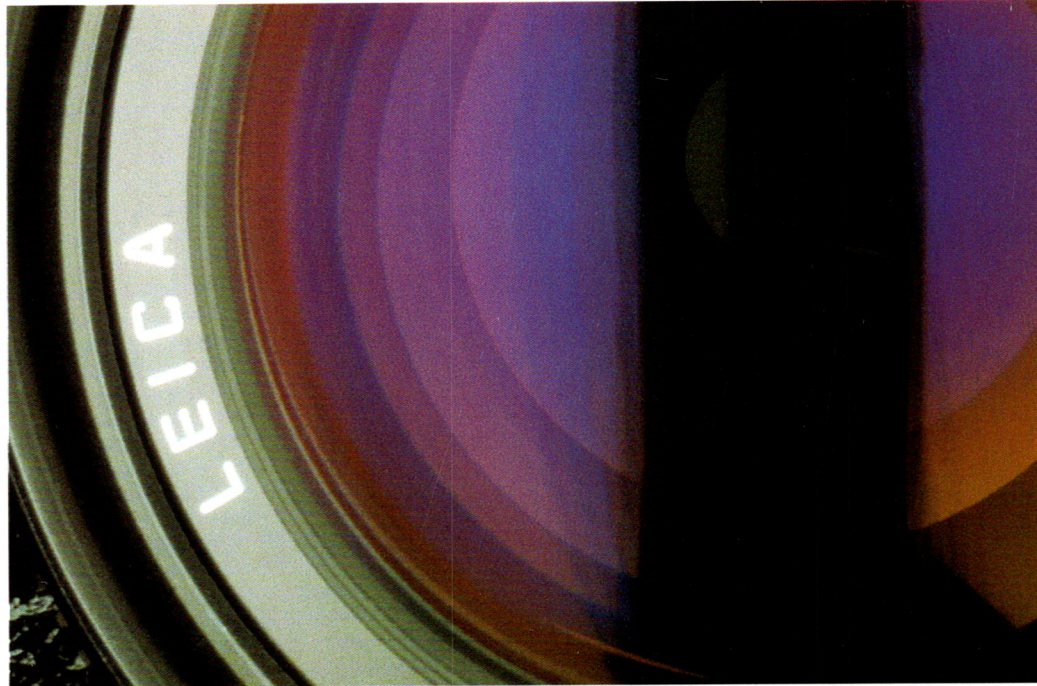




LEICA

Leica. The Program



Fascination and Precision



Dear friends of the House of Leica!

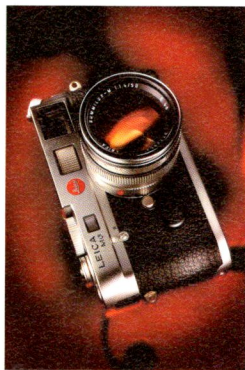
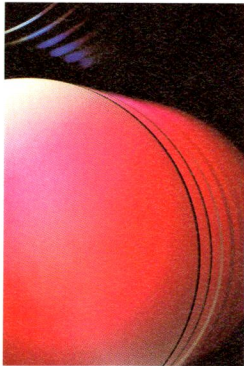
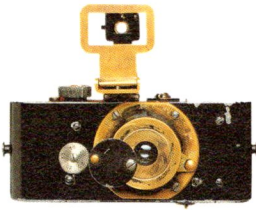
Once again – as it has already happened so many times during this century – there is a new product from Leica, except that this time it is not a camera, projector or binocular, but printed paper. Very special printed paper: for the first time in the history of our company we are publishing a General Brochure. That in itself would be nothing unusual if it merely involved an overview, a quick description of the products offered by a renowned manufacturer. Instead, what's behind the title "Leica. The Program" is far more than a listing of products; it is the philosophy, art, knowledge and history of a highly specialized field: state-of-the-art optical performance.

Leica has dedicated itself to this field from the very beginning. The results that we have achieved with this specialization, with this concentration, that is the subject of this brochure. You will discover how we think and how we act, how we go about solving problems

and how we pursue our objective of always working at the very limits of what is technically feasible. You will become familiar with our products, also from the inside out, and it will become easier for you to understand why they have gained cult status all over the world. If you already know our cameras and lenses, you will discover that Leica binoculars, spotting scopes and projectors are manufactured with the same care and precision – and vice versa.

There is something else that we hope for – that you will become motivated in the future to see the world through eyes from Leica. Just as countless photographers, explorers and friends of nature, masters of their fields, be they dedicated amateurs or highly skilled professionals, have already done. In this spirit, we wish you fascinating and stimulating reading.

Leica Camera AG



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 ABOUT LEICA


 LEICA OPTICS


 M-SYSTEM


 R-SYSTEM


 COMPACT
CAMERAS

 PROJECTORS

 BINOCULARS

 SPOTTING
SCOPES

 DIGITAL
IMAGING

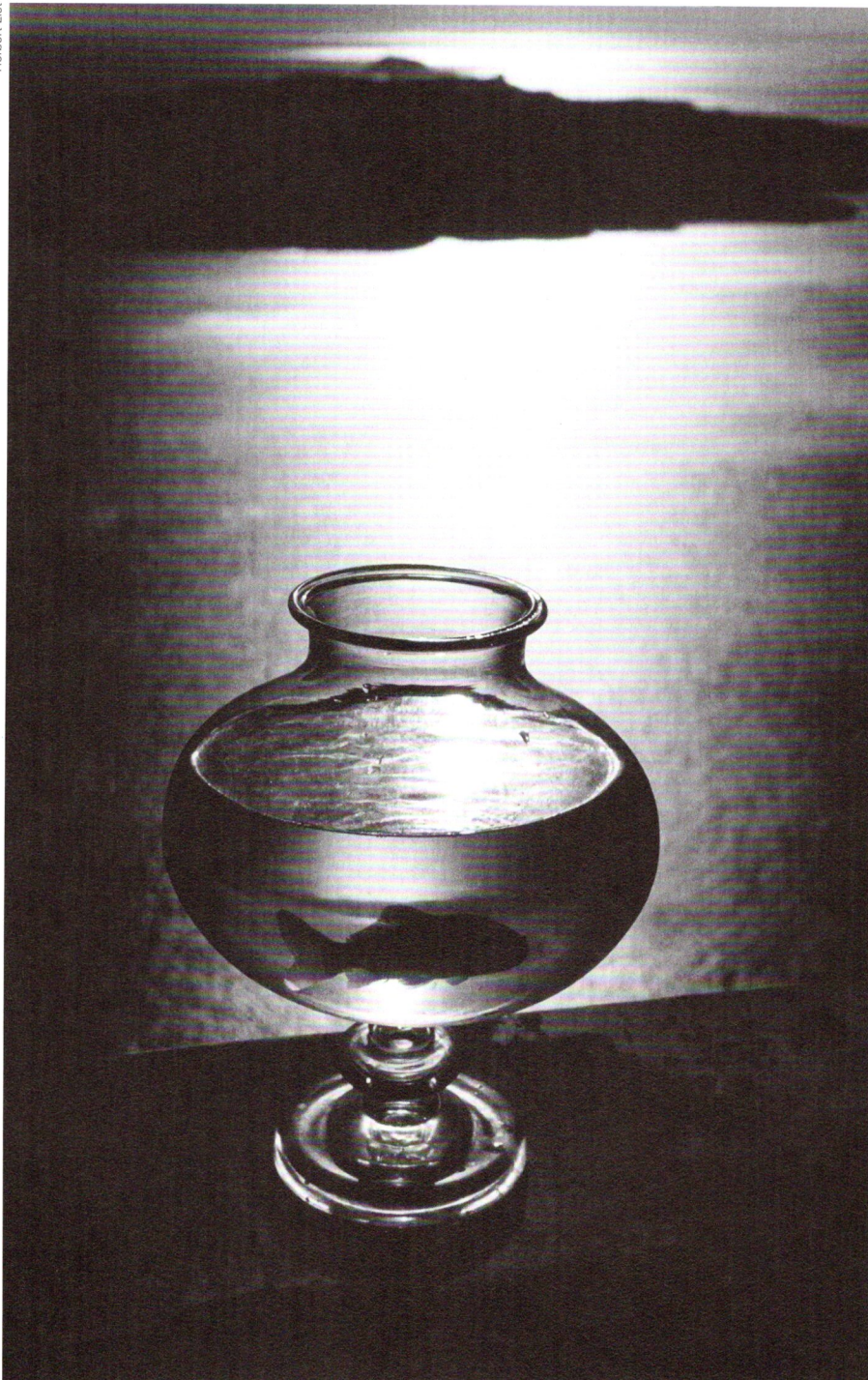
 TECHNICAL
DATA

 CUSTOMER
SERVICE

About the myth of a legendary world brand

Leica! All over the world this brand name evokes an image of pioneering achievements in photography and of the uncompromising pursuit of the highest standards of quality. Well over 100 years of tradition in precision manufacturing and countless innovations and inventions have steadily reinforced this world-wide reputation.

It was with the invention of the Leica camera in particular that our company had a major impact on the history of photography. And as it was so often the case with ingenious inventions, the original idea was simple and logical: small negatives – large pictures. Oskar Barnack, who was the head of design and development at Leitz in Wetzlar, was an eager photographer who had long dreamed of a handy camera as an alternative to the heavy plate cameras of that era, the likes of which he had all too often laboriously carried to interesting picture spots. That motivated him to build a small experimental camera body designed to use 35 mm motion picture negative film instead of heavy glass plates, and he simply doubled the standard motion picture frame size to arrive at the format of 24 x 36 mm. The Ur-LEICA was born! A number of years later it went into series production as the LEICA (LEICA = LEItz + CAmera). Its handy size permitted fast, often unobserved photographs from virtually any position and it allowed the photographer to blend into the surroundings. The basic tools for the now emerging photojournalism had been created and with them, an entirely new picture aesthetic. Sustaining a constant flow of outstanding performances in the design and manufacture of Leica products required an uncompromising emphasis on quality. This premise evolved into a



From the book "75 Years of Leica Photography".

complete high-performance system that encompasses the original photograph (cameras and lenses), reproduction (projectors) and observation (binoculars and spotting scopes), as well as today's demanding digital photography. As a brand with world-wide stature, Leica creditably elicits the high respect associated with the designation "Made in Germany". Because our company is uncompromisingly dedicated to the quest for better pictures – and reliably meeting the highest demands of its clients. That is how Leica, like no other camera, became a quality brand that attracted a very special sympathy,



The Eisenmarkt square in Wetzlar circa 1914. Photograph taken by Oskar Barnack with the Ur-LEICA.

intense loyalty and identification among dedicated amateur as well as professional photographers. This in turn makes us strive always to satisfy the

high expectations of our clients unstintingly and to continue operating at the highest levels of performance in the future.

The chronology of the Leica System.

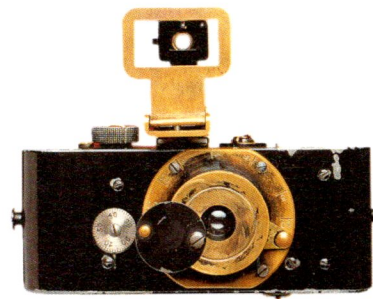
A success story.

1913 Oskar Barnack works on the design of a camera for 35 mm motion picture film. The result materializes early in 1914 with the legendary "Ur-LEICA", vindicating the concept "small negative – large pictures".

1914–1925 "Barnack's camera" is patented and later goes into production. It is introduced to a broad public at the 1925 Leipzig Spring Fair.

1926 Leitz introduces the first 35 mm still projector.

1930 The Leica receives a threaded lens flange for interchangeable lenses; The 50 mm f/2.5 Hektor sets new speed record.



1932 The LEICA II or D with a built-in, coupled rangefinder is introduced.

1936 Another milestone in lens speed: the 50 mm f/1.5 Xenon.

1954 The LEICA M3 with its bayonet lens mount heralds a new era.

1964 The first single lens reflex camera from Leitz is announced.

1966 The first series-produced lens with an aspherical surface is presented: the 50 mm Noctilux with the sensational speed of f/1.2.

1976 The first automatic, electronically controlled camera from Leitz is introduced: the LEICA R3.

1988 Leica announces the purely mechanical single lens reflex camera LEICA R6.

1988–1998 Approximately 20 mostly spectacular new lenses are designed at short intervals in the new Leica plant in Solms. Aspheric technology is refined and numerous mechanical improvements are implemented.

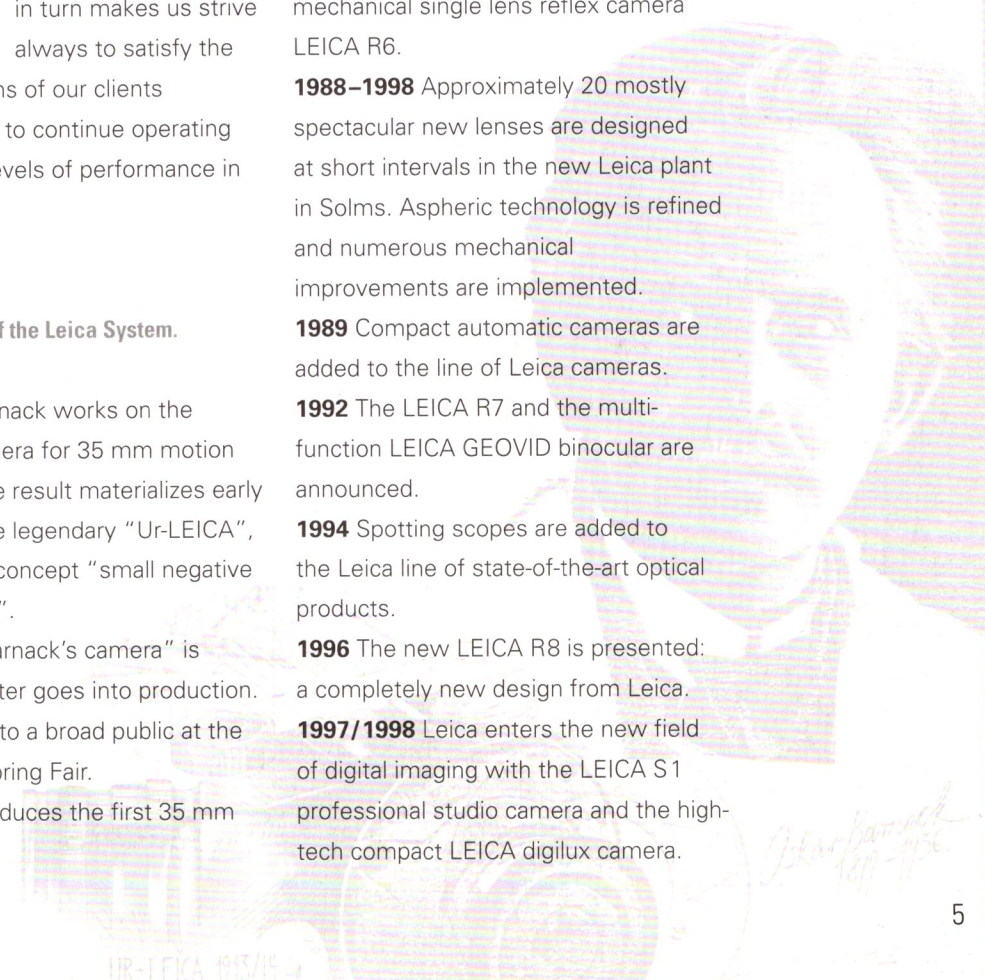
1989 Compact automatic cameras are added to the line of Leica cameras.

1992 The LEICA R7 and the multi-function LEICA GEOVID binocular are announced.

1994 Spotting scopes are added to the Leica line of state-of-the-art optical products.

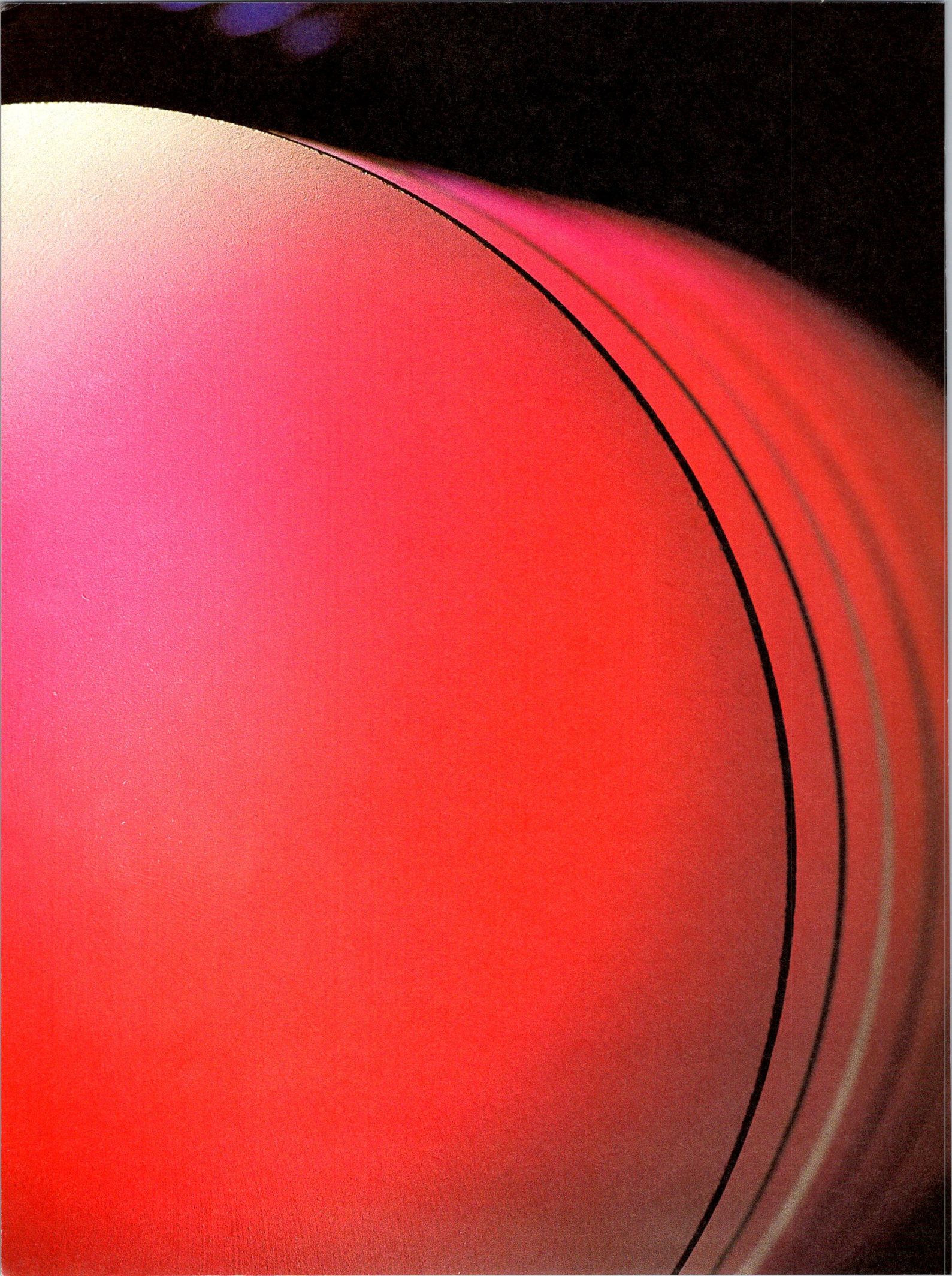
1996 The new LEICA R8 is presented: a completely new design from Leica.

1997/1998 Leica enters the new field of digital imaging with the LEICA S1 professional studio camera and the high-tech compact LEICA digilux camera.



UR-LEICA 1913/14

Oskar Barnack 1891-1950



About state-of-the-art optical performance

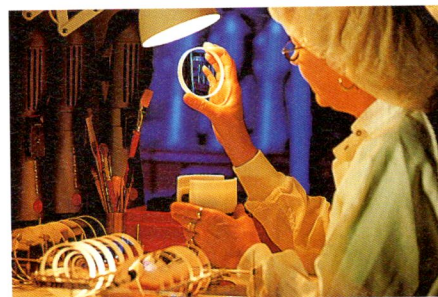
Nearly 150 years of experience in optics and in precision mechanisms, highly specialized technology, the use of high-grade materials and the dedication and skills of our employees – they created the world-wide reputation of the name Leica. And they continue to produce superb products.

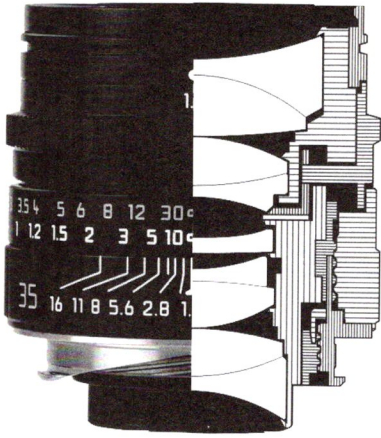


The result of high precision optical and mechanical work: high-grade Leica lenses with extremely accurately polished surfaces.

The rigid quality demand on our products governs their design and the selection of materials. It extends to the sophisticated, extremely precise manufacturing procedures and it reaches its climax in the strict final inspection. A major component of this sequence is the meticulous, dedicated manual work of our employees as well as the application of the most advanced technologies. We strive to provide our clients with the best possible products for their respective special fields of application. And Leica clients can always rest in the knowledge that these products distinguish themselves by their dependable precision mechanical construction, their longevity and an optical performance that reaches the very limits of what is technically possible. This remarkable synthesis of dependability, value retention and optical perfection earned world-wide prestige for the name Leica – making our cameras and lenses the choice of the great names in photography. From the very beginning, we have always placed conscientious emphasis on

achieving our high standards in the design of our lenses by means of state-of-the-art optical computations. In these computations, we are guided by the greatest possible benefit to the user, and to this end we have long been employing automated proprietary Leica electronic data processing programs. We began using electronic data processing methods for optimizing our lens computations in the fifties – the first lens manufacturer in the world to do so. Legendary lenses like the ELMAR or the SUMMICRON were not least the result of continuously perfected Leica optical computation procedures. Our stringent care already begins with the choice of the materials for our lenses. The glasses for some of our lenses are even produced according to proprietary Leica formulas. A judicious amount of meticulous craftsmanship transforms an innocuous raw disc of glass into an extremely accurately polished lens element.





High precision in positioning the lens elements and in fabricating the focusing mechanisms of a Leica lens: a cross-section of the 35 mm f/1.4 SUMMILUX-M ASPH.

APO lenses of Leica caliber

The proverbial image quality of Leica lenses can only be achieved when existing physical "residual aberrations" are largely eliminated. One of these aberrations results from the fact that different color components of light are refracted at different angles as they pass through a lens: blue rays more so than red rays. This is less of a problem with short focal lengths, and therefore it is correspondingly easier to correct. But since this aberration is magnified at the same rate as the subject itself, it becomes progressively more evident as the focal length is increased. Therefore, in order to create Leica telephoto lenses with the highest imaging quality, Leica lens designers correct this "chromatic aberration" with the objective of recombining the entire color spectrum at a common focal point. This "apochromatic correction" is accomplished by the utilization of special glasses with high indices of

refraction and with glasses with unusual low color dispersion. At Leica, only lenses that were corrected in accordance with this elaborate method may bear the prefix "APO". The optical results must be present in Leica APO lenses without any limitations, beginning at full aperture and effective across the entire image area.

Peak optical performance with aspherical lenses

Other Leica lenses are engraved with the suffix "ASPH". This abbreviation stands for "aspherical", which means that one or more glass lens elements with aspherical surfaces were used to further enhance optical performance. In other words, lens elements whose surfaces are not spherical. With spherical lens elements, light rays are refracted (i.e. bent) more sharply near the edges than they are near the optical axis of the lens.

stringent demands are now increasingly being met by the utilization of aspherical lenses. They provide us with greater freedom for the correction of image aberrations and for enhancing the sharpness performance of a lens. Aspherical lenses enable us, in a manner of speaking, to achieve optical qualities "to order". However, because the shape of their surface curvature has to be generated with the utmost precision, their fabrication is extremely difficult. In order to conform to rigid Leica quality standards, series production can only be achieved at substantial expense. With our current know-how, we are now able to generate aspherical surfaces on many types of optical glass. Today, two different technologies are used in the fabrication

of aspheric lens elements: precision molding of raw glass blanks and CNC-controlled automatic grinding and polishing of glass lens elements.

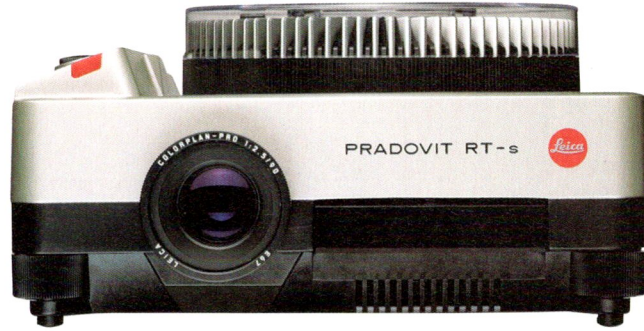


This results in reduced image sharpness. When very high image quality is required in fast large-aperture lenses, the correction of image aberrations places stringent demands on the optical system. At Leica Camera AG these

Fabrication of lenses – Leica-like

Highly specialized manufacturing processes and meticulous care in the fabrication of lens elements lead to the high level of quality for which Leica lenses are so renowned. From grinding

to centering, from coating, polishing and mounting all the way to the final assembly of the complete lens, every step is subject to our strict policies regarding utmost precision and the best possible technological standard. Our special Leica know-how, for instance, enables us to perform particularly meticulous grinding of delicate types of glass, such as those needed primarily for apochromatically corrected lenses. And Leica is well equipped with all the technical requirements for immediately continuing the fabrication process of delicate glass types all the way to their final coating in order to prevent any corrosion effects. We wish to draw special attention to the extremely accurate centering of the individual lens elements and of the complete optical system as well. That is because the degree of accuracy that is required at this stage is of the utmost importance to the uniformity of sharpness across the entire image. Once a Leica lens element has been precisely "honed" to the prescribed shape, it is subjected to a complex coating process. Several layers of different metallic oxides and fluorides are vaporized onto the surfaces of lens elements in high vacuum chambers. Often, in order to achieve the utmost surface quality, they are also bombarded with rare gas ions during this process.



High quality Leica projection lenses ensure the superb optical performance of PRADOVIT slide projectors.

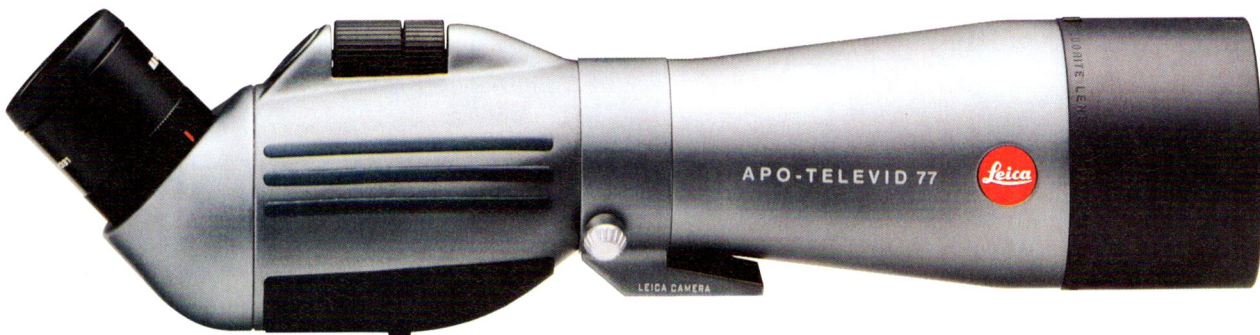
The results are remarkable: disturbing reflections that would cause lower light transmission and unsharpness are largely neutralized; in addition, the lens is now scratch-resistant and effectively protected against humidity in the air. To ensure that the optical performance capability of lenses fabricated with such painstaking care is used to its full potential, Leica applies extremely precise assembly procedures and extremely tight tolerances in the focusing mechanisms of the lens.

Leica quality in many forms

With such extraordinary dedication to the highest possible optical performance, it is no wonder that knowledgeable individuals and demanding photographers all over the world have such high regards for Leica optics. Not only for the famous 35 mm cameras, but equally for slide projectors, binoculars and spotting scopes. With

Leica products we offer our clients not only the highest quality, but always an extensive selection for different fields of application as well. Our new PRADOVIT RT slide projector, for instance, can be fitted with any one of ten new superb projection lenses to suit any application. Extremely precise manufacturing processes and continuous final quality controls enabled Leica to achieve its leading position around the world, along with frequent top ratings from the trade and from numerous test organizations. But the most important test that our cameras, projectors, binoculars and spotting scopes have to pass is of a different sort – it is the hard, daily use by our clients. It is in this particular test that we strive for them always to receive top recognition.

The sophisticated optics in LEICA APO-TELEVID high-performance spotting scopes deliver an extremely bright, contrasty and razor-sharp image.





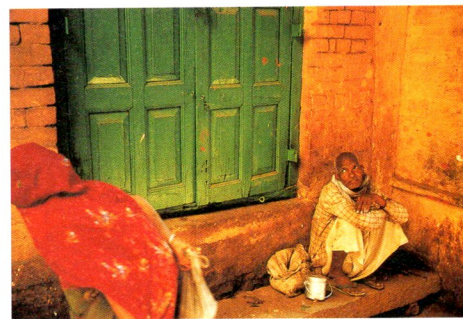
New possibilities with the classic LEICA M6

The names of great photographers of our time are closely associated with LEICA M cameras for compelling reasons. Because this classic among 35 mm cameras – now refined even further – never followed fleeting trends. Instead, it was always designed to provide the greatest possible freedom for creative picture composition.



The new LEICA M6 TTL rangefinder system camera continues the legend of the Ur-LEICA of 1914: conceived with the same passionate dedication and fabricated with the same skilled craftsmanship. And perfected with the very latest modern know-how. With the LEICA M6, we have deliberately designed a camera that almost completely dispenses with automatic functions and electronic niceties. There were important reasons for that decision: While sophisticated automatic controls make certain functions more practical and more convenient, they also limit your creative potential. The LEICA M6, on the other hand, is designed to let you apply your personal creativity without constraints. This individual creative ability in particular, is essential for transforming light, color and shapes into an expressive picture. It is for that reason that in the LEICA M6 we created a camera that represents our proven philosophy in its purest form: concentration on the essentials – for the unrestricted expression of your own personal creativity. Man should control the camera – not the other way around. In order to keep the LEICA M6 up-to-date with current needs, we have been improving it continuously and judiciously. The latest refinement of the LEICA M6

is TTL (through-the-lens) flash exposure metering, so that you can also enjoy greater creative freedom with flash photography. A larger shutter speed dial provides more convenient handling. And you also have the choice of a LEICA M6 version with a viewfinder image that is nearly 20% larger (0.85x magnification), which gives you additional advantages in composing your images, especially when working with lenses with long focal lengths. Especially when you wish to take spontaneous and unobserved pictures, there is nothing as effective as the new LEICA M6 TTL. When you work with a single lens reflex camera, you would operate at a distance from the subject, and would preferably move away even a little further. Not so with the LEICA M6 TTL. It encourages you to be up close to your subject. The purely mechanical shutter works nearly silent and independent of batteries. You remain inconspicuous and discreet right in the middle of the goings-on. And furthermore: you yourself become part of the action. This enables you to capture images which are possible with virtually no other camera.

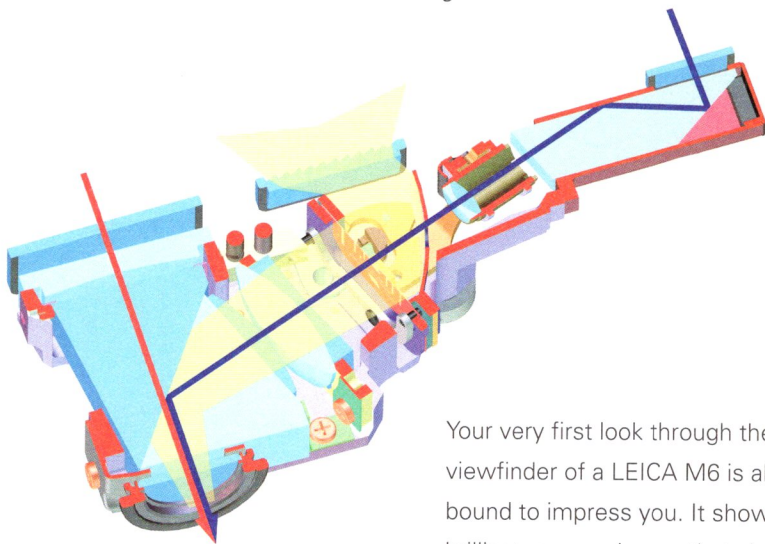


Axel Nordmeier

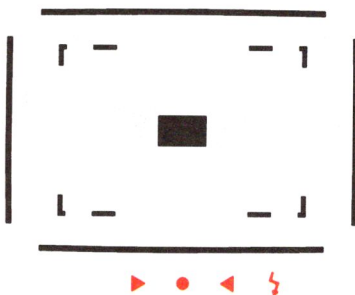
With the LEICA M6 you remain inconspicuous in the midst of activities.

The right setting for your subject

The viewfinder of the LEICA M6 clearly displays all the information you need for total control of focusing and exposure metering. Unsurpassed precision gives you the assurance of immediately being able to find the correct settings in any situation. Even under difficult light conditions.



The rangefinder of the LEICA M6 consists of more than 100 individual parts. It is far more complex to assemble than the finder of a single lens reflex camera.



The light balance serves to establish the correct combination of shutter speed and aperture and it informs you of the status of the flash unit by means of light-emitting diodes (LEDs) in the viewfinder.



Reflects light onto the silicon photo diode in the upper interior of the camera for accurate exposure determination: the white spot on the shutter curtain.

Your very first look through the viewfinder of a LEICA M6 is already bound to impress you. It shows a bright, brilliant, snappy image that always retains the same size. The surroundings of your subject are always clearly visible: a significant advantage for maintaining an overview of the action, especially with fast-moving subjects. When a lens is attached to the camera, a brightline frame that corresponds to the focal length of that lens is automatically activated in the viewfinder. These bright and clearly visible brightline frames show the area of the subject covered by the respective lenses. But the different brightline frames can also be brought into view manually, without changing lenses, by means of the frame selector lever. So that you can quickly and conveniently determine which lens will give you the most effective cropping of your subject.

Pinpoint focusing

Experts consider the long-base rangefinder of the LEICA M6 to be a masterpiece. While the focal length

and the aperture of the lens being used determine the measuring base in a single lens reflex system, on the LEICA M6 it always remains unchanged – regardless of the lens that happens to be attached. This permits pinpoint-accurate focusing even with low-contrast subjects that no other 35 mm camera can provide. With short focal length lenses, the focusing accuracy of the LEICA M6 is far greater than that of a single lens reflex camera. With the combination split-image and coincidence rangefinder, you can place pinpoint sharpness exactly where you want it. Quickly and effectively. Even under extremely poor light conditions.

Selective exposure metering

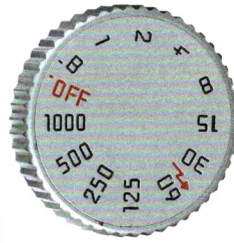
Back lighting, grazing lateral light, spot lighting. Outstanding photographs often involve unusual lighting situations, and that is precisely when accurate exposure is of decisive importance. Selective through-the-lens exposure metering with the LEICA M6 gives you the assurance of rendering every subject in the right light. A silicon photodiode positioned behind a collector lens measures the light reflected by a white spot on the focal plane shutter curtain. Thanks to its extraordinarily high sensitivity, the built-in exposure meter of the LEICA M6 measures the light conditions of any situation with great accuracy – even in extremely poor light.

The glow of a single candle already suffices.

Easy exposure setting

The viewfinder provides you with an overview of the necessary indicators for setting the exposure. The exposure meter is activated by gently depressing the shutter release button, so that you can conveniently use the light balance to

set the right combination of shutter speed and aperture: Two triangular light emitting diodes indicate the direction in which you must turn the aperture ring or the shutter speed dial. A round light emitting diode in the center lights up to signal when the correct setting is made.

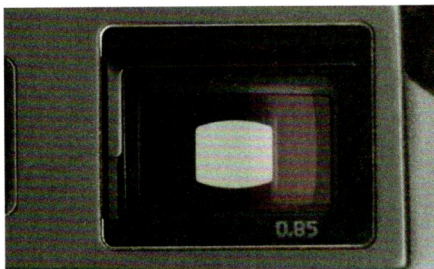


The new shutter speed dial of the LEICA M6

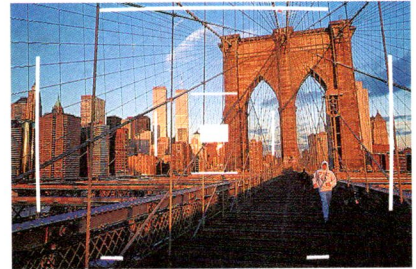
- Enlarged shutter speed dial: faster and more convenient setting of shutter speeds.
- New "OFF" switch: prevents the activation of the exposure meter while the camera is being transported.
- The shutter speed dial now turns in a direction that corresponds to the direction indicated by the triangular light emitting diodes of the exposure meter that are visible in the viewfinder. When the LED points to the right, you turn the shutter speed to the right, and vice-versa – just like you do on LEICA R cameras.

The alternative with the larger viewfinder image

With the LEICA M6 you have the choice of two viewfinder options: one with the accustomed 0.72x magnification – and now a new one with an 0.85x viewfinder magnification. If you frequently use lenses with longer focal lengths, you will be especially pleased with this new version.



The comparison makes it easy to understand: Not only the subject itself, but also the brightline frames and the rangefinder field that are visible in the viewfinder of the LEICA M6 0.85x are enlarged by nearly 20%. And the expansion of the effective measuring base of the rangefinder from 49.9 mm to 59.1 mm increased the focusing accuracy even further. A noticeable plus when lenses with large apertures or with long focal lengths are being used.



0.85x viewfinder magnification

0.72x viewfinder magnification

New: TTL flash exposure metering with the LEICA M6

Metered flash exposures with an M-camera? But of course, and even better with the new LEICA M6 TTL! In combination with the new LEICA SF 20 flash unit or other SCA-3000-compatible flash units, flash exposures with an M-camera are, for the first time, metered where the picture is actually recorded: on the surface of the film.



“My pictures are spontaneous, unposed, direct.

Even under poor light conditions. With the LEICA SF 20 flash unit, I can react quickly, it is handy, lightweight and uncomplicated. As small as it is, its performance is impressive.”

Maik Scharfscheer, Germany

LEICA M cameras have long distinguished themselves for their superior focusing in poor light and in low contrast situations. But even when you use ultra high speed lenses, there are always situations when you need supplementary lighting. The new LEICA M6 TTL optimally combines the advantages of super-imposed image rangefinding for accurate focusing in low ambient light with the precise control of the flash exposure by means of TTL flash exposure metering.



Simple and precise:

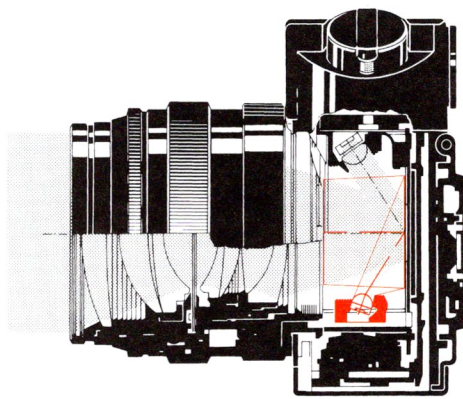
TTL flash exposure control

Fill-in flash in low light situations? Placing accents in the foreground with light? Record every subject in darkened rooms with confidence? With the TTL flash exposure control of the new LEICA M6 TTL you have the best prerequisite for creating impressive photographs as you envision them. Confidently. Even in

difficult light conditions. Because vibration is extremely low when the shutter is released, you obtain evenly exposed photographs with the LEICA M6 TTL, even with the longer synchronized flash exposure times, and the natural illumination of the background blends harmoniously with the foreground that has been enhanced with fill-in flash. And deliberate control of the flash output of the LEICA SF 20 – or of other system-compatible flash units – creates additional creative opportunities for you. Especially in situations where you must add fill-in flash in spite of high speed lenses, the advantages of the super-imposed image rangefinder and TTL flash exposure metering on the new LEICA M6 TTL become clearly evident.

LEICA SF 20 flash unit

A LEICA M camera should be used with a flash unit whose quality, design and functionality are tailored perfectly to that camera. The compact LEICA SF 20 is a high quality electronic flash unit that completely satisfies those requirements. Its typical Leica design harmonizes beautifully with the LEICA M6 TTL and also with the LEICA R8. It can be used with TTL flash exposure control on both cameras without additional adapters. Also for automatic flash exposure control with all LEICA M and R cameras with hot shoe contacts – and of course with the earlier version of the LEICA M6. With the LEICA SF 20



With its built-in additional photodiode, the new LEICA M6 now features TTL exposure metering.

you can apply your own creative control during the preparation for flash exposures. Deliberate over- and under-exposures up to three aperture stops are possible (override). All control elements on the LEICA SF 20 are arranged in a clear, logical and convenient manner. And there is a display on the back cover – which can be illuminated – that provides an overview of all the information that is relevant to the picture.

Plus points for flash photography with the new LEICA M6 TTL

- Accurate focusing in poor light and low contrast situations.
- Reduced danger of camera shake with long synchronized flash exposure times because of negligible vibration when the shutter is released.
- Balanced lighting mood between the background (available continuous illumination) and the foreground (lightened with fill-in flash).
- “Frozen subject”: At the instant when the picture is taken, the subject that is illuminated by the flash can be evaluated in the viewfinder: Has the person turned? Were the eyes closed?
- Was the shutter set for the wrong speed for flash synchronization? The new LEICA M6 TTL alerts you to incorrect flash sync speeds by means of the flash-ready display in the viewfinder. As of now, half blackened flash pictures are a thing of the past.
- Controlled application of flash illumination: The operating concept of the new LEICA M6 TTL gives you creative latitude with the control of the flash unit.
- Flash techniques for the professional: Most photographers deliberately use longer synchronized shutter speeds for reportage photography in order to incorporate ambient lighting into the picture composition.

Paragon of precision and dependability

Selected high-grade materials, extremely tight tolerances and strict quality control at every step of manufacture of the LEICA M6 TTL ensure flawless precision, the highest dependability and decades-long value retention.



With discreet and elegantly classic exterior styling, the LEICA M6 body contains a myriad of optical and mechanical components of stringent precision.

Robust mechanisms, whisper-quiet shutter release

Impressive scenes can only be captured if the camera is ready for action at all times. Especially in unforeseen situations. The new LEICA M6 TTL offers the

best premises for this purpose. It is small, handy and lightweight. And it can be made ready for shooting quickly, without attracting much attention. Its controls are arranged ergonomically and they can be operated while wearing gloves (which is practical, for instance, while skiing). Thanks to a tactile marking, lenses can be changed quite instinctively, even in the dark.

And you are likely to be especially pleased with the whisper-quiet sound of the LEICA M6 shutter when you need to take pictures inconspicuously. The hinged mirror that flips up and the

spring-loaded iris diaphragm that are needed for single lens reflex camera operation are absent. This, furthermore, allows the shutter to be released without vibrations, enabling you to take photographs with considerably slower shutter speeds while still holding the camera by hand. With the real-time shutter release of the LEICA M6 – which is nearly 10 times as fast as that of a single lens reflex camera – you can always capture that “decisive moment” in real time. And since you advance the film manually, you don’t have to endure the disturbing buzz of the automatic film advance after you release the shutter.

Quality “made by Leica”

With a LEICA M6 you can immediately sense the exquisite precision with which it was manufactured. And with the selection of raw materials, only the very



best will suffice. When you hold the new LEICA M6 TTL in your hands for the first time, it will have already passed its toughest inspections and tests.

- For instance: longevity tests. Even after you have exposed several thousand films with your LEICA M6 – the shutter will operate as accurately and reliably as it did on the first day.
- In vibration tests, the LEICA M6 has to prove its extraordinary shock- and impact resistance.
- In climate tests, the LEICA M6 is exposed to repeated extreme

temperature fluctuations, after which it must still function flawlessly. The “made by Leica” standard of quality is present in all the details of this camera. For example, the LEICA M6 is not merely lacquered, instead it is plated with black or silver chrome in accordance with a proprietary process developed by Leica especially for this purpose. This robust camera will not let you down. The camera body as well as all LEICA M lenses were built for heavy duty use.

Plus points of the LEICA M system at a glance

- The LEICA M system stands for reliable performance in all situations, for value retention and for longevity.
- The combined range- and viewfinder is always bright and brilliant and it clearly shows the surroundings of the subject. Even dynamic subjects can quickly be framed in the picture.
- The long-base rangefinder with its constant measuring base permits fast pinpoint focusing even in low contrast situations.
- Selective through-the-lens exposure metering guarantees accurate results even in poor light conditions.
- The new TTL flash exposure metering feature expands the possibilities of LEICA M photography and it makes flash photography more accurate and convenient.
- The mechanical shutter release is gentle and quiet, and it is vibration-free: ideal qualities for inconspicuous photography.
- There is no delay in the release of the shutter, so that “decisive moments” can be captured in real time.
- The robust precision mechanisms operate extremely reliable, even under the harshest conditions.
- With its handy shape, the LEICA M6 is an ideal companion – for both serious amateur- and professional photographers.
- Leica offers a large assortment of high performance lenses for the LEICA M6, with focal lengths ranging from 21 to 135 mm and speeds as fast as f/1. Excellent sharpness, extraordinarily high contrast performance and strictly neutral color rendition are their outstanding characteristics.
- Leica customer service and more than 100 Leica representatives all over the world, as well as a large network of authorized Leica dealers ensure qualified Leica service most anywhere.



Loading and advancing the film with Leica quality: Guiding elements and a hinged back cover position the film with a high degree of accuracy.

Everything in view: wide-angle lenses

To gain an overview in the midst of an event. To emphasize the foreground dramatically or to create a receding background: wide-angle lenses give the subject more space, more expanse. They create distance, they enhance the dynamics of the picture. And they also bring greater depth of field.



Jane Evelyn Atwood

35 mm f/2 SUMMICRON-M ASPH.

Excellent sharpness and contrast rendition and high resolving power are the benefits of this new computation, which gives this lens outstanding imaging performance across the entire focusing range. Its versatility and all-around performance makes this a world-class lens in the high-speed wide-angle category. Equipped with the 35 mm f/2 SUMMICRON-M ASPH. lens, the LEICA M becomes an elegant compact camera. This lens is also available in a silver chrome plated version.



"My M6 with a 35 mm lens is always with me, ready for whenever I feel like making a picture. It will give sharp images even in poor lighting because I can hold my breath and work at extremely slow speeds with no camera movement. These pictures seem more luminous than those done in similar situations with other cameras."

Jane Evelyn Atwood, France

21 mm f/2.8 ELMARIT-M ASPH.

Uniform sharpness and minimal distortion across the entire image area, even at full aperture, distinguish this lens. This was achieved with, among other factors, a lens element with an aspherical surface. The lens makes highly dramatic effects possible, like monumental foregrounds, strongly receding backgrounds and a wide horizon. With this lens, focusing and exposure metering are performed by looking through the camera's viewfinder, whereas the actual field coverage is checked by means of an accessory brilliant viewfinder.



28 mm f/2.8 ELMARIT-M

A very popular wide-angle lens that is often used for reportage photography in confined locations, but which is also excellent for architectural and landscape photography. Its outstanding characteristics are the good contrast and detail rendition. Starting with this focal length, there is a brightline frame in the viewfinder of the LEICA M6 for checking the field of view (with the new LEICA M6 TTL 0.85, an accessory brilliant viewfinder is required for this purpose).



35 mm f/1.4 SUMMILUX-M ASPH.

The focal length makes this an all-round versatile lens – yet its high speed makes it an exceptional lens with ample reserves for any situation. The complex optical design with an aspherical lens surface produces an image quality at full aperture that is unique for compact wide-angle lenses. Available in anodized black, silver chrome or titanium finishes.



24 mm f/2.8 ELMARIT-M ASPH.

This special lens design combines one aspherical lens surface, one lens element with anomalous partial dispersion and two other lens elements made of optical glasses with high indices of refraction to give this compact unit outstanding contrast- and detail rendition – even at full aperture. An accessory brilliant viewfinder is needed for checking the field of view, whereas focusing and

exposure metering are performed through the camera's own viewfinder. This high-performance lens also makes it possible to work efficiently in cramped quarters. It adds a more dynamic feeling to close-up pictures and it gives landscape photographs significantly more depth. Available in black anodized finish and now also in a silver chrome-plated version.



Three lenses in one: the 28-35-50 mm f/4 LEICA TRI-ELMAR-M ASPH.

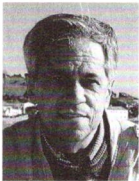


With the versatile LEICA TRI-ELMAR-M, Leica designers succeeded in combining the M-photographer's three most popular focal lengths into a single, extremely compact lens. And this with good to very good imaging performance at all three focal lengths.



Luis Castañeda

Focal length set at 35 mm



"I travel a lot, and travel photography is a never-ending source for many of my best photographs that are favored by picture agencies. The TRI-ELMAR is one of my most important lenses for this job. Not only because it is so light and compact, but also because of its extremely good performance, both mechanical and optical. With this lens on my LEICA M6 I am able to cover most any photographic situation during my foreign travels."

Luis Castañeda, USA

28-35-50 mm f/4 LEICA TRI-ELMAR-M ASPH.

This new universal lens is undoubtedly another milestone in the history of LEICA M photography. Because of its imaging performance, its versatility, its compact design and its convenient handling, the TRI-ELMAR-M is perfect for making snapshots with professional quality.



New!



Focal length set at 50 mm

Confident, convenient handling

You select the angle of view confidently and quickly by means of a short twist. The focal length ring engages noticeably in the three click stops for the respective focal length settings. Focusing and focal length selection are performed with two separate rings. The brightline frame that corresponds to the focal length that has been selected appears automatically in the viewfinder. A rigid lens hood is an integral part of the lens mount. The lens is supplied in an elegant cushioned case made of fine high-grade leather. Weighing only 340 grams or 12 ounces, the functional TRI-ELMAR-M is so compact that it is just perfect for travel and leisure photography. And you will appreciate it all the more in situations when changing lenses would be awkward and time-consuming. When

a high aperture is not essential, the TRI-ELMAR-M is also an excellent tool for reportage photography.

High optical performance

A complex optical design assures this world innovation outstanding performance characteristics. Five of the total of eight lens elements are made of optical glasses with particularly high indices of refraction. In order to achieve high optical performance in such a compact lens, the TRI-ELMAR-M was designed with two aspherical lens surfaces. It produces images with excellent contrast and good detail rendition, even at full aperture, at all three focal length settings. Curvature of field and vignetting are so small that they are negligible in practical use. What is it that photographer Dieter W. Wehde said after he had subjected the LEICA TRI-ELMAR-M to a thorough field test?



“With its outstanding performance, the new TRI-ELMAR-M generates enthusiasm. I ask myself whether critics are allowed to become enthusiastic. My answer: They may, provided the enthusiasm comes from the heart.”



Focal length set at 28 mm

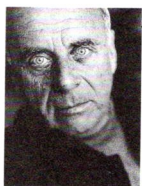
Designed and manufactured in Germany, the TRI-ELMAR-M consists of a total of eight lens elements. An aspherical lens surface in the first group of lens elements serves primarily for the reduction of distortion. Another aspherical lens surface is used for reducing monochromatic image aberrations to a minimum.

Universally useful: standard lenses

With their focal length of 50 mm, standard lenses are easy to use and very versatile at the same time. Because their angle of view and their perspective come closest to the viewing habits of the human eye.



Ralph Gibson



“The whole world is a stage... and only with a perfect sense of size relationships will the drama

become reality. Throughout the history of photography, more photographs were probably made with a Leica and a 50 mm lens than with any other combination. With the knowledge that everything would be covered by the viewfinder, I traveled all over the world with a 50 mm lens. This outstanding lens delivers optical precision and imparts a passionate ability to react spontaneously.”

Ralph Gibson, USA

50 mm f/1 NOCTILUX-M

The NOCTILUX-M is the world's first f/1 lens for 35 mm cameras that has been manufactured in series. Because of this extraordinary optical performance it is eminently suited not only for photography at twilight, but also for night photography without flash – the light of a single candle is already sufficient. It produces outstanding contrast rendition, so that barely noticeable color differences are faithfully separated and the finest structures of the subject

are resolved accurately, even under extremely unfavorable light conditions. The optical computation of this super-fast lens approaches the limits of what is physically possible. The NOCTILUX-M gives LEICA-M photography capabilities that are beyond the reach of other outfits.



50 mm f/1.4 SUMMILUX-M

An extremely fast standard lens that is used a great deal in reportage photography. Sharpness and contrast are still outstanding at full aperture. Its extraordinary speed of f/1.4 permits good shutter speeds even in poor light situations. This lens has remarkably neutral color rendition and accurate color differentiation. It is available in black anodized, silver chrome and titanium finishes.



50 mm f/2 SUMMICRON-M

In the category of high speed standard lenses, this handy universal lens has a world-wide reputation for the highest optical performance. With outstanding imaging quality even at the closest focusing range. It is available in black anodized finish and in silver chrome finish. With a built-in sliding lens hood.



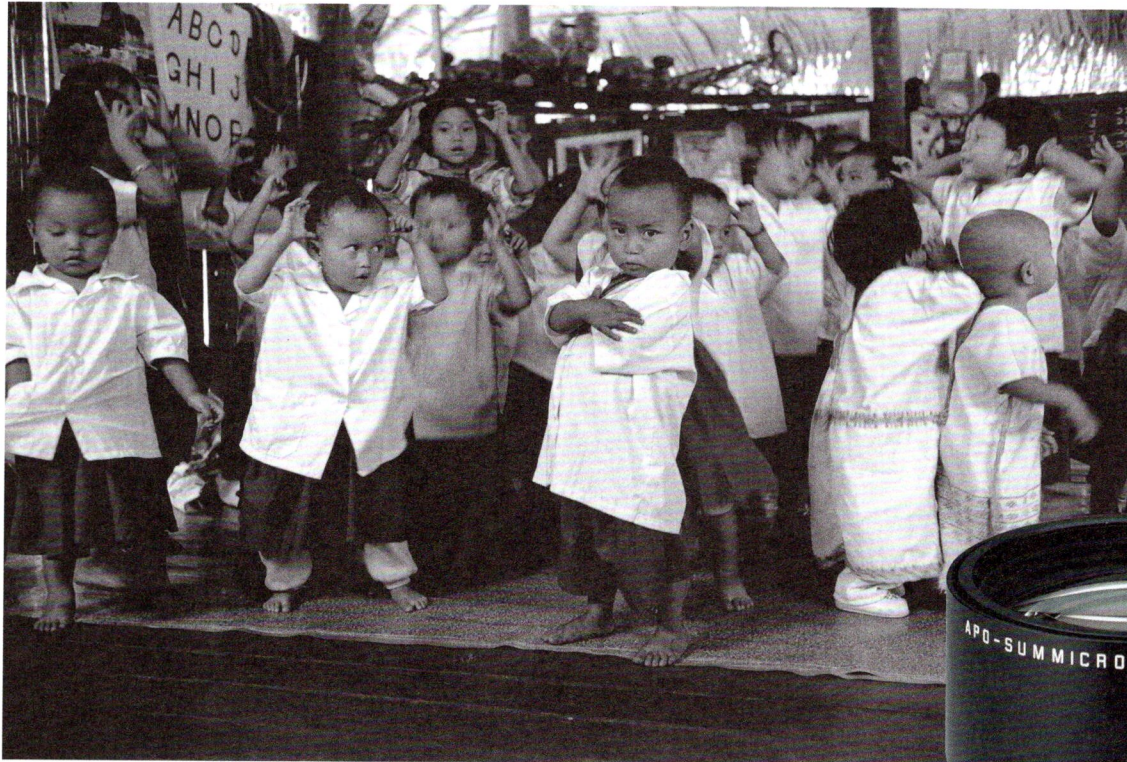
50 mm f/2.8 ELMAR-M

If compact dimensions and light weight are more important to you than high speed, then this classic universal lens is exactly right for you. The lens barrel can be collapsed into the camera body, making your LEICA M6 extra slim and handy. The utilization of optical glasses with high indices of refraction and a new optical computation produce an outstanding overall performance. Available in black anodized and silver chrome finishes.



Bridging distances: telephoto lenses

Telephoto lenses compress the impression of depth, they make distant subjects seem closer and they narrow the coverage of the subject. These effects are utilized when the surroundings of the subject are to be kept out of the picture. The reduced depth of field of lenses with long focal lengths is suitable for the creative manipulation of sharpness and unsharpness. New from Leica: telephoto lenses for the M system with APO quality.



Matthias Heng



"As a photojournalist, it is the philosophy of Matthias Heng "to work with people by means of the camera." With the inconspicuous and quiet LEICA M6 and a 90 mm lens he is able to capture unposed and fleeting moments that would all too often be lost in written texts."

Matthias Heng, Australia

90 mm f/2 APO-SUMMICRON-M ASPH.

A fast, newly computed high-performance lens for portraiture and photojournalism. Also excellent for quick snapshots when you want to take pictures inconspicuously from a distance. Its high speed permits relatively fast shutter speeds that prevent blurred images caused by camera motion. With an aspherical lens surface and APO-corrected quality,



this lens sets new standards in the category of short telephoto lenses. Built-in sliding lens hood. *Availability expected in the autumn of 1999.*

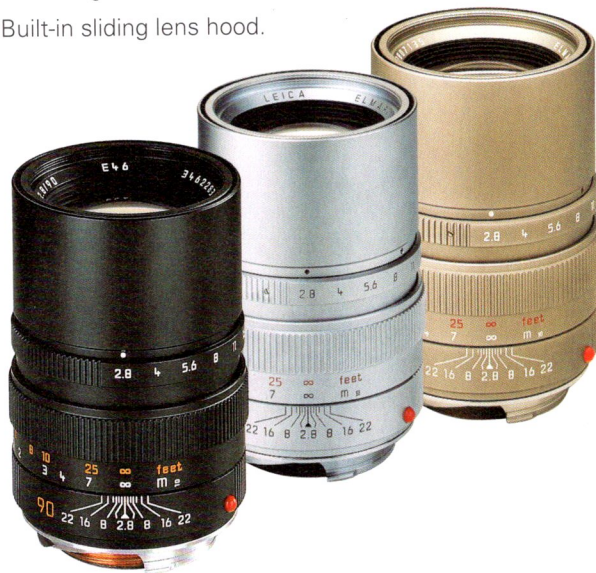


75 mm f/1.4 SUMMILUX-M

Extremely fast for a 75 mm lens, its f/1.4 speed makes this lens ideally suited for available light photography, particularly in portraiture and photojournalism. It is also an excellent lens for large contrasts in brightness that you might encounter in concerts, theaters or in a circus. Unique optical glasses and an optimized optical computation give this high-speed lens unexcelled performance characteristics. Among other features, experts especially value its great freedom from reflections and the delicate gradation of its tonal rendition. Built-in sliding lens hood.

90 mm f/2.8 ELMARIT-M

A compact universal lens with a medium focal length and very good contrast and sharpness performance, even at full aperture. Its black version weighs barely more than 400 grams or 14 ounces, and it is only slightly larger than a 50 mm lens. Thus it is an ideal lightweight alternative that you can always take along when you travel. With built-in sliding lens hood. Available in black, silver chrome and titanium finishes.



135 mm f/3.4 APO-TELYT-M

This new 135 mm telephoto lens for the M system is now being offered for the very first time with superb APO quality. It replaces the two previous M lenses of the same focal length (f/2.8 and f/4, respectively). The sharpness, contrast and resolving power of this unique lens are impressive, even at full aperture. Other plus points are its modest weight, its handiness, and its ease of operation. And it comes with a built-in sliding lens hood.

Overview of lenses for the LEICA M system

Lens designation	Focal length and speed in mm	Angle of view	Lens elements/groups	Smallest aperture	Focusing range in m	Smallest subject area in mm	Recommended filter size	Length in mm	Largest diameter in mm	Weight in grams	Order Number
ELMARIT-M ASPH.	21 f/2.8	92°	9/7	16	∞ - 0.7	696 x 1044	E 55	46	58	300	11 135
ELMARIT-M ASPH. silver chrome finish	21 f/2.8	92°	9/7	16	∞ - 0.7	696 x 1044	E 55	46	58	414	11 897
ELMARIT-M ASPH.	24 f/2.8	84°	7/5	16	∞ - 0.7	630 x 950	E 55	45	58	290	11 878
ELMARIT-M ASPH. silver chrome finish	24 f/2.8	84°	7/5	16	∞ - 0.7	630 x 950	E 55	45	58	388	11 898
ELMARIT-M	28 f/2.8	76°	8/7	22	∞ - 0.7	533 x 800	E 46	41.4	53	260	11 809
SUMMILUX-M ASPH.	35 f/1.4	64°	9/5	16	∞ - 0.7	420 x 630	E 46	46.2	53	250	11 874
SUMMILUX-M ASPH. silver chrome finish	35 f/1.4	64°	9/5	16	∞ - 0.7	420 x 630	E 46	46.2	53	415	11 883
SUMMILUX-M ASPH. titanium finish	35 f/1.4	64°	9/5	16	∞ - 0.7	420 x 630	E 46	46.2	53	415	11 859
SUMMICRON-M ASPH.	35 f/2	64°	7/5	16	∞ - 0.7	419 x 627	E 39	34.5	53	255	11 879
SUMMICRON-M ASPH. silver chrome finish	35 f/2	64°	7/5	16	∞ - 0.7	419 x 627	E 39	34.5	53	340	11 882
TRI-ELMAR-M	28-35-50 f/4	76° 64° 45°	8/6	22	∞ - 1.0	750 x 1130 620 x 930 430 x 650	E 55	70	58	340	11 890
TRI-ELMAR-M silver chrome finish	28-35-50 f/4	76° 64° 45°	8/6	22	∞ - 1.0	750 x 1130 620 x 930 430 x 650	E 55	70	58	460	11 894
NOCTILUX-M	50 f/1	45°	7/6	16	∞ - 1.0	410 x 615	E 60	62	69	630	11 822
SUMMILUX-M	50 f/1.4	45°	7/5	16	∞ - 0.7	277 x 416	E 46	46.7	54.5	275	11 868
SUMMILUX-M silver chrome finish	50 f/1.4	45°	7/5	16	∞ - 0.7	277 x 416	E 46	46.7	54.5	380	11 856
SUMMILUX-M titanium finish	50 f/1.4	45°	7/5	16	∞ - 0.7	277 x 416	E 46	46.7	54.5	380	11 869
SUMMICRON-M	50 f/2	45°	6/4	16	∞ - 0.7	277 x 416	E 39	43.5	53	240	11 826
SUMMICRON-M silver chrome finish	50 f/2	45°	6/4	16	∞ - 0.7	277 x 416	E 39	43.5	53	335	11 816
ELMAR-M	50 f/2.8	45°	4/3	16	∞ - 0.7	274 x 411	E 39	37.6	52	170	11 831
ELMAR-M silver chrome finish	50 f/2.8	45°	4/3	16	∞ - 0.7	274 x 411	E 39	37.6	52	245	11 823
SUMMILUX-M	75 f/1.4	31°	7/5	16	∞ - 0.75	192 x 288	E 60	80	68	560	11 810
APO SUMMICRON-M ASPH.	90 f/2	27°	5/5	16	∞ - 1.0	220 x 330	E 55	78	64	500	11 884
ELMARIT-M	90 f/2.8	27°	4/4	22	∞ - 1.0	220 x 330	E 46	76	56.5	410	11 807
ELMARIT-M silver chrome finish	90 f/2.8	27°	4/4	22	∞ - 1.0	220 x 330	E 46	76	56.5	560	11 808
ELMARIT-M titanium finish	90 f/2.8	27°	4/4	22	∞ - 1.0	220 x 330	E 46	76	56.5	560	11 899
APO-TELYT-M	135 f/3.4	18°	5/4	22	∞ - 1.5	220 x 330	E 49	105	58.5	460	11 889



Useful accessories for your LEICA M outfit

Beautifully tailored to the LEICA M6 in every respect, these accessories make photography with the M6 even easier and more pleasurable. They create greater latitude for exciting special tasks. There is a complete listing of LEICA M accessories at the end of this brochure.

Table tripod

Compact, practical and stable. An indispensable support for long exposure times. With three folding legs and a standard 1/4-inch tripod thread.

Order-No. 14 100



Ball-and-socket head

Take pictures with the LEICA M6 in any position! In combination with the table tripod it becomes highly versatile for a great variety of perspectives. Attached to the ball-and-socket head and a table tripod, you can even brace your M6 against your own body and turn it in any desired direction. Order-No. 14 110

Combination cases M

Available in a small or a large version, depending on how many lenses and accessories you wish to take along.

Both versions have neat outside compartments for useful small things.

Small combination case: Order-No. 14845

Large combination case: Order-No. 14842



Compact black leather case M

This convenient case was especially designed to accommodate a LEICA M camera with the collapsible 50 mm f/2.8 ELMARIT-M lens. Supplied with a wrist strap for the camera. *Order-No. 14522*



Ever-ready case M

Refined and elegant, made of fine black leather. For a LEICA M camera with a compact lens (21 to 35 mm, 50 mm f/1.4 or f/2). A handsome case that you can sport anywhere!

Order-No. 14505



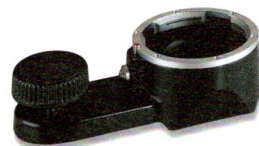
Additional information about accessories for the Leica M6 can be found in the "Handbook of the Leica System" (see the last cover page).



Filters

A UVa filter is available as an accessory for every LEICA M lens. In addition, there is also an orange and a yellow-green filter available for some of them.

<i>UVa filter E39</i>	<i>Order-No. 13131</i>
<i>silver chrome finish</i>	<i>Order-No. 13132</i>
<i>UVa filter E46</i>	<i>Order-No. 13004</i>
<i>silver chrome finish</i>	<i>Order-No. 13005</i>
<i>UVa filter E55</i>	<i>Order-No. 13373</i>
<i>silver chrome finish</i>	<i>Order-No. 13374</i>
<i>Yellow-green filter E55</i>	<i>Order-No. 13391</i>
<i>Orange filter E55</i>	<i>Order-No. 13312</i>
<i>UVa filter E60</i>	<i>Order-No. 13381</i>
<i>Yellow-green filter E60</i>	<i>Order-No. 13392</i>
<i>Orange filter E60</i>	<i>Order-No. 13383</i>



Lens carrier M

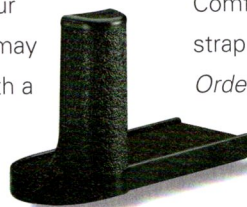
An ingeniously clever way to have a second lens ready – without having to take an extra camera case along. It is screwed on to the baseplate of the camera. Attach an M lens and – presto!

Order-No. 14404

Handgrip M

With the handgrip in place, you always have a secure hold on your LEICA M, wherever you may be. Very comfortable. With a centered tripod socket.

Order-No. 14405



Polarizing filters

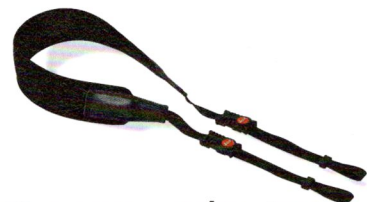
Eliminate disturbing light reflections, like those coming from water or glass surfaces but also from other (non-metallic) surfaces. At the same time they also improve contrast rendition and make colors appear more intense. Supplied with an elegant case and with adapters for all current M lenses.

Order-No. 13356



LEICA SF 20

Electronic flash unit with handsome Leica design. Compact and lightweight, convenient to take along wherever you go. Easy and straightforward to operate. With an illuminated display. Flash output is variable – useful, for instance, for pictures that benefit from fill-in flash. High performance batteries for fast flash sequences. The relatively large distance between the optical axis of the M lens and the flash tube reduces the danger of the "red-eye effect". *Order-No. 14414.* *24 mm diffusion screen for SF 20 flash unit: Order-No. 14417.*



Neoprene carrying strap

Comfortable and durable. Adjustable strap length for tall and short Leica fans. *Order-No. 14162*



Creating at the highest level with the LEICA R system

Our LEICA R cameras provide you with great freedom for your individual pictorial creativity and they stand out for their exemplary precision and dependability. They are respected by photographers around the world who will not be satisfied with anything but the very best in single lens reflex cameras.

LEICA R8 and LEICA R6.2: two typical Leica single lens reflex cameras, both of the highest standard of quality – even though they were designed for different photographic applications. Our latest SLR design, the LEICA R8, represents all our optical and mechanical know-how, it embodies the outstanding results of years of development work. Because with the LEICA R8 we want to offer you a unique technological masterpiece. This camera meets the highest demands down to the smallest detail in order always to deliver the very best: brilliant photographs, even under extremely difficult light conditions. The LEICA R8 provides you with the gratifying confidence of being able to rely fully and totally on precise automatic procedures – as long as you so desire. But you can also exercise your creative latitude as much as you wish with all camera functions. With its manifold manual setting possibilities, the R8 always leaves it up to you to what extent you wish to control the exposure yourself. It offers you the freedom of expressing all your ideas creatively. Or, are you the type of photographer who always wishes to compose his pictures himself, individually? And do you therefore give basic preference to manual settings

and purely mechanical operation? If so, you will probably wish to dispense with cleverly designed electronic refinements entirely.

In that case you can implement your creative talents in an ideal manner with the LEICA R6.2. With its sturdy and durable design, you can also unhesitatingly subject this camera to the toughest challenges – it always functions with absolute accuracy and dependability. Even under extreme climatic conditions. Our LEICA R cameras follow different concepts. But both of them have one thing in common: the highest quality of fabrication of every individual component and of the entire manufacturing process – something that you can rightfully expect from Leica. In addition, we have an excellent selection of practical accessories available for both cameras; and of course, a very extensive array of superb lenses whose performance is praised by experts all over the world.



The new style of photography

The fascinating design of the LEICA R8 was conceived from the ground up over many years of development time. Elegant aesthetics and user-friendly functionality were combined in a very successful manner – in the best interests of photographers with high expectations.



The design concept of the LEICA R8 evolved step by step from exhausting technical discussions.

Judiciously balanced in every detail, the design of the LEICA R8 will quickly excite you. Its compact external appearance is attractive because of the clarity of its contours and the harmony of all its proportions. The prism housing that usually clearly protrudes on other SLR cameras, was integrated into the shape of the R8 camera body with elegant restraint, so that it is but a graceful contour.

The main operating elements do not protrude, they were recessed into the housing instead. That, incidentally, not only has aesthetic, but also very practical reasons: "Many cameras have to be cleaned with a brush. The LEICA R8 you can simply wipe with a soft cloth". (Industrial designer Manfred Meinzer)

As you can see, the perfect styling of the LEICA R8 is not just for the eye to



appreciate. The camera is a joy to hold, and the operating elements are positioned ergonomically. For more pleasantly satisfying operation, preference was given to directly visible setting markings over LCD displays. All the operating elements provide you with a good overview and control at all times. They are straightforward and self-explanatory – you don't have to struggle through lengthy operating instructions!

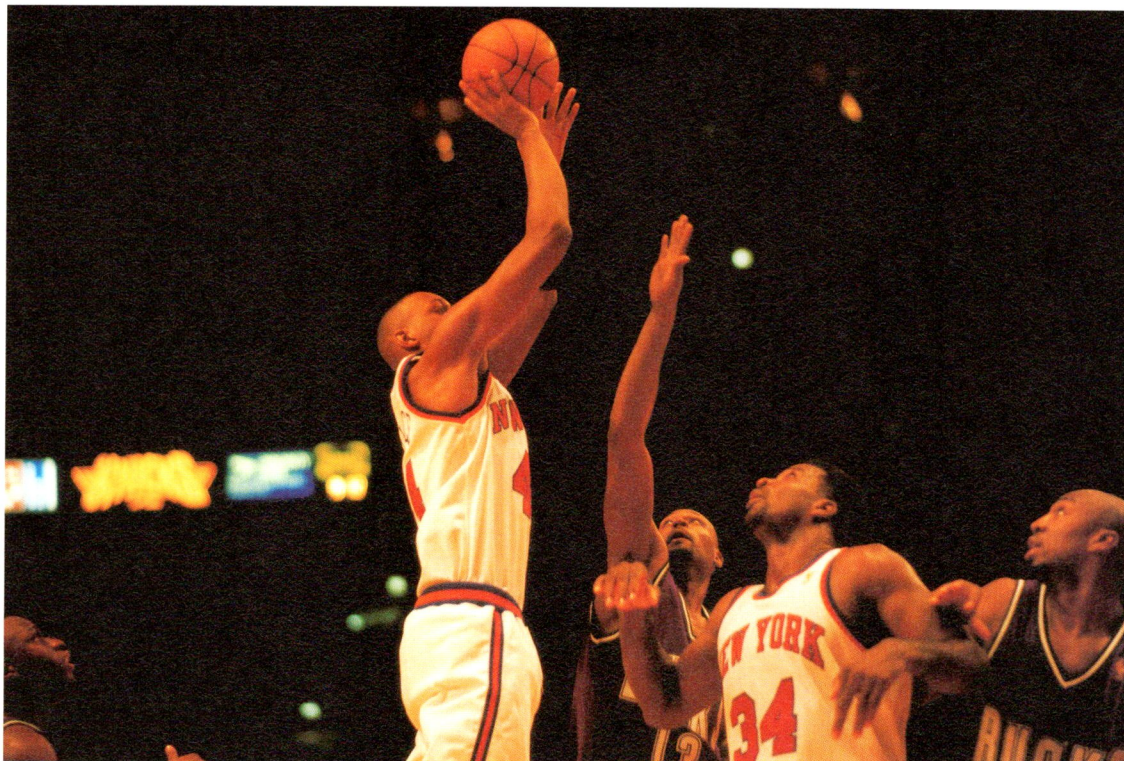


Several years of development work finally climaxed in the unmistakable form of the LEICA R8. Uncompromised functionality is combined with an impressive and unique aesthetic that particularly stands out because of its distinctively clean styling.



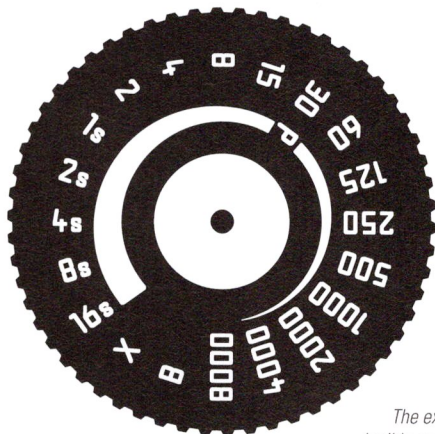
Accurate at all times

The shutter of the LEICA R8, with extremely fast shutter speeds up to 1/8000 second creates new dimensions in picture composition. And even after 100 000 operations it still functions with the accuracy for which Leica is praised time and time again in independent tests.



Pall Sterfánsson

Your subject may be involved in ever so much action – but with the LEICA R8 you can be sure of capturing it. And with razor-sharpness!



The exposure time that has been set is clearly legible on the large shutter speed dial that is smoothly integrated into the shape of the camera body.

Fast and accurate

Because the R8 is equipped with a super-fast shutter. A microprocessor controls the extremely lightweight shutter blades with the highest precision. Stepless in the aperture priority and automatic program exposure control modes over the entire range from 32 seconds to 1/8000 second. And in half steps, beginning at 16 seconds, in the shutter speed priority and manual exposure control modes. With the super-fast shutter speeds, even the swiftest action scenes can be “frozen” dramatically.

Greater freedom with flash

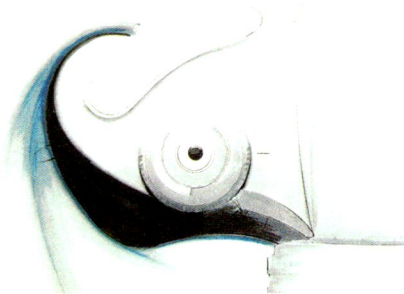
The highest synchronized shutter speed of 1/250 second provides you with a distinct advantage in terms of creative freedom when you use your LEICA R8 with flash. For example, with a 250th of a second you can take sharp photographs of fast-moving subjects in daylight with fill-in flash. Or you can limit the depth of field by using large apertures. With the LEICA R8 you always enjoy an ample latitude of choices – and that at the highest technical level.

Easy from beginning to end: the film advance

To make photography with the LEICA R8 an enjoyable experience right from the beginning, loading and advancing the film are an easy matter. And as you would expect it from this camera, here too, you have the choice of various options.

The convenience of operating this outstanding camera begins with loading the film: you simply position the leader at the marking in the film channel and threading is then carried out by the camera. Next you have three choices for advancing the film, depending on your needs:

How would you prefer to advance or rewind the film? Manually and silently? The LEICA R8 makes it possible. That mode enables you to travel with lighter baggage, because you don't need a motorized film advance accessory.



Or would you like the film to be advanced automatically after an exposure has been made? For that convenience, simply attach the lightweight, compact MOTOR-WINDER-R8 to the base of the camera. Its styling blends in perfectly and inconspicuously with the contours of the camera. The MOTOR-WINDER-R8 enables you to take pictures at a rate of two frames per

second, and if you wish it can rewind the film automatically after its last frame has been exposed.

And if you expect situations that require a boosted energy supply, for instance in extremely cold temperatures or in prolonged applications, there is a supplementary "Power Pack" available in the form of a rechargeable battery pack that will always supply sufficient energy.

Or would you like to take pictures at an even livelier rate in order to capture fast-moving events in skillful picture sequences? Then the MOTOR-DRIVE-R8 with its potent film advance is the right choice for you. (The MOTOR-DRIVE-R8 is currently in preparation.) And you also have choices in rewinding the film: do you want the film leader to disappear into the cartridge or not? This is a very effective way of identifying a cartridge in order to prevent the accidental re-use of a film that has already been exposed.

As you can see, the LEICA R8 always gives you the opportunity to make a decision regarding the film advance. And last but not least, with this camera you only need to take along the accessories you will really need.



*The lightweight MOTOR-WINDER-R8 is attached to the base of the camera and it blends harmoniously with the styling of the camera body.
Order-No. 14 209*

It's all clearly in the viewfinder

All the information you need for a successful exposure is shown clearly and succinctly in the high-eyepoint viewfinder of the LEICA R8. And the first look through this exceptional viewfinder already gives you a preview of the outstanding performance of LEICA R lenses, even before the exposure is made.



Perfect view

A joy, even for the demanding eyes of an expert: the viewfinder of the LEICA R8 presents an exceptionally brilliant and contrasty image. Very bright – even under unfavorable light conditions – it shows you the subject and all its nuances exactly as it is in reality. The meticulously precise and complex fabrication of all the optical elements in the light path assure an excellent rendition of the subject.

Even if you wear eyeglasses, you have everything in clear view with the LEICA R8. It has an integrated correction feature

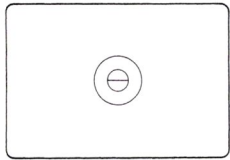
with a range of +2 to –2 diopters that permits individual adjustment to the user's eyesight. This produces an absolutely sharp image – an important prerequisite for accurate focusing.

Control and overview

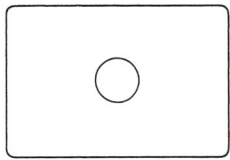
The displays in the viewfinder provide you with all the essential information that applies to the exposure control mode that you have selected: easy to read, clear and unequivocal. A perfect control center. The various parameters – including an exposure counter – are grouped in an LCD line below the

*Easy to operate, even with the camera at eye level:
the exposure compensation lever for exposure corrections.*

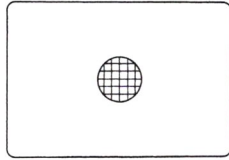




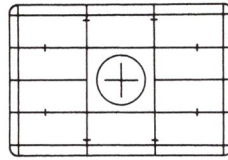
Universal focusing screen



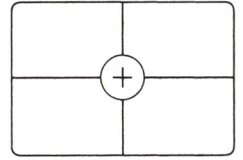
Uniform ground glass screen



Microprism focusing screen



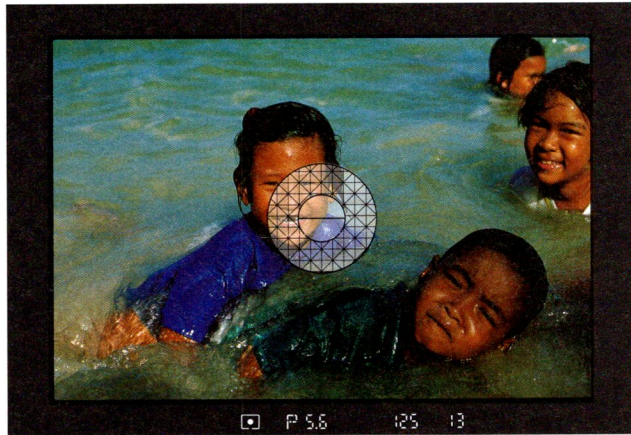
Uniform ground glass screen with grid divisions



Clear glass screen with cross lines

viewfinder image. So that it won't distract you when you want to concentrate fully on the composition of your photograph. And for even more convenience, there is an additional LCD (liquid crystal display) on the back cover of the LEICA R8. In addition to certain parameters that are also shown in the viewfinder (such as flash readiness), it provides information about film speed, selftimer operation and battery condition. Also, you'll quickly realize how convenient the display on the back cover is, when you work with the camera mounted on a tripod. So, as a

LEICA R8 photographer, you always have a good overview, even when you are not holding the camera at eyelevel.

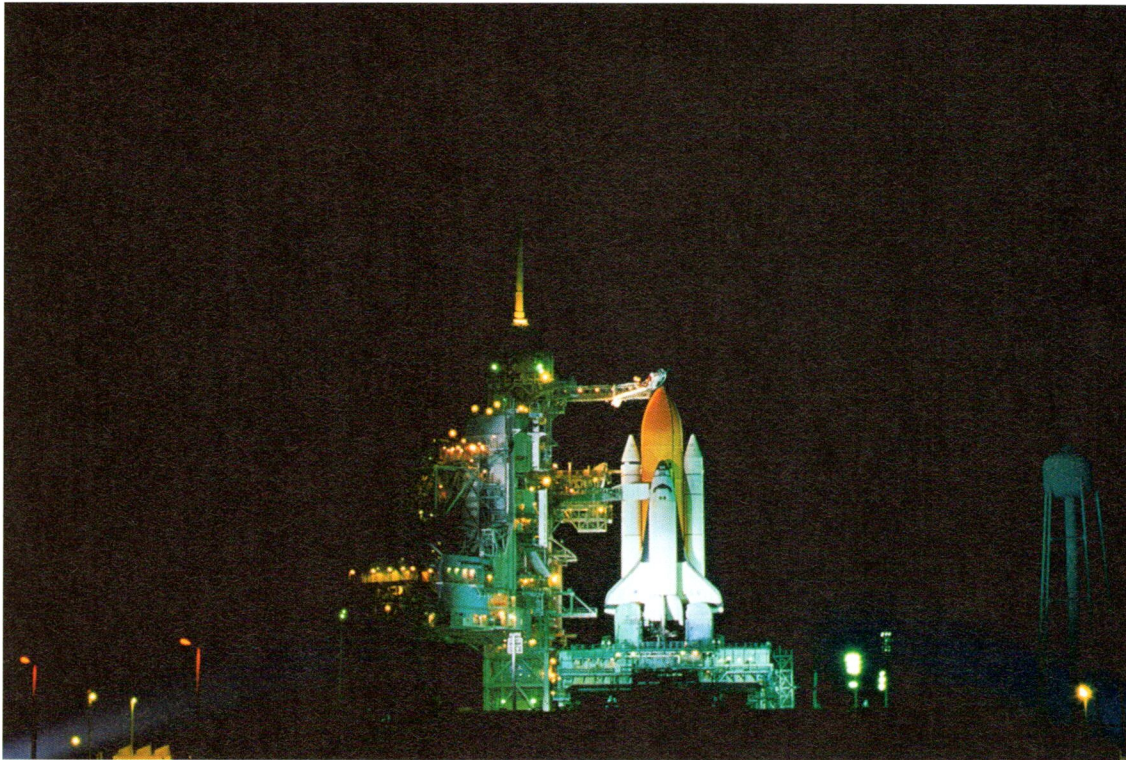


Enrico Domhardt

The LEICA R8 is normally supplied with a universal focusing screen. Four additional focusing screens are available as accessories.

Exposure metering – the right choice for every case

With a LEICA R8 you have the choice of three exposure metering modes: selective-, integral- and multi-pattern metering. That gives you flexibility in dealing with any lighting situation. And at the same time you can rely on the intelligent and precise interpretation by the camera.



Luis Castañeda

Selective metering

Often the most interesting subjects are characterized by strong lighting contrasts – a challenge to dedicated photographers since way back when. But with the selective metering mode of your LEICA R8 you can master such lighting situations with complete confidence.

Using the small metering field delineated in the center of the viewfinder image, you can “selectively” meter the important part of the subject (provided

it includes a medium gray tonal value) – for example when you make a portrait with back lighting. But you can also accurately meter portions of the subject with different brightnesses and then derive the final exposure setting from those values.

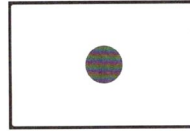
The setting that you have chosen can be stored by gently pressing the shutter release button to the first pressure point, so that you can then move the camera to the preferred cropping. If after that you change the f-stop

or the shutter speed, the camera will automatically compensate the corresponding second setting.

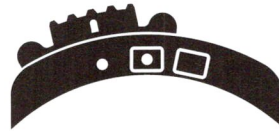
Integral metering

When brightness contrasts are not very high and you wish to place the main subject in the center of the image anyway, integral metering is an appropriate choice. In this universal method, the reading is clearly center-weighted, but it also takes into account lighting conditions in the remaining image area. Thus you still have the possibility of controlling the exposure.

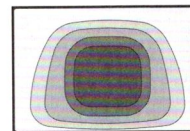
The dot on the metering mode selector stands for selective metering.



Luis Castañeda



The rectangle on the metering mode selector stands for center-weighted integral metering.

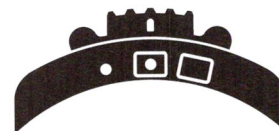
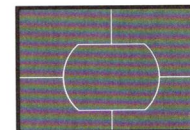


Pall Sterfånsen

Multi-pattern metering

There are times when one simply wants to take pictures spontaneously. Just pressing the button, without spending much time analyzing the exposure, leaving that up to the camera. In such cases the multi-pattern metering mode of the LEICA R8 produces balanced exposures in any lighting situation. Because its microprocessor works with "built-in photographic experience". It automatically analyzes the lighting conditions and derives an appropriate exposure from the results. This metering mode divides the subject area into six sections and it measures the brightness of each section separately. The readings are assigned to preprogrammed subject types, and the individual sections are then weighted in coordination with the whole. After that, the LEICA R8 fully automatically derives the correct exposure. Precisely and dependably.

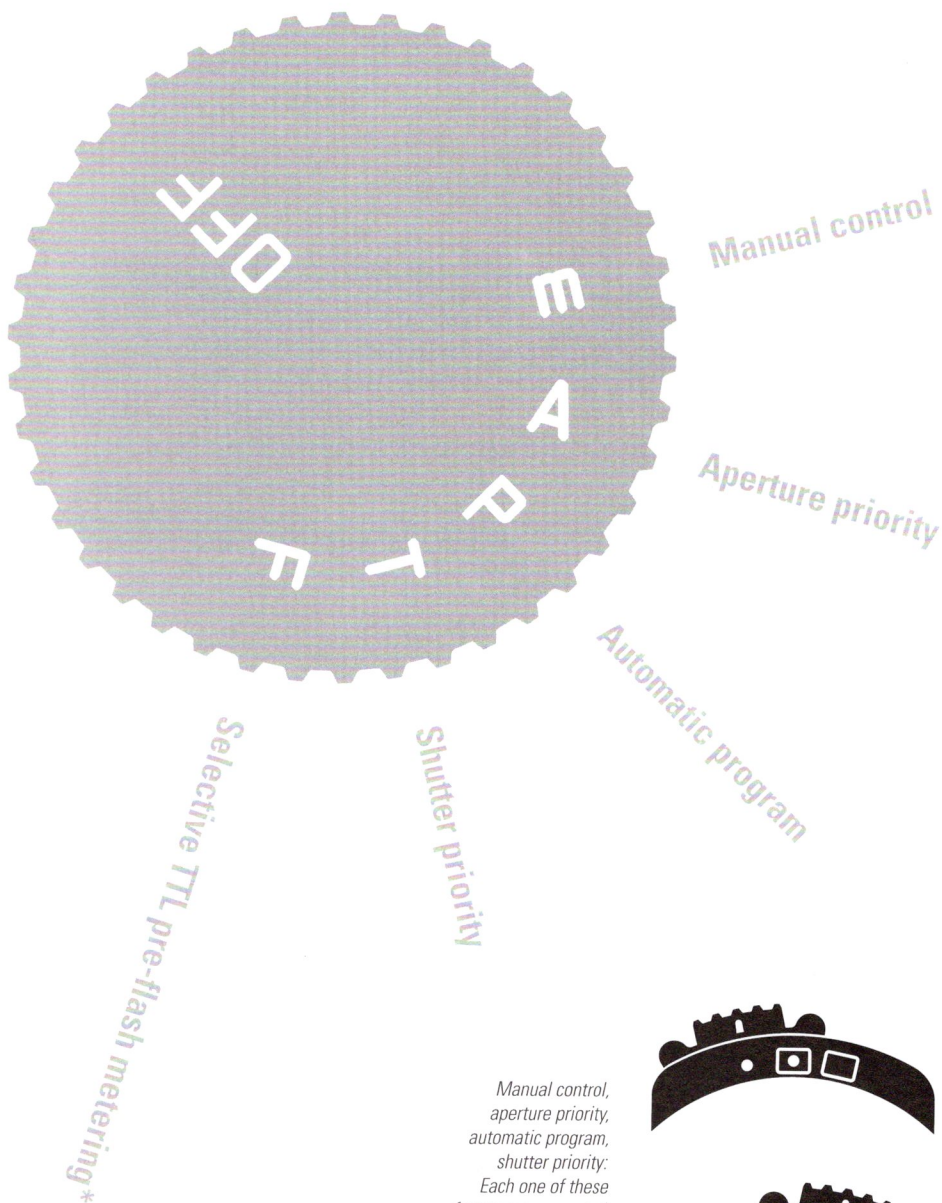
The dot in the rectangle on the metering mode selector stands for multi-pattern metering.



Pall Sterfånsen

Confident picture composition as a program

Four modes of controlling aperture and shutter speed – the LEICA R8 provides them so that you can implement every conceivable idea as creatively as you wish. Great snapshots? Dramatic action photographs? Or manually controlled creative photographs? The choice is yours.

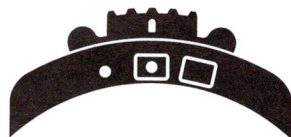
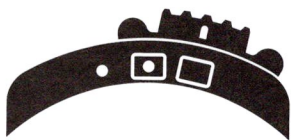
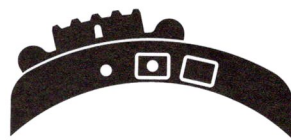


Variable program mode

Interesting subjects usually don't wait around for you. Instead, they call for a quick reaction. And that is very easy with the variable program automatic exposure control mode on the LEICA R8: you can confidently entrust it with the exposure control setting function in any situation. It immediately determines the right combination of shutter speed and aperture. And you can relax in the confidence that every photograph will be successful.

But you can do more with automatic program exposure control than "just" capturing successful snapshots: you can also influence the shutter speed and aperture combination yourself. You may wish to make sharp pictures of moving subjects. Or you may prefer to be creative with blurred motion shots. That is no problem with the LEICA R8. Because with the variable program mode you can determine whether you want the camera to use a faster shutter speed – and with it a larger aperture – or if you want it to operate exactly the other way around.

Manual control,
aperture priority,
automatic program,
shutter priority:
Each one of these
four exposure control
modes can be freely
combined with any one
of the three exposure
metering methods.



(*SCA-controlled flash exposure metering possible in m, A, P and T-modes)



Jürgen Winkler

Shutter speed priority

To capture subjects in lively action is always fascinating. In some cases every detail of a fast movement is to be rendered in needle-sharp detail. In other cases, motion blur is to be used intentionally to emphasize the dynamics of vigorous action. With the shutter priority mode of the LEICA R8 you can creatively predetermine the effect of your action shots: you select the appropriate shutter speed, and the camera will automatically set the correct aperture.

Aperture priority

One of the most important creative elements in photography is depth of field. It enables you to place dramatic emphasis on important details. With the aperture priority mode of the LEICA R8 you can concentrate completely on the choice of the most appropriate aperture

and with it on the creative use of the depth of field. And thanks to the preview lever, which allows you to view your subject at the working aperture, you can already judge the effect of your choice in the viewfinder. The camera automatically takes care of setting the correct shutter speed.

Manual control mode

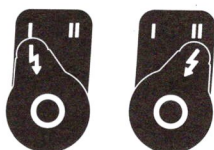
You may occasionally wish to set both the shutter speed as well as the aperture yourself. There are certain lighting situations when it is desirable to select all the settings manually. It might be in order to record a particularly moody atmosphere or deliberately to capture certain effects in special situations. All you need to do in such cases is to select the "m" mode for manual operation, and the LEICA R8 leaves everything else up to you.

Cast light on the subject with flash

The flash technology of the LEICA R8 presents you with additional creative freedom. Using the two flash exposure metering methods you can capture lighting moods exactly as you want them. Flash can easily be tailored to ambient light.



Günter Osterloh



Vigorous motion is often depicted more realistically with the flash ignition set for the second shutter curtain: shown above is the lever for selecting the instant of flash ignition.

Flash with the automatic program mode

It also applies to flash: you indicate your preference, the LEICA R8 follows up with the optimal technique. First you decide whether you wish to rely on the computer-controlled exposure metering of the camera when taking pictures with flash. If so, set the mode selector on "P" for programmed automatic exposure control. The metering of the flash light will then be integral. And, depending on ambient lighting conditions, the flash will deliver full or reduced power. Or none at all. When and how much, the LEICA R8 will know.

Being creative with flash illumination

If however you wish to take the settings for flash exposures into your own hands – the LEICA R8 will gladly give you precedence. With manual settings, aperture priority and shutter priority automatic exposure controls, flash exposure metering is always integral. You select the shutter speed or the

aperture for the desired pictorial effect. In addition, you can also enter corrections on the SCA adapter for the exact dosing of flash output.

The “m” mode

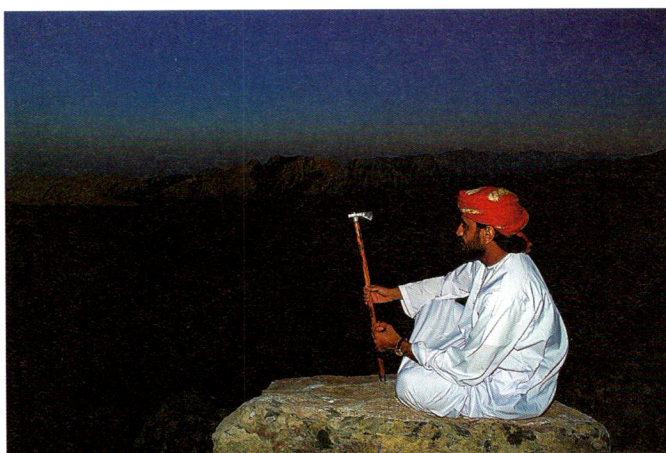
The “manual” (m) exposure control mode is excellent for controlling available light independently from the effect of flash illumination. Especially for photographs in the moody illumination of twilight, it is the ideal mode for achieving a very good balance of contrast between flash-illuminated foreground and ambient light.

1st or 2nd shutter curtain?

Another plus for flash photography with the LEICA R8: you can set flash ignition for the beginning or the end of the exposure. Depending on this timing, the same subject will be rendered quite differently. When the flash is triggered at the end of the exposure (normally it is fired at the beginning), moving subjects are depicted more dramatically, more so with longer exposure times.

Even more smart flash functions with the “F” mode

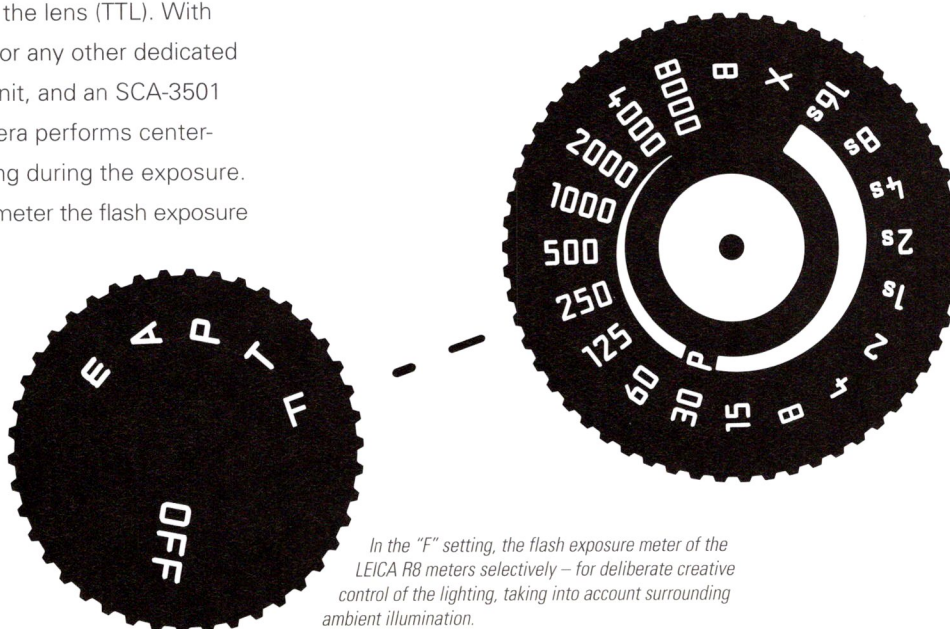
With a LEICA R8, flash output is always metered through the lens (TTL). With the LEICA SF 20 or any other dedicated electronic flash unit, and an SCA-3501 adapter, the camera performs center-weighted metering during the exposure. But you can also meter the flash exposure



The exceptionally versatile flash technology of the LEICA R8 is ideal for individual pictorial creativity.

Udo Bernhardt

before making the actual exposure, using any type of flash unit – including professional studio outfits. In that case, the LEICA R8 performs selective metering, which enables you to tailor the flash output specifically to a particular detail of your subject. After every flash metering, the deviation from the correct overall exposure is indicated in the viewfinder and on the back cover display. Based on that information, you can then select an adequate shutter speed and aperture combination.



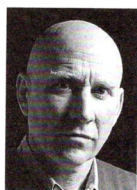
In the “F” setting, the flash exposure meter of the LEICA R8 meters selectively – for deliberate creative control of the lighting, taking into account surrounding ambient illumination.

The dependability of the legendary LEICA R6.2

Robust all-metal body, a shutter that does not depend on batteries, and perfect quality of fabrication: that makes the mechanical LEICA R6.2 the ideal single lens reflex camera for creative photography under all climatic conditions.



Sebastião Salgado



“My photographic activities take place under extreme climatic

conditions, thus placing severe demands on the durability of my equipment. The mechanical LEICA R6.2 has proven itself in harsh action and it has provided me with outstanding pictures, even without battery power.”

Sebastião Salgado, Brazil



The LEICA R6.2 has already been the indispensable tool for many adventurers and photojournalists that never lets them down. Because we very deliberately designed the robust mechanism of this high performance camera for use under extreme conditions.

Quality “Made by Leica”

The important details of the LEICA R6.2 are still fabricated by hand to this day. Metallic components, accurately matched to one another – surface-treated and protected against corrosion, perform their tasks dependably for

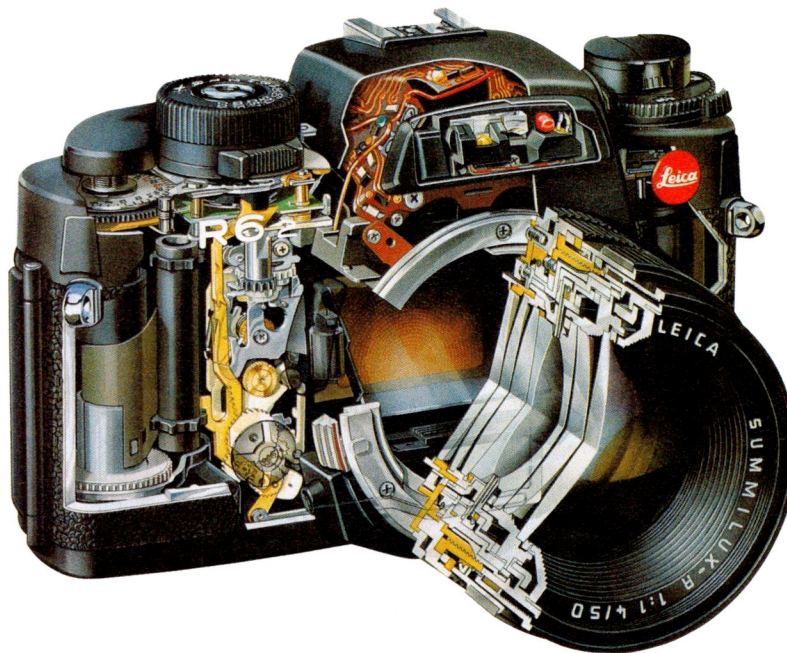
many decades. It begins with the selection of the materials that are used in the LEICA R6.2, which is guided rigidly by the longevity and the resistance against shocks, impacts and against the effects of humidity and extreme temperature variations that they can provide. In uncompromising hardness tests, especially in the so-called "burn-in test", the complete camera is repeatedly subjected to enormous temperature variations, between which all its functions are individually checked. Only when a LEICA R6.2 has passed our uninterrupted quality controls with flying colors, proving that it can function absolutely accurate and dependable, even under extreme conditions, is it permitted to leave our factory.

Creative freedom

The LEICA R6.2 provides you with the freedom of implementing your own creative ideas, without any constraints imposed by automatic exposure control procedures. With this camera, you will always enjoy the challenge and the freedom of composing your subjects with the classic elements of photography: on the LEICA R6.2, aperture and shutter speed are always set manually.

Precise shutter

Its robust metal body houses a purely mechanical shutter with highly accurate control. It guarantees reproducible and uniformly accurate shutter speeds, even under extreme conditions. The shutter of the LEICA R6.2 does not depend on



batteries, it works fast, quietly and extremely dependable. The mirror lock-up option eliminates even minor vibrations during an exposure.

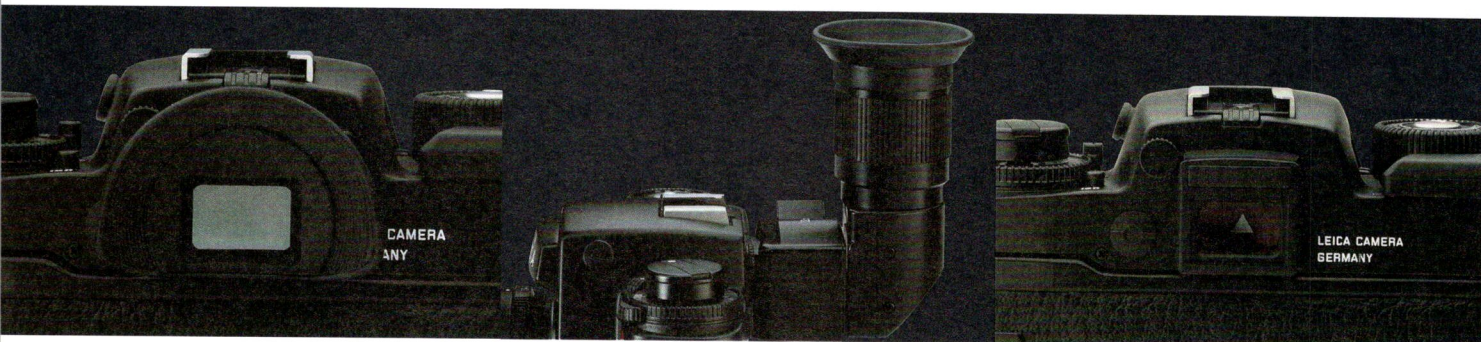
With a robust exterior that can endure harsh usage, and an interior that houses the highest precision: a cross-section of the LEICA R6.2.



Sebastião Salgado

Visible perfection in the viewfinder

Especially with a mechanical camera, it is very important to have a constant overview of the relevant information that affects the creation of a photograph. You make the settings and the viewfinder shows you everything you need to know before you release the shutter.



It protects the eye from extraneous light and it serves to hold eyesight correction lenses: the flexible eyecup (left). It facilitates work with the camera on a copying stand and it also enables you to take photographs from a worm's eyeview: the rotating angle finder (center). Prevents stray light from affecting the exposure metering: the eyepiece shutter (right).

Focusing, f-stop, shutter speed, exposure metering – the viewfinder display of the LEICA R6.2 gives you all the pertinent information concerning the camera settings, clearly and unequivocally. A clearly legible control center for creative photography.

Balancing shutter speed and aperture

The correct exposure value is conveniently determined by means of the light balance in the viewfinder. If your subject requires a specific shutter speed, you can preset that speed and then turn the aperture ring until the correct balance is visible in the viewfinder. If, on the other hand, you wish to concentrate on the depth of field, then you first set the desired aperture and then adjust the shutter speed to establish the right combination.

Outstanding viewfinder optics

We have always considered a brilliant viewfinder image to be of the greatest importance in our cameras. Just look through the viewfinder of the LEICA R6.2 and you'll be convinced. The

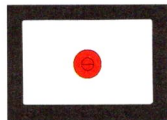
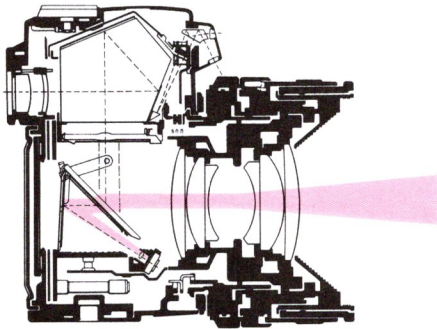
pentaprism is ground with high precision and coated with pure silver, and no less than 17 layers are coated on the hinged mirror in a vacuum chamber. The result is absolutely remarkable: a viewfinder image that is exceptionally clear, bright and contrasty, even in poor lighting conditions. When it is dark, the aperture scale of the lens can be illuminated. The built-in +2 to -2 diopter adjustment in the viewfinder eyepiece allows it to be tailored specifically to the user's eye. Additional correction lenses from +3 to -3 diopters can be attached.

A choice of 5 focusing screens

The LEICA R6.2 is normally supplied with the Universal Focusing Screen, which permits accurate focusing with virtually all photographic tasks. In addition there are four more interchangeable focusing screens available as accessories: the Uniform Ground Glass Screen, the Microprism Screen, the Uniform Ground Glass Screen with Grid Divisions and the Clear Glass Screen with Crosslines. That means that you are also very well equipped for special tasks.

Exposure metering to suit your needs

The LEICA R6.2 offers three options for TTL (through-the-lens) exposure metering: center-weighted large field integral metering, pin-point accurate selective metering and flash exposure metering.



Metering field for selective metering as it appears in the viewfinder. To the left is a diagram of the lightpath with selective metering.

Integral metering

Under normal lighting conditions without strong contrasts, your best choice is large field integral metering. Because the important part of the subject is usually depicted near the center of the image, this method uses center-weighted metering. But lighting conditions in the rest of the subject area are also taken into account.

Selective metering

With the precise selective metering mode you can confidently manage even the most difficult lighting situations. Subjects with very light or very dark backgrounds, for instance, or stage shots that include blinding light sources, or portraits by candlelight. With this mode you aim the small metering field in the center of the viewfinder image at that part of the subject that is most important for the exposure and determine the exposure settings. Then select the best cropping for your subject. The shutter speed and aperture that you have set manually will be retained. It takes only a small motion of the finger to switch back and forth between



Oliver Richter

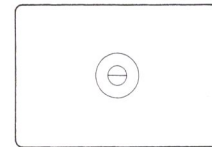
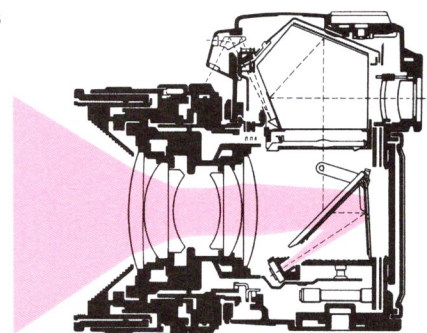
selective and integral metering without taking the camera away from the eye. Because you should not be distracted from concentrating completely on your photograph.

Skillful flash photography

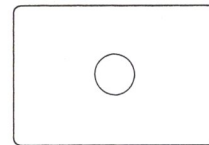
Flash photography with the LEICA R6.2 is basically as simple as photography in normal light. TTL flash exposure metering provides precise settings with any focal length. It works beautifully in conjunction with all electronic flash units that are equipped with a "System Camera Adaptation" (SCA) 300 or 500.



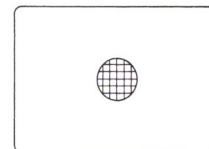
Metering field for large field integral metering as it appears in the viewfinder. To the right is a diagram of the lightpath with large field integral metering.



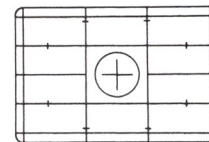
Universal Focusing Screen



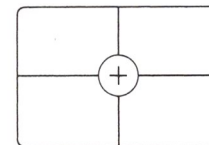
Uniform Ground Glass Screen



Microprism Screen



Uniform Ground Glass Screen with Grid Divisions



Clear Glass Screen with Crosslines



Plus points of the LEICA R8 at a glance

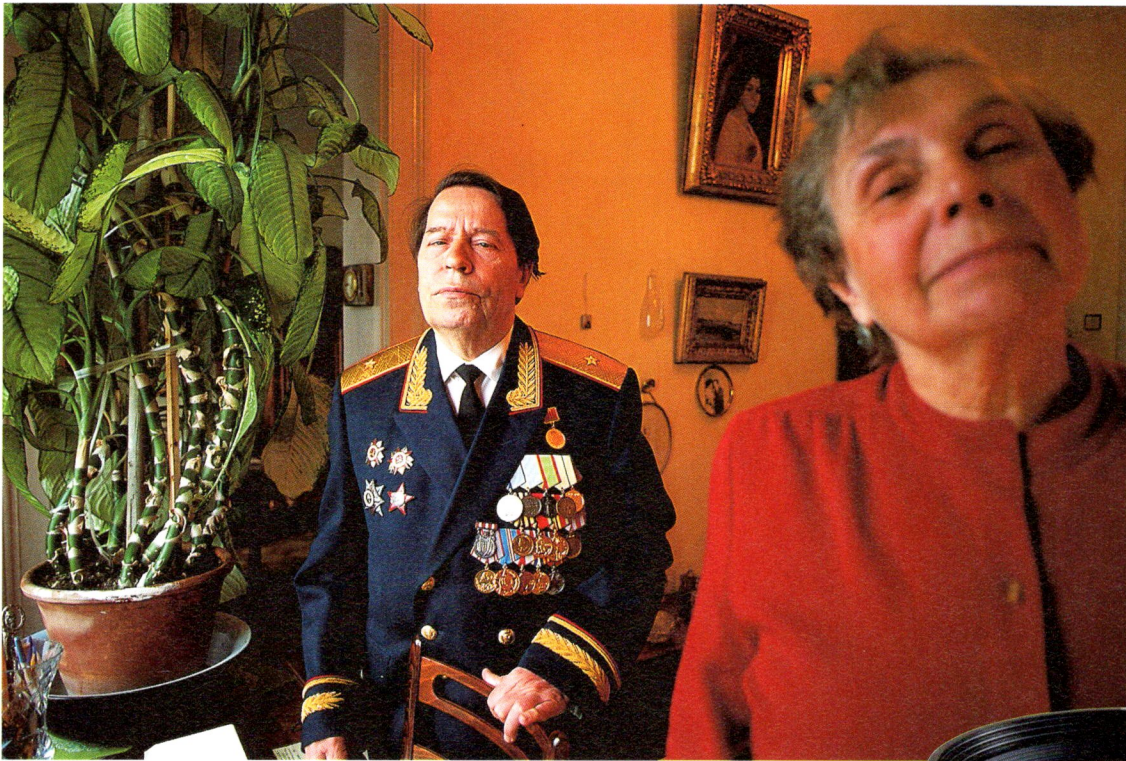
- The distinctive styling of the LEICA R8 stands out for its unique clarity and timeless elegance.
- Its sturdy metal construction makes it robust and durable.
- Thanks to its outstanding ergonomic design, the LEICA R8 fits very well in the hands, even with long focal length lenses.
- All major controls are shaped for comfortable handling and positioned for convenient access.
- The viewfinder display always provides an exact overview of all the important exposure information, along with an exceptionally bright and contrasty image.
- The fast shutter with speeds up to 1/8000 second opens new opportunities for creative picture compositions.
- In addition to the proven large field integral and selective exposure metering, the multi-pattern exposure metering enables you to photograph new and unusual subjects.
- The aperture priority, shutter and manual priority, programmed automatic, exposure control modes can be freely combined with any of the above three metering methods. The automatic program mode offers creative freedom, because the indicated shutter speed and aperture pairs can be varied at will.
- Several flash-, metering- and control functions provide extensive creative possibilities: from the precise analysis prior to the actual exposure to the automatic dosing of full flash or fill-in flash illumination.
- The focal lengths of the extensive line of world-famous LEICA R lenses range from 15 mm to 800 mm. They are compatible with earlier as well as future R cameras.
- A comprehensive line of practical accessories is available for the LEICA R8.

Plus points of the LEICA R6.2 at a glance

- The classic, timeless styling of the LEICA R6.2 stands out for its elegance and ergonomic functionality. Its sturdy all-metal body is compact and easy to handle.
- Convenient control elements assure fast and confident picture-taking.
- Reliable electronic exposure metering leads to accurate exposures, even under extreme conditions. In bone-chilling cold and in stifling heat.
- The correct exposure can be determined with either selective or integral exposure metering.
- TTL flash exposure metering makes flash pictures as easy and as certain as photographs taken in daylight.
- All relevant exposure information is displayed in the bright and brilliant viewfinder of the LEICA R6.2.
- In addition to the Universal Focusing Screen that is normally supplied with the LEICA R6.2, there are four additional interchangeable focusing screens available as accessories.
- Built-in eyepiece correction, adjustable from +2 to -2 diopters.
- Mirror lock-up helps to prevent vibrations.
- More than 30 high-performance lenses with focal lengths from 15 to 800 mm are compatible with earlier as well as future LEICA R cameras.
- Perfectly compatible accessories permit the LEICA R system to be tailored to individual requirements.
- Leica Customer Service, more than 100 Leica representations all over the world, as well as an extensive network of authorized Leica dealers, assure qualified service virtually everywhere in the world.

Space for exciting perspectives: super-wide-angle lenses

Super-wide-angle lenses are fascinating because of their enormous angle of view, which covers a much greater field of view than standard focal lengths do, for instance. They characteristically produce intensified perspectives with monumental foregrounds and rapidly receding backgrounds.



Günter Bersch



"In my experience, the way the human eye sees can best be simulated by short focal lengths. When I take pictures with a wide-angle lens, it is not for suggesting an overview. I seek a descriptive, interpreting and commenting style of expression. Pictures that leave enough room for the viewer to delve in and to discover the clues. Without my 19 mm lens I would be speechless."

Günter Bersch, Germany

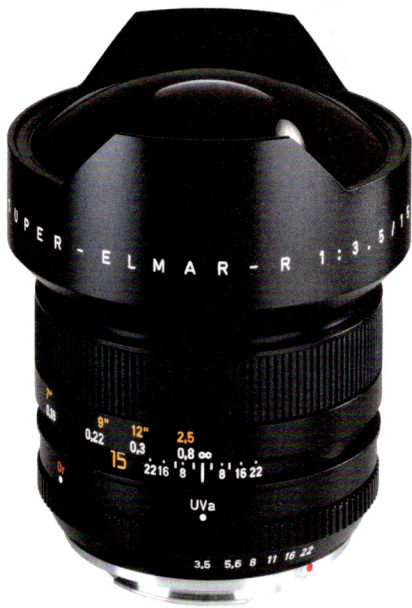
19 mm f/2.8 ELMARIT-R

A compact, super-wide-angle lens with an angle of view of 96°. Its relatively high speed considerably expands its range of applications, especially in landscape, architectural and fashion photography. But it is also an ideal lens for snapshots and for photojournalism, even wide open. Integrated filter revolver with four filters.



16 mm f/2.8 FISHEYE-ELMARIT-R

An extreme wide-angle lens with barrel-shaped distortion for dramatic effects. All straight lines that are not in the center of the image, are reproduced progressively more arched as they are located closer to the edges of the picture. The diagonal angle of view of this lens is 180°! It has an integrated filter revolver with four frequently used filters.



Günter Bensch

15 mm f/3.5 Super-Elmar-R

A fast lens with linear focusing and exceptionally low distortion (aberrations corrected by means of floating elements). It is wonderfully suited for landscape, architectural and fashion photography with highly expressive effects. With its diagonal angle of view of 110° and its nearest focusing distance of 16 cm or 6 5/16", it offers extraordinary creative possibilities for picture composition that are not available with other lenses. Built-in filter revolver with four filters.



24 mm f/2.8 ELMARIT-R

A large angle of view, relatively high speed and excellent imaging performance, even at full aperture are a perfect combination to give this lens a special place in dynamic photojournalism in very confined spaces. It creates impressive images with extraordinary perspectives, but without the impression that a super-wide-angle lens was used.

Everything in good view: standard wide-angle lenses

Standard wide-angle lenses are very versatile for everyday photography. Compared to normal lenses, they provide a distinctly larger coverage of the subject while still reproducing all size relationships with a relatively natural appearance.



Roberto Dotti



"When I take pictures, it is like I am painting, and this is only possible with Leica lenses. The 35 mm f/1.4

SUMMILUX-R, for instance, my inseparable companion on my travels around the world, enables me to capture all the colors perfectly. With complete confidence I can vary the various tones of color without distortions and without disturbing reflections."

Roberto Dotti, Italy

35 mm f/1.4 SUMMILUX-R

An ultra-fast wide-angle lens that was designed for photography under unfavorable light conditions. Superbly suited for photojournalism. It features outstanding imaging quality and exceptionally low distortion for this type of wide-angle lens.



28 mm f/2.8 PC SUPER-ANGULON-R

The "PC" in the name of this shift lens stands for perspective correction.

It is especially suited for architectural photography, because it can straighten out those annoying converging lines.

The large usable image circle diameter of 62 mm makes it possible to shift the complete optical system by 11 mm away from the optical axis.



28 mm f/2.8 ELMARIT-R

The "28" ELMARIT is the lightest of the wide-angle lenses in the LEICA R system. Its remarkably compact dimensions, relatively high speed and harmonious wide-angle characteristics make it a very pleasant and universally applicable companion. The angle of view is 76° and the focusing range is from infinity to 30 cm or 11 ¹³/₁₆". It comes with a built-in sliding lens hood.



Birgit Amendt



The PC-SUPER-ANGULON-R straightens out converging lines. In the upper picture, the camera had to be tilted in order to include the near part of the roof. This resulted in the converging lines that are so annoying in architectural photography. In the lower picture, the vertical lines are perfectly straight, because the camera was held parallel to the building and the lens was shifted upwards.



35 mm f/2 SUMMICRON-R

Unquestionably, the 35 mm SUMMICRON-R is one of the very best high-speed wide-angle lenses available today. For lively candid photography, even in low light conditions, it is exactly the right lens. A compact all-purpose lens that belongs in every LEICA R outfit.



Versatile companions: standard lenses

Standard lenses from Leica are small and lightweight lenses with high performance. They combine high speed with outstanding imaging capabilities. And they are especially versatile, because their angle of view of 45° comes closest to the visual coverage of the human eye.



“Conveying the visualized picture idea is best done with a 50 mm focal length.

Quick, spontaneous and contrasty.”

Carsten Lerp, Germany



50 mm f/1.4 SUMMILUX-R

A handy and extremely fast lens for on-site reporting. Its largest aperture of f/1.4 with the correspondingly very shallow depth of field, provides exceptional opportunities for very creative compositions. The 50 mm SUMMILUX-R stands out for an extraordinarily high and contrasty imaging performance for such a fast lens.

50 mm f/2 SUMMICRON-R

A universal lens with outstanding imaging quality, even in the near-focusing range. Ideally suited for travel photography, because its 41 mm length (1 5/8 ") and 300 gram weight (10 1/2 ounces) make it unusually compact and handy. The shortest focusing distance is 50 cm or 1'7 3/4 ". In spite of its high speed, it distinguishes itself by its outstanding sharpness, high contrast and excellent detail resolution, even at full aperture.



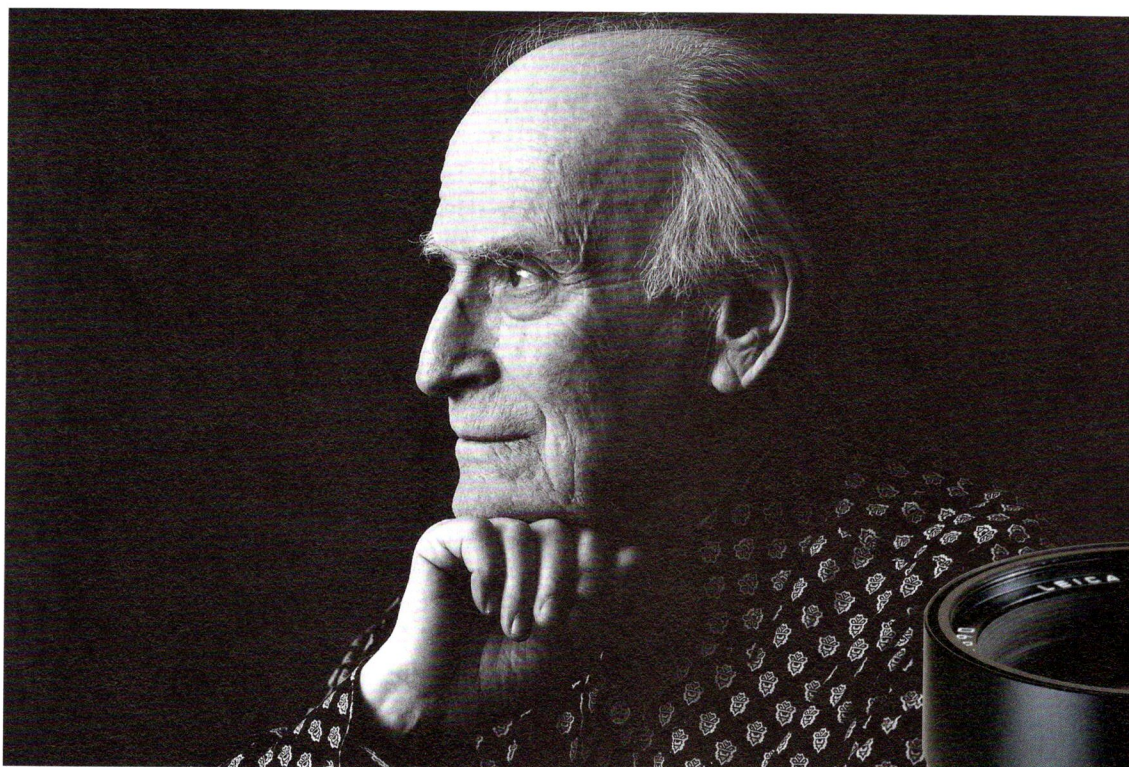
60 mm f/2.8 MACRO-ELMARIT-R

A 60 mm lens with an especially broad range of applications. If you can forego extreme high speeds in this range of focal lengths in order to gain the great advantage of a focusing range, from infinity all the way down to a mere 27 cm or 10 5/8 " (a maximum reproduction ratio of 1:2), then this is the perfect lens for you. Together with the MACRO-ADAPTER-R, a reproduction ratio of 1:1 can be achieved (also see page 65).



Bridging distances: short telephoto lenses

To photograph from greater distances, discreetly and inconspicuously. Or to bring subjects closer that are situated too far from the camera position: Those are the great advantages of telephoto lenses. And the main subject can be emphasized by means of an unsharp fore- and background.



Helmut Hien



“Even when photographic interpretations change with the passing of time,

the beginning is always a clear idea, that conjures a picture in one’s mind. Sometimes a photograph is prepared with meticulous attention to detail, and sometimes it is the quick reaction to a decisive moment that results in a special picture.”

Helmut Hien, Germany

80 mm f/1.4 SUMMILUX-R

The exquisite advantages of this high-speed, high-performance lens become clearly evident. In portrait and landscape photography, and especially in available light photography. Even at full aperture, it stands out because of its freedom from reflections and the fine nuances of its tone reproduction.





90 mm f/2 SUMMICRON-R

Very good contrast and sharpness rendition, high speed and outstanding resolving power: they make the 90 mm SUMMICRON-R an ideal lens for portrait photography, quick snapshots, and reportage photography. Its compact length makes it easy to take along everywhere.



With a short telephoto lens you can take photographs inconspicuously from a distance.

Helmut Newton

100 mm f/2.8 APO-MACRO-ELMARIT-R

A fast macro lens with apochromatic correction. It is equally as good for format-filling pictures from somewhat greater distances as it is for portraits from medium range. This exceptional lens delivers outstanding imaging performance over its entire focusing range, from infinity to 45 cm or 17 3/4 inches.



Reaching into the distance: medium telephoto lenses

Medium telephoto lenses visibly compress the depth of space and they make everything seem closer together. Distant things appear to be within reach, and it draws the observer right into the action. That's why these lenses are very often used for sports- and animal-photography.

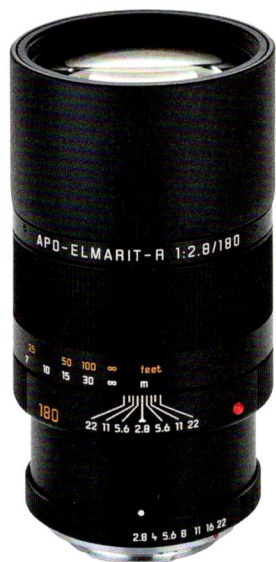


Miroslav Zajic

180 mm f/2 APO-SUMMICRON-R

This very fast telephoto lens with apochromatic correction produces flawless image quality all the way to the edges of the picture. From infinity to 1.5 m or 4'11". Even at full aperture, you can be confident of achieving photographs with maximum contrast, highest resolution and delicately differentiated color rendition. Internal focusing makes the overall length of the lens remain constant during focusing, and it always feels well balanced in your hand. The optical system includes a protective filter for the front element and a series 6 filter for the filter drawer. It has a rotating and locking mount for tripod attachment.





180 mm f/2.8 APO-ELMARIT-R

The overall optical performance of this new, apochromatically corrected 180 mm lens makes even the most critical photographers become enthusiastic. At full aperture it already has outstanding image quality that can hardly be improved by stopping the lens down. Coma, vignetting, astigmatism and curvature of field are practically non-existent. It is remarkably compact and elegant for a lens with this focal length. It is an excellent choice for portraiture, fashion-, sports- and landscape-photography – even when you are working without a tripod. All in all, a fast high-performance telephoto lens that satisfies the highest expectations, even under difficult conditions.



280 mm f/4 APO-TELYT-R

Apochromatically corrected lens with internal focusing. Completely distortion-free, it performs extremely well across its entire focusing range with highest resolving power, precise color rendition and optimal contrast reproduction – even at full aperture. It can focus down to 1.7 m or 67 inches, covering an object field of 120 x 180 mm or 4 3/4" x 7 1/8". Barely 21 cm or 8 1/4" long, you can still use it for excellent hand-held photography. It is, of course, also equipped with a tripod mount.



"Why do I take pictures with a Leica? Henri Cartier-Bresson

once said that the Leica is an extension of the arm, and I once said that the Leica is the only camera that has a soul. And that is the reason why I work with the Leica."

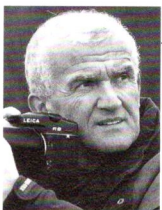
Miroslav Zajic, Czech Republic

Ingeniously flexible combinations: super telephoto lenses

The LEICA APO-TELYT-R modular system offers you extremely well-thought-out combination possibilities. It covers the full range of super telephoto lenses with five component elements. In part even with different speeds for the same focal length. And all that with outstanding Leica APO quality!



Franz Bagyi



"In my work as a wildlife photographer, every minute earlier in the morning and longer in

the evening during which I can take pictures is very important to me. This is best accomplished with the high-aperture modular lens system. Never have I seen lenses that were sharper and more contrasty at full aperture. Another enormous advantage is the quick, simple, space- and weight-saving focal length changing method by means of the various modules."

Franz Bagyi, Germany



We are offering this flexible modular system especially to sports and nature photographers as an interesting alternative to conventional telephoto lenses. All you need to do, is to join an APO-TELYT-R lens head and an appropriate focusing module to obtain

the desired focal length to suit a particular photographic task. Thanks to a special bayonet and the large locking ring, this can be done quickly and easily. The advantage of this intelligent system: you don't have to carry along many large and heavy individual telephoto lenses.

Instead, you simply combine modules as you need them. And you always have telephoto lenses with focal lengths from 280 mm to 800 mm at your disposal. With a twist of the wrist, six different APO-lenses are created from two lens heads and three focus modules – each one with unexcelled optical quality.

An additional plus point for the LEICA APO-TELYT-R Modular System: the remarkably short near-focusing distances of 2.0 to 3.9 meters or 6'6" to 12'9" expand their creative possibilities significantly.

APO-TELYT-R 280/400/560 mm
Depending on which FOCUS MODULE is attached, this lens head becomes a:
280 mm f/2.8 APO-TELYT-R,
400 mm f/4 APO-TELYT-R, or
560 mm f/5.6 APO-TELYT-R

*With this single focusing mount, the two lens heads can be converted into a:
280 mm f/2.8 or a
400 mm f/2.8 APO-TELYT-R*

*With this single focusing mount, the two lens heads can be converted into a
400 mm f/4 or a 560 mm f/4 APO-TELYT-R*

*With this single focusing mount, the two lens head can be converted into a
560 mm f/5.6 or an 800 mm f/5.6 APO-TELYT-R*



280/400 f/2.8 FOCUS MODULE



400/500 mm f/4 FOCUS MODULE



560/800 mm f/5.6 FOCUS MODULE



280/400/560 mm APO-TELYT-R



280 mm f/2.8 APO-TELYT-R



400 mm f/4 APO-TELYT-R



560 mm f/5.6 APO-TELYT-R



400/560/800 mm APO-TELYT-R



400 mm f/2.8 APO-TELYT-R



560 mm f/4 APO-TELYT-R

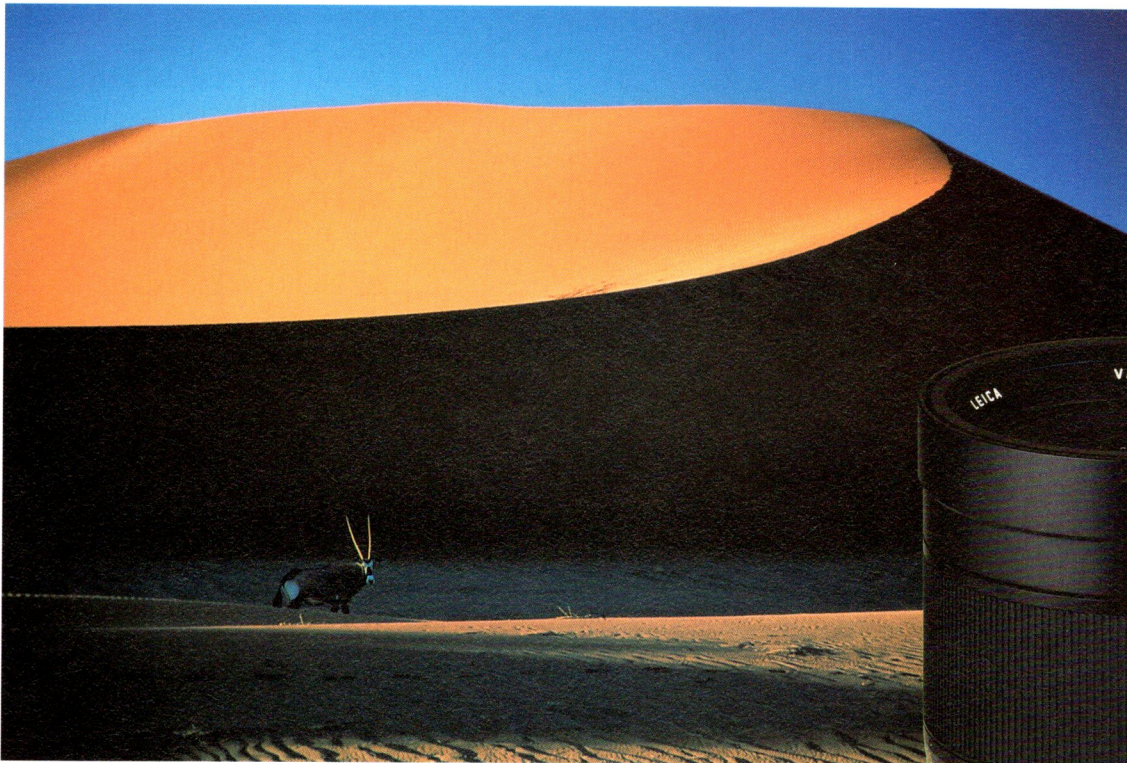


800 mm f/5.6 APO-TELYT-R

400/560/800 mm APO-TELYT-R
Depending on which FOCUS MODULE is attached, this lens head becomes a:
400 mm f/2.8 APO-TELYT-R,
560 mm f/4 APO-TELYT-R, or an
800 mm f/5.6 APO-TELYT-R

Pleasant companions: standard zoom lenses

Leica zoom lenses are a perfect combination of versatility and high optical performance. This makes them welcome travel companions for demanding photographers. And a zoom lens is simply indispensable in those fleeting moments when there is no time to change lenses.



Nicole Progin, Hans Peter Luchs



"Zoom lenses are ideal companions on our

numerous travels, mostly to Africa. Whether they are used at markets, at cultural events or for landscape photography, we especially value the ability to select just the right cropping quickly and without complicated technical manipulations. And all that with wonderful picture sharpness all the way into the four corners of the image, already at full aperture. Simply super."

Nicole Progin, Hans Peter Luchs, Switzerland

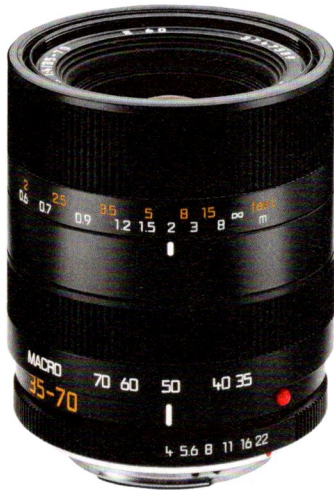
35–70 mm f/2.8 VARIO-ELMARIT-R ASPH.

The new fast 35–70 mm f/2.8 VARIO-ELMARIT-R ASPH. is a high-performance zoom lens with constant aperture. Excellent imaging performance and great ease of operation are the highlights of this outstanding lens. Its macro setting permits close-ups as near as 30 cm or 11 3/4", at a reproduction ratio of 1:2.8. The smallest subject area it covers is 67 x 101 mm or 2 5/8" x 4". The lens head does not rotate during focusing or zooming, so that polarizing filters can be used without restrictions.



A novel precision mechanism also provides smoother shifting of the various lens groups. The use of an aspheric glass lens surface keeps distortion very low.

Available as of summer 1999.



35–70 mm f/4 VARIO-ELMAR-R

A handy two-ring zoom lens with normal speed that offers very good imaging qualities as well as great ease of operation. Its high optical performance is achieved by means of a built-in aspherical lens element and other refinements. In the macro range, close-up pictures can be made at distances as near as 26 cm or 10 1/4". That corresponds to a reproduction ratio of 1:2.8. That in turn permits format-filling photographs of very small subjects.



The versatile LEICA-R zoom lenses are particularly practical while traveling. Then you immediately have exactly the right cropping available at your fingertips.



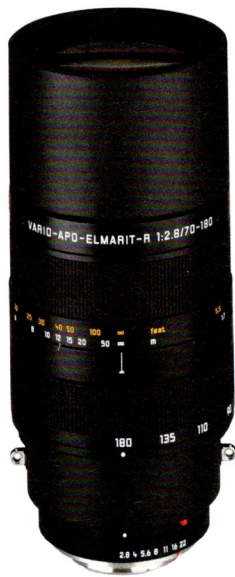
28–70 mm f/3.5–4.5 VARIO-ELMAR-R

Thanks to the extended focal length range, you can master everything with flying colors – from landscape and group photographs all the way to staged single portraits. Easy and pleasant to use. And many photographers also appreciate the separate control rings for focus and aperture.



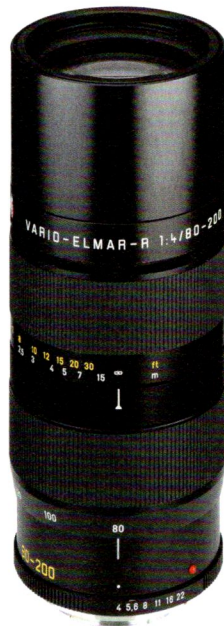
Always the right camera position: telephoto zoom lenses

With a telephoto zoom lens, you are able to select an optimal cropping of your subject from a distance, without having to change your camera position. Thus it is an ideal complement for every camera outfit. Leica telephoto zoom lenses are as pleasant to handle as they are outstanding in their imaging characteristics.



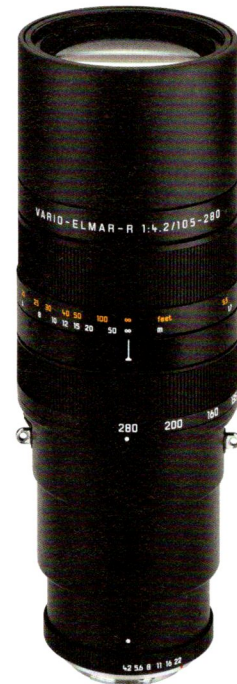
70–180 mm f/2.8 VARIO-APO-ELMARIT-R

This revolutionary lens is a recognized milestone in the development of lenses with adjustable focal lengths. With this lens it was possible to design an apochromatically corrected zoom lens with an optical performance that stands any comparison with lenses with fixed focal lengths – and that at high apertures! Even at full aperture, it is impressive because of its outstanding definition across its entire focal length range. Coma and astigmatism are practically non-existent. The two separate setting rings for focus and focal length make it especially easy to select the right cropping of your subject. The lens is also equipped with a rotating and locking tripod mount.



80–200 mm f/4 VARIO-ELMAR-R

The performance of this rotating zoom lens is quite comparable to that of first-class lenses with fixed focal lengths. It offers good to very good imaging quality with high resolving power and outstanding contrast rendition – and this over the full image area and over the entire focal length range. And it is quite compact and rests comfortably in the palm of one's hand. Its extraordinary near-focusing distance of only 1.1 m or 3'7 1/4" makes a smallest object field of 94 x 140 mm or 3 11/16" x 5 1/2" possible.



105–280 mm f/4.2 VARIO-ELMAR-R

A telephoto zoom lens with an especially large range of focal lengths that enables you to make large images even of far away details. This zoom lens too, is absolutely comparable to fixed focal length lenses of the highest quality. At every setting, its high-speed optical system delivers high contrast rendition and outstanding resolving power. Like the VARIO-APO-ELMARIT, it has two separate setting rings for focal length and focus, as well as a rotating and locking tripod mount that is especially useful with the longer focal lengths.

Well equipped for near and far: lens accessories

You can expand your creative freedom considerably with high-grade accessories for your LEICA R lenses. They provide ideal conditions for absolutely first-class close-up photographs. Or you can "expand" the focal length of your lens economically by using a LEICA APO-EXTENDER-R.



100 mm f/2.8 APO-MACRO-ELMARIT-R

In the close-up range, this magnificent lens focuses down to 45 cm or 1'5 3/4" for a reproduction ratio of 1:2. With the ELPRO 1:2 - 1:1 close-up attachment, which was especially designed for this lens, reproduction ratios down to 1.1:1 are possible.

Lens Order-No. 11352

ELPRO 1:2 - 1:1 Order-No. 16545



ELPRO close-focusing lenses

These four supplementary lenses significantly increase the focusing range of a lens in the close-up range, where they deliver outstanding imaging quality.

ELPRO close-up attachments are available for the following lenses:

50 mm f/2 SUMMICRON-R,
90 mm f/2 SUMMICRON-R,
90 mm f/2.8 ELMARIT-R, and
135 mm f/2.8 ELMARIT-R.

Order-No. 16541-544



60 mm f/2.8 MACRO-ELMARIT-R

Excellent for the close-up range down to 27 cm or 10 5/8". At its closest focusing distance, the reproduction ratio is 1:2, and in combination with the MACRO-ADAPTER-R it even reaches 1:1.

Lens Order-No. 11347

MACRO-ADAPTER-R Order-No. 14299



PHOTAR lenses and PHOTAR-ADAPTER-R

Three special lenses for use with the PHOTAR-ADAPTER-R on the AUTOMATIC FOCUSING BELLOWS BR-2. Corrected for magnified images. With their practically stepless magnification range of up to 18x, you explore the fascinating field of micro-photography.

PHOTAR-ADAPTER-R Order-No. 14259



APO-EXTENDER-R 1.4x

With this handy lens attachment you increase the focal length of a lens by a factor of 1.4x. The shortest focusing distance remains unchanged and the lens speed is reduced by only one stop. The fully automatic iris diaphragm function of the lens is maintained. The table on the right lists the lenses with which the APO-EXTENDER-R 1.4x can be combined.

Order-No. 11249



APO-EXTENDER-R 2x

For LEICA R lenses with focal lengths of 50 mm and higher and maximum apertures of f/2 or smaller. Combined with APO lenses, their superb imaging performance is fully retained. The APO-EXTENDER-R 2x has a fully automatic diaphragm coupling and it can be used without limitations with the aperture priority mode or with manual settings.

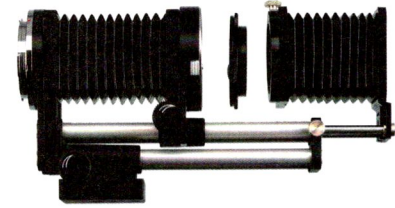
Order-No. 11269



Ring Combination for the close-up range

A three-part extension tube combination that is ideal for use with the 50 mm f/2 SUMMICRON-R lens to achieve reproduction ratios between 1:2 and 1:1. The reproduction ratio can be increased even further by means of additional center rings. The Ring Combination can also be used with 90, 135, 180 and 280 mm lenses.

Order-No. 14159



Focusing Bellows-R BR 2

Variable extension for stepless changes in the reproduction ratio. Integrated focusing carriage. The automatic iris diaphragm function of the lens is preserved, so that the aperture priority mode as well as manual settings can be used. All LEICA R lenses from 50 to 180 mm and PHOTAR lenses can be used on the Focusing Bellows.

Order-No. 16880

Compatible LEICA R lenses	With APO-EXTENDER-R 1.4x	With APO-EXTENDER-R 2x
50 mm f/2	–	100 mm f/4
60 mm f/2.8	–	120 mm f/5.6
90 mm f/2	–	180 mm f/4
100 mm f/2.8 APO	–	200 mm f/5.6 APO
180 mm f/2 APO	250 mm f/2.8 APO*	360 mm f/4 APO
180 mm f/2.8 APO	–	360 mm f/5.6 APO
280 mm f/4 APO	400 mm f/5.6 APO	560 mm APO
280 mm f/2.8 APO	400 mm f/4 APO	560 mm f/5.6 APO
400 mm f/2.8 APO	560 mm f/4 APO	800 mm f/5.6 APO
400 mm f/4 APO	560 mm f/5.6 APO	800 mm f/8 APO
560 mm f/4 APO	800 mm f/5.6 APO	1100 mm f/8 APO
560 mm f/5.6 APO	800 mm f/8 APO	1100 mm f/11 APO
800 mm f/5.6 APO	1100 mm f/8 APO	1600 mm f/11 APO
35–70 mm f/4	–	70–140 mm f/8
70–180 mm f/2.8 APO	–	140–360 mm f/5.6 APO
80–200 mm f/4	–	160–400 mm f/8
105–280 mm f/4.2	150–400 mm f/5.9	210–560 mm f/8.4

MACRO-ADAPTER-R

This intermediate ring increases the lens extension by 30 mm. Exposure metering at full aperture and the automatic iris diaphragm function are preserved, so

that aperture priority automatic exposure control as well as manual setting of shutter speed and aperture can be fully utilized on all LEICA R models. Order-No. 14299

Overview of LEICA R lenses

Lens designation	Focal length and speed in mm	Angle of view	Lens elements/groups	Smallest f-stop	Focusing range in m	Smallest object field in mm	Recommended filter size	Length in mm	Largest diameter in mm	Weight in grams	Order Number
SUPER-ELMAR-R	15 f/3.5	110°	13/12 ¹⁾	22	∞ - 0.16	70 x 106	built-in ²⁾	92.5	83.5	910	11 325
FISHEYE-ELMARIT-R	16 f/2.8	180°	11/ 8	16	∞ - 0.30	401 x 601	built-in ²⁾	60	71	460	11 327
ELMARIT-R	19 f/2.8	96°	12/10	22	∞ - 0.30	264 x 396	built-in ³⁾	60	71	560	11 329
ELMARIT-R	24 f/2.8	84	9/7 ¹⁾	22	∞ - 0.30	250 x 374	Series 8	48.5	67	400	11 331
PC-SUPER-ANGULON-R	28 f/2.8	73/93 ⁴⁾	12/10 ¹⁾	22	∞ - 0.28	146 x 219	Special filter 67 EW ⁵⁾	84	75	600	11 812 ^{12) 16)}
ELMARIT-R	28 f/2.8	76°	8/7	22	∞ - 0.30	192 x 288	E 55	48	67.5	435	11 333 ¹³⁾
SUMMILUX-R	35 f/1.4	64°	10/9 ¹⁾	16	∞ - 0.50	266 x 399	E 67	76	75	690	11 337
SUMMICRON-R	35 f/2	64°	6/6	16	∞ - 0.30	140 x 210	E 55	54	66	430	11 339
SUMMILUX-R	50 f/1.4	45°	8/7	16	∞ - 0.50	178 x 266	E 60	51	70	490	11 344
SUMMICRON-R	50 f/2	45°	6/4	16	∞ - 0.50	180 x 270	E 55	41	66	290	11 345
MACRO-ELMARIT-R	60 f/2.8	39°	6/5	22	∞ - 0.27 to 1:1 with adapter	48 x 72 (24 x 36)	E 55	62.3 (92.3)	67.5	400 (530)	11 347
SUMMILUX-R	80 f/1.4	30°	7/5	16	∞ - 0.80	192 x 288	E 67	69	75	700	11 349 ¹⁵⁾
SUMMICRON-R	90 f/2	27°	5/4	16	∞ - 0.70	140 x 210	E 55	61	69	520	11 254 ¹²⁾
APO-MACRO-ELMARIT-R	100 f/2.8	25°	8/6	22	∞ - 0.45 to 1:2 & 1:1 with ELPRO	48 x 72 (22 x 33)	E 60	104.5 (140)	73	760 (950)	11 352
APO-SUMMICRON-R	180 f/2	14°	9/6	16	∞ - 1.50 ⁶⁾	160 x 240	Series 6 ⁷⁾	176	116	2500	11 356 ^{14) 15)}
APO-ELMARIT-R	180 f/2.8	14°	7/5	22	∞ - 1.50	168 x 252	E 67	132	76	970	11 273
APO-TELYT-R	280 f/4	8.8°	7/6	22	∞ - 1.70 ⁶⁾	120 x 180	E 77/ Series 5.5 ⁷⁾	208	90	1875	11 360 ¹⁵⁾
APO-TELYT-R-MODULE-System	280 f/2.8	8.8°	8/7	22	∞ - 2.00 ⁶⁾	145 x 218	Series 6 ⁷⁾	276	123	3600	11 846
APO-TELYT-R-MODULE-System	400 f/2.8	6.2°	10/8	22	∞ - 3.70 ⁶⁾	207 x 310	Series 6 ⁷⁾	344	157	5900	11 847
APO-TELYT-R-MODULE-System	400 f/4	6.2°	9/7	22	∞ - 2.15 ⁶⁾	109 x 164	Series 6 ⁷⁾	314	123	3800	11 857
APO-TELYT-R-MODULE-System	560 f/4	4.5°	11/8	22	∞ - 3.90 ⁶⁾	154 x 231	Series 6 ⁷⁾	382	157	6100	11 848
APO-TELYT-R-MODULE-System	560 f/5.6	4.5°	9/7	22	∞ - 2.15 ⁶⁾	75 x 113	Series 6 ⁷⁾	374	123	3900	11 858
APO-TELYT-R-MODULE-System	800 f/5.6	3.1°	11/8	22	∞ - 3.90 ⁶⁾	106 x 160	Series 6 ⁷⁾	442	157	6200	11 849
VARIO-ELMAR-R	28-70 f/3.5-4.5	76-34°	11/8	22	∞ - 0.50 ⁸⁾	340 x 510 ⁹⁾ 150 x 225 ¹⁰⁾	E 60	76	70	450	11 364 ¹⁵⁾
VARIO-ELMARIT-R ASPH.	35-70 f/2.8	64-34°	11/9	22	∞ - 0.70 0.30 ¹¹⁾	436 x 654 230 x 346 67 x 101 ¹¹⁾	E 77	133	88	1050	11 275
VARIO-ELMAR-R	35-70 f/4	64-34°	8/7	22	∞ - 0.60 ⁸⁾ ∞ - 0.26 ¹¹⁾	350 x 525 ⁹⁾ 192 x 288 ¹⁰⁾ 67 x 101 ¹¹⁾	E 60	84	70	400	11 277 ¹⁵⁾
VARIO-APO-ELMARIT-R	70-180 f/2.8	34-14°	13/10	22	∞ - 1.70 ⁸⁾	435 x 655 ⁹⁾ 175 x 631 ¹⁰⁾	E 77	189.5	89	1870	11 279
VARIO-ELMAR-R	80-200 f/4	29-12.5°	12/9	22	∞ - 1.10 ⁸⁾	222 x 333 ⁹⁾ 94 x 140 ¹⁰⁾	E 60	165	71	1020	11 281
VARIO-ELMAR-R	105-280 f/4.2	23.2-8.8°	13/10	22	∞ - 1.70 ⁸⁾	281 x 421 ⁹⁾ 112 x 168 ¹⁰⁾	E 77	238	89	1950	11 268 ¹⁵⁾

1) with floating elements. 2) Filter revolver with UVa filter, yellow-orange filter and blue conversion filter for photographs in artificial light on daylight film. 3) Filter revolver with neutral density filter ND-1, yellow-green filter, orange filter and blue conversion filter for photographs in artificial light on daylight film. 4) Horizontal or vertical shift up to 11 mm; diagonal shift up to 9.5 mm.

5) Filter glass for special wide-angle holder with hood from B&W Filter Factory, P. O. Box 2463, D-55513 Bad Kreuznach, Germany. 6) Internal focusing. 7) In filter drawer. 8) Front group focusing.

9) At the shortest focal length. 10) At the longest focal length. 11) With the macro setting. 12) Lens without ROM and contact bar. 13) Lens with Order Number 11259 is also available without ROM and contact bar. This variation can also be used on the LEICAFLEX SL 2 without modifications. 14) Lens with Order Number 11271 is also available without ROM and contact bar. 15) This lens cannot be fitted with cams for LEICAFLEX SL or SL 2 cameras. 16) This lens can also be used on LEICAFLEX SL and SL 2 cameras without modifications.

Further information regarding Leica R-Systems accessories can be found in the "Handbook of the Leica system" (see rear cover)



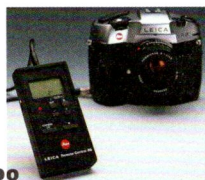
Ever-ready cases for LEICA R cameras

Available in various versions for the LEICA R8, LEICA R6.2 and other LEICA R cameras, some of them with a slightly greater front for longer focal lengths,

others for R cameras with attached winders. Made of elegant, supple black leather.



Ever-ready case for LEICA R 8 with lens up to the size of the 28–70 mm f/3.5–4.5 VARIO-ELMAR-R: Order-No. 14519. Ever-ready case for LEICA R8 with lens as in 14519 above and MOTOR-WINDER-R 8: Order-No. 14527



Remote Control R8

Electronic remote control device for remote release, available in a special version for the LEICA R8. *Order-No. 14202*

Power Pack MW-R8

A supplementary energy supply for the MOTOR-WINDER R8. A high-performance rechargeable battery that provides the winder with plenty of energy even under prolonged use or in extremely cold temperatures. It attaches to the tripod mount of the winder. *Order-No. 14250*

Accessories for every LEICA R outfit

An extensive array of practical accessories is available for LEICA R8 and LEICA R6.2 cameras. They bring you greater creative freedom in composing your pictures, they open up new fields of application, or they simply make picture-taking easier and more enjoyable.

Table-top Tripod

Compact, practical and stable. An indispensable aid for long exposure times. With three legs that fold together and a 1/4"- tripod thread.

Order-No. 14100



MOTOR-WINDER R8

If you prefer to let your LEICA R8 advance the film, wind the shutter and rewind the film... The winder is attached to the base of the camera and it blends harmoniously with its styling. It enables you to take picture sequences at up to 2 frames per second and it operates extremely quiet. (A faster MOTOR-DRIVE-R8 is in preparation). For the LEICA R6.2 and for other R cameras, there is the MOTOR-WINDER-R and the MOTOR-DRIVE-R. *Order-No. 14209*

Telescope Ocular LEICA TO-R

With the LEICA TO-R ocular, LEICA R normal-, telephoto- or zoom lenses can quickly become telescopes. With a 90 mm lens it produces a magnification of 7.2x, with a 180 mm lens it becomes 14.4x, and so on. Focusing is still performed with the respective lens. *Order-No. 14243*

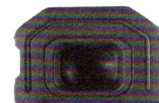
Pistol Stock

For all LEICA R lenses with tripod mounts. A very comfortable aid for handheld photography. *Order-No. 14282*

Eyecups

Available for the LEICA R8 in the standard size (as a replacement) and in a large version. They simultaneously serve as holders for correction lenses. The eyecups for the LEICA R6.2 and other LEICA R cameras can also be used in combination with correction lenses.

*Large Eyecup R8: Order-No. 14217
Small Eyecup R8: Order-No. 14218*



LEICA SF 20

A stylish electronic flash unit, compact and lightweight, to be taken along anywhere. Uncomplicated operation, illuminated data display. Variable flash output for fill-in flash. High output batteries for fast flash sequences. The distance between the lens and the flash tube reduces the red-eye effect. *Order-No. 14414. 24 mm Diffusion attachment for SF 20 flash unit: Order-No. 14417.*



Angle Finder

For photographs taken in any position and for inconspicuous photography "around the corner", or for pictures from a worm's eyeview. The angle finder can be switched to 2x magnification. *Order-No. 14300*



R-SYSTEM



Perfect snapshots with Leica compact cameras

You expect top quality results from your camera, but you don't want to spend much time with camera settings? And you always want to be ready for great snapshots? Then you should select one of the exquisite Leica compact cameras – with their outstanding lenses!

Wherever you are, you can capture beautiful moments easily and conveniently with a compact camera from Leica. Using them is child's play because of the logical and clear arrangement of their operating elements. And reliable automatic controls make all the settings automatically and precisely. Its autofocus measures the subject distance in a fraction of a second and sets the correct focus. Automatic programs ensure that your pictures are exposed properly in any light condition, even without your input. When there is not enough light, the flash will be activated automatically. It couldn't be any easier to take pictures. Still, when you so desire, our compact cameras permit you to control picture composition yourself at any time by means of manual settings. Leica compact cameras are handy and they fit easily in any coat pocket, so you will want to take them along everywhere you go. And since, on top of it all, they are so elegant, you will be happy always to have the "little one" with you. At a concert, for instance, or on your vacation. Or at a family get-together.

We are rigorously uncompromising with the optical performance of our compact cameras. Because even with an uncomplicated snapshot the result has to be perfect: a compact camera from Leica therefore gives you razor-sharp pictures with snappy contrast and accurate color rendition. We only use high-grade optical glasses for their lenses. Of course, the stringent standards for the manufacture of our lenses also apply to Leica compact cameras.

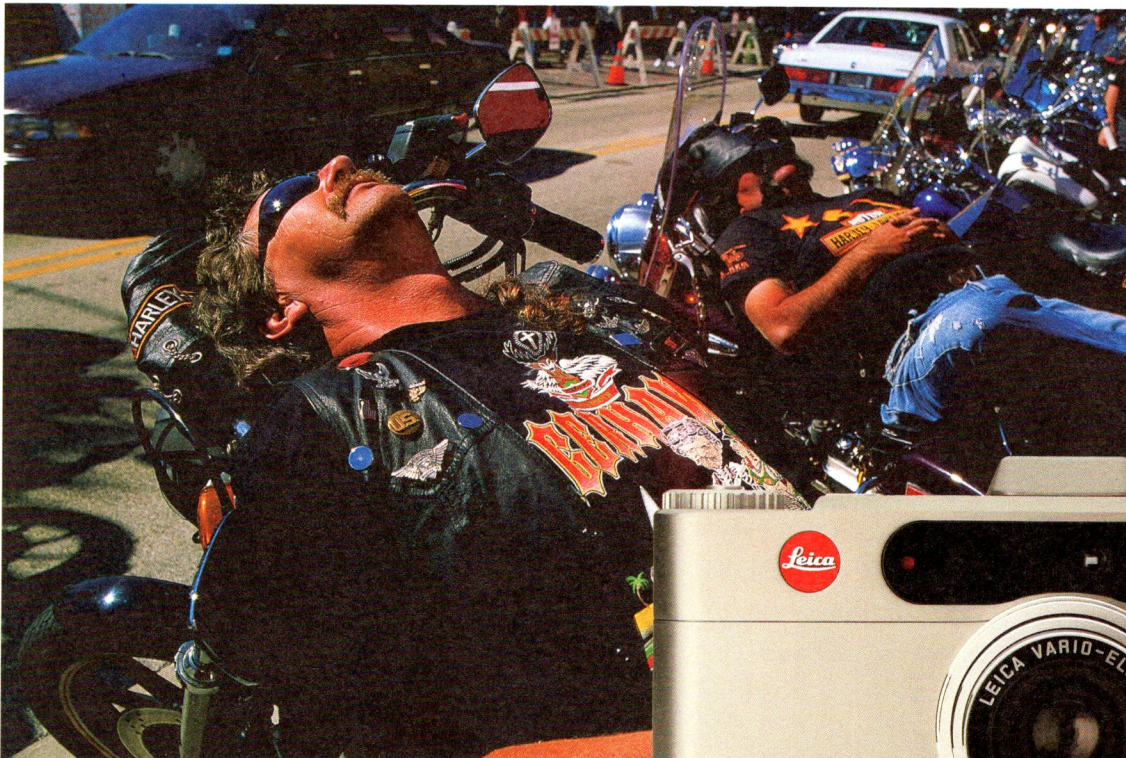
So, if you like to take pictures quickly and conveniently, and if you want to do so with high quality and high-performance optics, then a compact camera from Leica is exactly right for you. They will very quickly become your loyal and pleasant companion wherever you go!



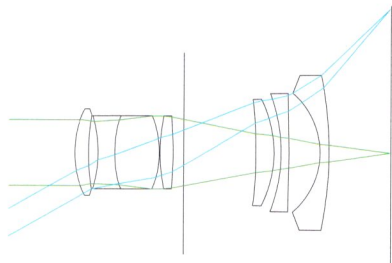
Luis Castañeda

The new light wizard in the compact class: LEICA minilux zoom

You like to take uncomplicated snapshots and you like to be able to vary the cropping of your picture, but you also expect excellent performance from the optics on your camera? Then you should select the LEICA minilux zoom with the high-grade titanium body and classic styling. The performance of the fast zoom lens sets new standards for compact cameras.



Luis Castañeda



The fastest zoom lens on any Leica compact camera

We designed the new LEICA minilux zoom camera so that you can enjoy the superb quality of a Leica lens every time and so that you can always conveniently find just the right cropping for your subject. And we equipped it with the fastest zoom lens on any Leica compact camera:

the newly computed 35-70 mm f/3.5-6.5 VARIO-ELMAR. The perfect results that you'll obtain with this high-performance zoom lens will delight you again and again. With the LEICA minilux zoom you can make brilliant snapshots quicker than ever before. The popular 35 to 70 mm range of focal lengths gives it the flexibility to master any situation.

The 35-70 mm f/3.5-6.5 LEICA VARIO-ELMAR zoom lens combines the versatility of a universally practical zoom range with the outstanding imaging characteristics of a top-quality lens.



Portraits, street scenes or landscape photographs – a brief touch with the finger, and presto, you have exactly the right cropping for your picture.

Precise control

You can confidently leave all the important settings to the reliable automatic functions of the LEICA minilux zoom.

- The autofocus automatically determines the exact distance to the subject you are sighting.
- In conjunction with center-weighted exposure metering, the programmed automatic exposure control ensures well-balanced exposures.
- When the light level is too low, the built-in flash will activate itself automatically.

Individual creative control

Therefore you can rely on the LEICA minilux zoom to perform all its functions with the highest precision to give you brilliant color pictures. But if you prefer to exercise your own creative control, then you simply switch off the automatic controls and give free rein to your creativity. The LEICA minilux zoom will let you determine how it should proceed. With its exposure value memory function, you can also base the exposure on portions of the subject that are not in the center of your composition. Or you can use manual distance setting to place the focus and the exposure on different parts of the image. Or you can



manually correct the exposure of very dark or very light subjects. It is also entirely up to you to decide whether you wish to capture the dramatic mood of a scene without the automatically activated flash. Or the other way around: for example, when you want to lighten a face in a backlit situation with just the right amount of flash illumination. And if you plan to use the same functions repeatedly, the LEICA minilux zoom can also store the respective settings in its memory. That way you always have your favorite settings instantly at your disposal.

An ideal couple:

LEICA CF and LEICA minilux zoom

The LEICA minilux zoom features a remarkable innovation for flash pictures:

it is equipped with a built-in flash as well as a hot shoe. The latter can be used for attaching the new accessory flash unit LEICA CF (metric guide number 20) when you wish to illuminate somewhat larger rooms or slightly more distant subjects. The

increased distance between the flash tube and the lens also helps to reduce the annoying red-eye effect decisively. The elegant styling of the new LEICA CF flash unit blends very nicely with the style of the LEICA minilux zoom, and their electronics are optimally matched. When the LEICA CF flash unit is inserted into the hot shoe, its function is immediately integrated into the automatic exposure controls of the camera.

LEICA minilux zoom and LEICA CF: dream couple for at home and for the road, for interiors and exteriors, for every occasion.

Order-No. LEICA CF: 18541



Luis Castañeda



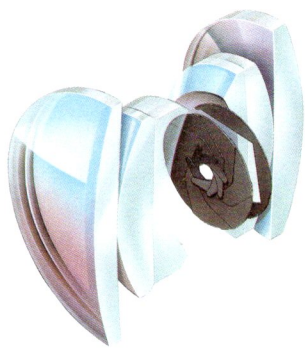
Luis Castañeda

The luxury of powerful optics: LEICA minilux

The LEICA minilux, with its elegant titanium body, offers you all the conveniences of a fully automatic camera. And, thanks to aperture-priority automatic exposure control, it gives much latitude to your creativity. The LEICA minilux documents its solitary top position with high-speed precision optics that stand any comparison with those in higher classes.



Páll Stefánsson



Superior optics

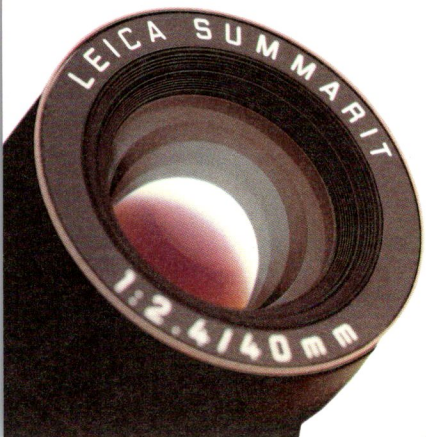
To state it right up front: The LEICA minilux has many advantages, but its outstanding feature is its superb high-speed 40 mm f/2.4 SUMMARIT lens. That is precisely what distinguishes it from everyday compact cameras, but which nonetheless makes it a welcome daily companion. The exceptional performance of this lens is bound to impress you immediately. With it, you

can still make brilliant snapshots under difficult light conditions where other cameras have long ceased to perform. And the proverbial quality of Leica lenses is once again confirmed by the excellent sharpness and contrast rendition of the 40 mm f/2.4 SUMMARIT.

Reliable automatic functions

The user-friendly automatic functions of the LEICA minilux make it easy to take

Optical precision that you can count on: six lens elements in four groups. With the focal length of 40 mm, everything in the frame is distortion-free.



good pictures and to react quickly. Its autofocus instantly focuses the lens at the correct distance. With great accuracy from 70 cm or 2' 3 1/2" to infinity. By gently pressing the shutter release button, you can store the distance setting and the exposure value in the camera's memory, and then you can calmly select the right cropping for your picture. Its precise programmed automatic exposure control gives you the confidence that all your pictures will always be exposed properly. Even when everything is in the dark. Because the built-in flash will activate itself automatically when the ambient light is insufficient.

Would you like creative latitude?

With the LEICA minilux you can also implement your own photographic ideas at any time. Do you wish to use a specific depth of field in your picture composition? Simply pre-set the appropriate f-stop on the LEICA minilux. Its aperture-priority automatic exposure control will then automatically determine the correct shutter speed that will produce a perfectly exposed rendition of your subject. Would you rather switch the flash off in order to capture the natural mood of a scene as authentically as possible? Pushing a button will do it! Conversely, the flash of the LEICA minilux can also be switched on intentionally, for instance when lighting a portrait of a person standing in the shade in front of a bright background. The LEICA minilux offers many possibilities for individual control of your picture composition, when

you so desire. You can even decide whether you wish to let the accurate autofocus function determine the correct subject distance or whether you prefer to set it manually. A practical feature, for example, when you photograph a subject through a reflecting display window.

Everything under control

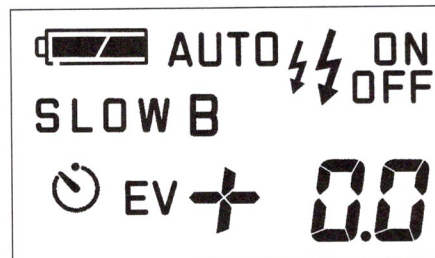
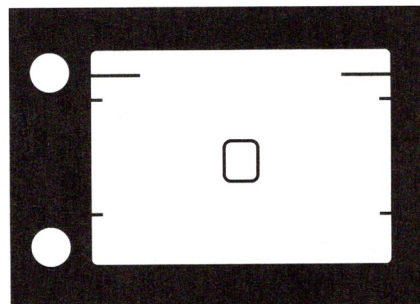
With the LEICA minilux you have everything in clear view. Once in the illuminated LCD display: it shows the shutter speed and aperture setting, what functions are active and whether the battery still has enough power. Second in the viewfinder, where you can find the information that is relevant to the success of the photograph: symbols for autofocus, close-up range, panorama cropping. And two light-emitting diodes (LED) for focusing, exposure and flash readiness, constantly keep you clearly and accurately informed of the status of things.

What else is useful

The pleasant experiences with your LEICA minilux can be enhanced even further with certain practical accessories. Like the remote cable release for vibration-free exposures. With the LEICA Mini-Tripod, that weighs only 87 grams or barely more than 3 ounces, you can always find a stable position for time exposures. And so that your valuable LEICA minilux is always securely protected, the attractive soft leather pouch with belt loop should definitely be part of your outfit.



You can use your index finger to switch the camera on and off, to set the distance manually when needed, and you use your thumb to set the picture framing: everything with one hand and with the control center of the LEICA minilux.



The viewfinder and the illuminated LCD display show all the relevant information about camera settings and functions clearly and accurately.

Maik Scharfscheier



Simply keep the shutter release button depressed and the camera will immediately expose another frame; and you can capture a series of beautiful moments: sequence exposures with the LEICA minilux.

Comfortable photography in its most beautiful form:

LEICA Z2X

This is the challenge we set for ourselves with this camera: to combine superb high-performance optics with precise functions and also with very elegant and modern styling that is instantly appealing. The result leaves nothing to be desired: the LEICA Z2X.



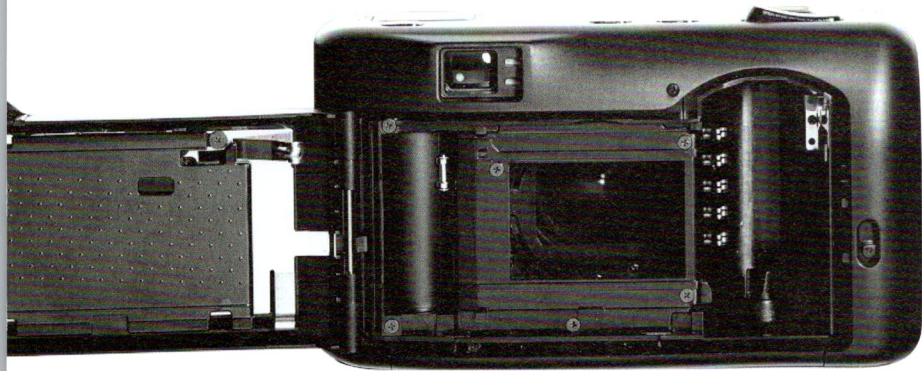
Bruce Gilden



Its exterior already suggests that the handy LEICA Z(oom)2X (with a range of twice its shortest focal length) also has a wonderful interior: high-performance Leica optics that ensure brilliant snapshots, and advanced technology that facilitates your picture-taking rather than burdening you.

Renowned Leica optics

First-class photographs require first-class lenses. The seven-element 35-70 mm f/4-7.6 LEICA VARIO-ELMAR zoom lens was computed by Leica and it features excellent optical performance. With this zoom lens you are bound to be delighted again and again, with razor-



sharp pictures, with snappy contrast and great color fidelity, that are unequalled in this class of cameras. You'll easily achieve brilliant snapshots with the LEICA Z2X – be they a view of an imposing building taken with the lens set at 35 mm, or a dramatic portrait with the lens set at 70 mm. It couldn't be any quicker or easier to take fabulous snapshots.

Bright real-image finder

Composing your pictures is delightfully easy with the brilliant real-image viewfinder of the LEICA Z2X. Everything you see will be in the picture. Clearly delineated markings for the autofocus field, close-up and panorama

photographs, are very helpful aids for perfect picture composition. And a clearly legible LCD display keeps you fully informed about all the important functions and settings. With the LEICA Z2X, you have everything under very convenient control so you can devote full attention to your subject.

Uncomplicated handling

Lightning-fast focusing? At the touch of a button, thanks to an accurate autofocus system! Reliable exposure control? No problem with the programmed automatic exposure control! Distance and exposure value settings are easy to store in the camera's memory by gently pressing

the shutter release button before changing your cropping. Automatic addition of flash when needed? But of course! And if desired, it can even be combined with lengthy time exposures. Camera controls? Arranged for maximum convenience and always easy to operate. A brief look, a gentle click – and your pictures are consistently perfect.



The LEICA Z2X is also available with a data back, in case you wish to keep track of all your photographs.



The Mini-Tripod provides stable support for slow shutter speeds. The Electric Remote Release Cable ensures vibration-free time exposures. Order-No. 18 540

LEICA
COMPACT
CAMERAS



Stammbaum · Familie



LEICA R8 1996



LEICA R8 1996



LEICA R7 1992



LEICA R7 1992



LEICA R6.2 1992



LEICA R6.2 1992



LEICA R5 1987



LEICA R5 1988



LEICA R6 1988



LEICA R6 1988



LEICA R-E 1990



LEICA R4 MOT ELECTRONIC 1980



LEICA R4 1982



LEICA R4 1984



LEICA R4s 1983



LEICA R4s-2 1985



LEICA R3 1976



LEICA R3 1976



LEICA R3 SAFARI 1977



LEICA R3 MOT 1978



LEICA R3 1979



LEICAFLEX SL2 1974



LEICAFLEX SL2 1974



LEICAFLEX SL MOT 1968



LEICAFLEX SL2 MOT 1975



LEICAFLEX SL 1968



LEICAFLEX SL 1968



LEICAFLEX TYP 1 1965



LEICAFLEX TYP 1 1965



LEICAFLEX Typ 2 1965



LEICAFLEX Typ 2 1967

ee



LEICA III f 1952



LEICA III f 1954



LEICA III g 1957



LEICA III g 1957



LEICA III d 1940



LEICA III c kältefest 1942



LEICA III a 1935
1/1000 sec



LEICA III b 1938
1/1000 sec



LEICA 72 18 x 24 mm 1955



LEICA II Typ 1 1933



LEICA II Typ 2 1934



LEICA I
ELMAR 1:3,5 1925



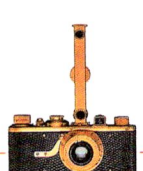
LEICA I
ELMAR 1:3,5 1925



COMPUR-LEICA
Typ 1 1926



COMPUR-LEICA
Typ 2 1928



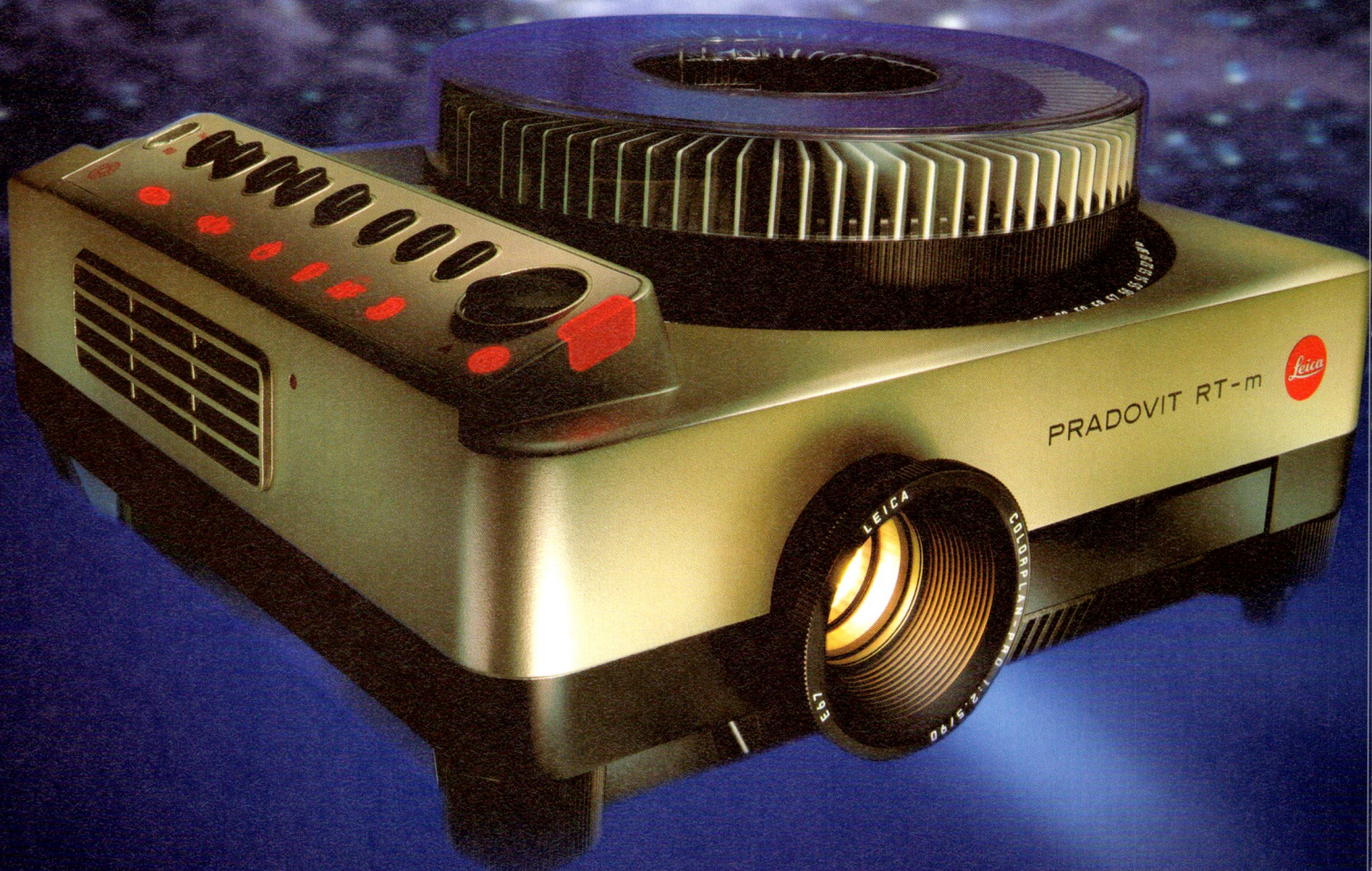
LEICA I
LUXUS 1929



LEICA I
HEKTOR 1:2,5 1930



PROTOTYP 2 1923



Greater pleasure in slides with LEICA PRADOVIT projectors

The full brilliance of your slides unfolds on the screen only when the projector delivers the necessary performance. That's why the "reproduction" sector is an important link in the Leica high-performance chain. And that is why we offer LEICA PRADOVIT projectors and their outstanding lenses.



After all, it would be a great pity if the high quality of your slides was not fully utilized during projection. With a LEICA PRADOVIT projector you can be sure that their crisp sharpness, their rich, saturated colors and contrast rendition are presented to their very best advantage. And the viewers will be delighted with your slide show. The optimized illumination technology with its precisely aligned optical axis assures a high light output. The projected image is extra bright all the way into its very corners. High-grade materials, meticulous fabrication, a low operating temperature and many sophisticated details ensure that you'll derive much pleasure from your Leica projector for a very long time. A PRADOVIT projector handles slide trays and slides very inconspicuously and with very high accuracy. Slides are focused virtually instantly by its autofocus function – regardless whether they are glass-mounted or not. And the remote control lets you adjust the focus manually at any time. The smooth and precise interplay of sensible electronics and sophisticated mechanisms makes it easy and convenient to operate the projector. And an extensive line of accessories

expands the range of applications of your PRADOVIT projector enormously – from accomplished lap-dissolve projection all the way to digitally controlled multi-media shows! With their superb optical performance, famous Leica projection lenses faithfully reproduce every detail of the original slide on the screen. Needle-sharp. Depending on



the projector model, the application and the size of the room or hall, you'll always find just the right lens for your particular needs in the extensive array of LEICA P, LEICA P2 and LEICA PRO projection lenses. No matter which of these high-performance lenses you select, in every case you will not only enlarge your beautiful slides and their brilliance but certainly also the applause of your audience.

Versatility and precision: PRADOVIT P 150, P 300, P 600

For entry into high-quality projection at modest cost, the LEICA PRADOVIT P 150 is the right choice. Models P 300 and P 600 are suitable for slide presentations at home, but also for large audiences. Their high optical performance makes every presentation a rewarding experience.



Luis Castañeda



Every projector in this series comes equipped with optics that stand out distinctly for uniform illumination, high light yield, and natural color rendition. Leading all of them is the renowned LEICA COLORPLAN P-2 projection lens with its exceptional sharpness and high-contrast performance across the entire image.

PRADOVIT P 150

The low silhouette of the 150-Watt PRADOVIT P 150 projector successfully blends functional design and functional technology. You can easily retrieve the remote control that is integrated into the projector housing and conveniently direct the show from an armchair. And with the cable-free infrared remote



control of the PRADOVIT P 150 IR projector, you can control the presentation from anywhere in the room.

PRADOVIT P 300 and P 600

The projectors in the P 300 and P 600 series offer great ease of operation and sophisticated technical details. Remote control cable with built-in light pointer, the choice of full light output or a conserving economy setting, a connecting socket for a reading lamp on the P 300 and P 300 IR models, or the single-slide attachment, this and much more provides comfort and enjoyable handling. With model variants P 300 IR and P 600 IR, the infrared remote control frees you from restrictive cables, giving you even more flexibility. Because of their outstanding optical performance and their very practical accessories, PRADOVIT P 300, P 300 IR, P 600 and P 600 IR projectors in

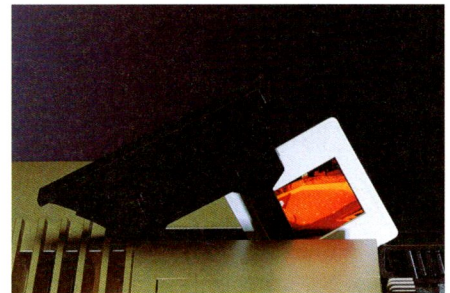
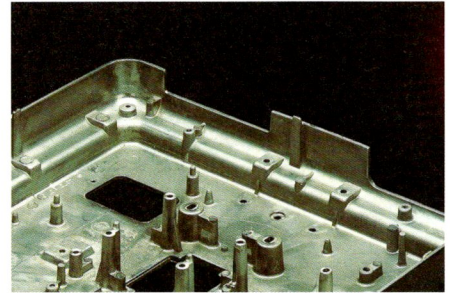
particular, are very versatile for different fields of application. With high-performance projection lenses with focal lengths up to 250 mm, they are also well equipped for presentations to large audiences. The powerful 250-Watt projection bulb produces enough light for large rooms and large projection screens. And with the accessory dissolve-control unit, these projectors are superbly suited for sophisticated dissolve projection shows.

A choice of slide trays

There is also versatility in the variety of slide trays: all the models in the P 150, P 300 and P 600 series accept LKM slide trays for 60 or 80 slides, standard



straight slide trays for 36 or 50 slides, or CS slide trays for 40 or 100 slides. P 600 series projectors even accept round slide trays for 120 slides. In combination with the accessory interval timer, with



A secure foundation for every application: the diecast aluminum chassis of the P 600 projector (top). The single slide provision for exchanging out-of-order slides and for projecting slides without a tray (above).

which you can adjust the duration of the projection time of the slides steplessly between 3 and 30 seconds, the round magazine is also suited perfectly for continuous projection at trade shows and exhibitions – an all-round convenience.



Brilliance to order: LEICA P2 projection lenses

There is a large choice of high-performance projection lenses for PRADOVIT projector models P 150 to P 600 to suit any room or hall and any type of application. With available focal lengths ranging from 60 to 250 mm and including several zoom lenses, you can select the perfect projection lens for your particular application.



Projection lenses for the PRADOVIT P 150 projector

With PRADOVIT P 150 and P 150 IR projectors, depending on the projection distance, you can choose from four high-speed LEICA P2 projection lenses with focal lengths of 60, 85 and 90 mm. The most popular lens, the 90 mm f/2.5 COLORPLAN is also available in a CF version with the same focal length and speed. The CF version is especially suitable for glassless slides in cardboard mounts. "CF" stands for "Curved Field", which means that the optical computation of that lens took into account the curvature of slides that are mounted without glass, in order to ensure that the familiar cardboard-mounted slides will also be projected with uniform sharpness across the entire image area.

60 mm f/2.8 ELMARIT-P2
85 mm f/2.8 HEKTOR-P2
90 mm f/2.5 COLORPLAN-P2
90 mm f/2.5 COLORPLAN-P2 CF

Projection lenses for PRADOVIT P 300 and P 600 projectors

The four lenses listed for the PRADOVIT P 150 projector can also be used on the P 300 and P 600 models. There are also several additional high-speed projection lenses with longer focal lengths as well as three zoom lenses available for P 300 and P 600 projectors. Advanced optical computation methods led to the SUPER-COLORPLAN-P2, whose optical performance surpasses even that of the renowned COLORPLAN-P2, to the point that its imaging quality is comparable to that of the APO lenses for our LEICA M and LEICA R cameras. Its highly corrected optical system provides excellent resolving power, brilliant illumination, true color fidelity, uniformly high contrast rendition and unequalled sharpness across the entire image area.

60 mm f/2.8 ELMARIT-P2
85 mm f/2.8 HEKTOR-P2
90 mm f/2.5 COLORPLAN-P2
90 mm f/2.5 COLORPLAN-P2 CF
90 mm f/2.5 SUPER-COLORPLAN-P2
120 mm f/2.8 ELMARIT-P2
150 mm f/2.8 ELMARIT-P2
200 mm f/3.4 ELMARIT-P2
70–120 mm f/2.8 VARIO-ELMARIT-P2

For PRADOVIT P 300 and P 300 IR projectors only:
85-150 mm f/4 VARIO-ELMARON-P2

For PRADOVIT P 600 and P 600 IR projectors only:
250 mm f/4 ELMARON-P2
110–200 mm f/3.5 VARIO-ELMARON-P2

More possibilities, more convenience: useful accessories

Practical, application-oriented accessories and elegant extras give you even greater enjoyment of LEICA PRADOVIT projectors. Application possibilities are expanded and handling becomes even more convenient. A complete overview of the accessories for LEICA PRADOVIT P 150, P 300 and P 600 projectors can be found on page 120.

Carrying cases

Useful, practical and convenient: in an elegant case, your PRADOVIT projector is always securely protected while in transit. The cases for P 300 and P 600 models have especially sturdy hard sides.



Detachable light pointer

A very convenient aid when you wish to point out specific details on your projected image. A practical feature: this pointer for the PRADOVIT P 150 projector can simply be attached to the remote control unit.



Slide trays

Leica offers several types of slide trays for PRADOVIT P 150, P 300 and P 600 projectors: the standard straight trays for 36 or 50 slides, the LKM tray for 60 or 80 slides. And the PRADOVIT P 600 also accepts a round tray for 120 slides.



Daylight projection attachment

When it is too inconvenient to set up a projection screen and to darken the room, Leica offers the daylight projection attachment for PRADOVIT P 300 and P 600 projectors, which can be attached to a projector easily and quickly. With a screen size of 30 x 36 cm or 11 3/4" x 1' 2 1/4", it already provides a respectable enlargement of your slides.



Laser pointer

With the bright red spot of the Leica laser pointer, you can point out any detail of your image clearly and distinctly. It is a slender, unobtrusive and handsome light pointer that can easily bridge 50 m or 164 feet. Comes with a clip for secure storage in the breast pocket of your coat.

Daylight monitor

The daylight monitor can be used with any current type of projector. It consists of a 23 x 23 cm or 9" x 9" projection screen and a polished mirror that produces a laterally correct projected reproduction of the slide. Folds flat like a book.



Infrared remote control IR-PCM

Everything under control, even without a cable connection: for greater convenience, you can upgrade your PRADOVIT P 300 and P 600 projectors with this infrared remote control, so that you can comfortably direct your slide presentation from any location in the room.



Further information regarding Leica projection accessories can be found in the "Handbook of the Leica system" (see rear cover)

LEICA
PROJECTORS

A bright performer: LEICA PRADOVIT P 2002 projector

Versatile, robust and dependable in heavy-duty professional use – those are the dominant characteristics of the LEICA PRADOVIT P 2002 projector. Great convenience, superior technology and superb projection lenses with focal lengths from 35 to 300 mm make this high-performance projector the star of the presentation hall.



Reiner Harscher



For my Leicavision slide presentations I want my pictures, which I took with Leica lenses, to be projected to their very best advantage. In addition to the high optical performance of the projection lenses, like the 90 mm f/2.5 Super-Colorplan, for instance, the high light output and the heavy-duty mechanisms are, of course, critically important to the success of my professional presentations.

Reiner Harscher, Germany



Equipped with heavy-duty precision mechanisms and sensible electronic details, a professional presenter can use the Leica straight-tray projectors to adapt himself to any presentation hall configuration. And he or she can even be flexible with the slide format: with the LEICA PRADOVIT P 2002 projector

you can employ not only the classic 24 x 36 mm format, but 40 x 40 mm super-slides as well.

Tough performer

All the important functional components of the PRADOVIT P 2002 projector are anchored on a stable, warp-free diecast

aluminum platform. That ensures an exact interplay of all the mechanical parts as well as a vibration-free, rock-steady position of the projector. It also supports heavy projection lenses like the 300 mm f/4.3 EPNOR-P securely, without the need for any auxiliary support.

Protective slide handling qualities

Slide trays are guided through the tray channels on rollers, so that there is no wear. A super-quiet slide gripper guides the slide into the image plane with great accuracy. Precise positioning is particularly important in dissolve projection. The P 2002 projector changes slides in a mere second. Therefore it handles rapid slide sequences in your dissolve show quite comfortably.

Critically sharp, automatically

The PRADOVIT P 2002 projector focuses automatically. Glassless slides as reliably as glass-mounted slides. If the transparency is not positioned exactly in the plane of sharpness, an electric impulse triggers the motorized autofocus function. That happens so fast that your viewers will hardly notice it. You can also focus manually. The next slide change will automatically reactivate the autofocus function. The latter can be switched off for professional audio-visual or panorama projections.

Just to be sure

Two fuses in two separate electrical circuits protect the PRADOVIT P 2002 projector against overloads and short circuits. And to forestall even minimal risks, a thermal protection breaker automatically shuts off the power supply when there is a danger of overheating. There is also a back-up light source: if

the main projector bulb fails, a spare bulb automatically swings into position in a fraction of a second and becomes energized. Viewers will only notice a brief flicker during the bulb change. Later on, after the show, the projector cover can easily be removed by loosening a single screw and the burned-out bulb can be replaced in a matter of seconds.



Carrying case

An elegant carrying case securely protects the PRADOVIT P 2002 projector with lenses up to 250 mm in place. Size: 37 x 44 x 21 cm / 1' 2 1/2" x 1' 5 1/4" x 8 1/4".

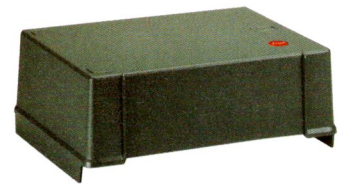


Timer

Automatic presentations: With the timer, projection times per slide between 3 and 30 seconds can be programmed.

Bright Light Kit

The light output of the aspherical lens, the heat filter and the interchangeable condenser lens is increased by approximately 20% by means of special surface coatings. A special advantage of these coatings is the fact that brilliance and color saturation are noticeably enhanced without significantly raising the temperature at the film gate – the slides remain very well protected.



Hood

A benign hood: sturdy and versatile, made of molded material. Protects the PRADOVIT P 2002 projector and also serves as a base. Comes with a small white projection screen for small projections.



Infrared remote control IR-PCM

Control without cables: Upgrade your PRADOVIT P 2002 projector with this infrared remote control and comfortably direct your slide show from anywhere in the room.



Daylight monitor

The daylight monitor can be used with any current projector. It consists of a 23 x 23 cm or 9" x 9" projection screen and a polished mirror that produces a laterally correct projected image. Folds flat like a book.

Further information regarding Leica projection accessories can be found in the "Handbook of the Leica system" (see rear cover)

Screen idols: LEICA P projection lenses

High-performance lenses are the heart of LEICA PRADOVIT P 2002 projectors, and they are fully comparable to those of the famous Leica cameras. Even with enlarged projected images, they vividly bring out all the sharpness and contrast, brilliance and color fidelity of your photographs.



Extremely well-corrected, LEICA P projection lenses very faithfully bring out the subtlest nuances that you captured with your photographs. With focal lengths ranging from 35 to 300 mm, you always have just the right lens available for any room and any screen size. And the COLORPLAN-P lens with the standard focal length of 90 mm is also available in a CF version that is particularly well suited for use with glassless slides in the familiar cardboard slide mounts.

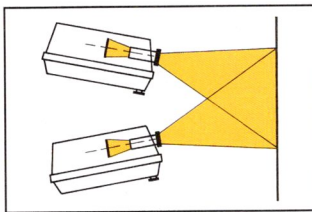
90 mm f/2.5 SUPER-COLORPLAN-P

An imaging performance even greater than that of the COLORPLAN-P makes the SUPER-COLORPLAN-P a top-of-the-line projection lens for the very highest expectations. In addition to excellent resolving power, its superbly corrected optical system produces evenly distributed high contrast and sharpness rendition all the way into the corners of the projected image. A versatile projection lens with the standard focal length.

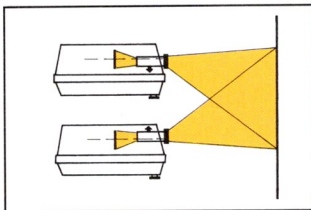


150 mm f/2.8 ELMARIT-P

A sophisticated optical computation and special, multi-coated lens elements in this lens produce outstanding imaging performance. The focal length is well suited for use in medium-large rooms.



For lap-dissolve projection at short distances, the projectors have to be inclined quite strongly, so that accurately super-imposed projected images are not possible.



With the 60 and 90 mm PC-ELMARIT-P projection lenses, the projectors can be aligned horizontally. The shifting capability of these lenses makes it possible to super-impose the projected images without distortion.

60–110 mm f/3.5 VARIO-ELMARON-P

110–200 mm f/3.5 VARIO-ELMARON-P

When you must give your slide presentation to different audiences, you have to adapt your projection technique to the respective projection halls. In order for you to be properly equipped for very diverse projection distances, the array of projection lenses for the PRADOVIT P 2002 projector also includes two zoom lenses. The 110–200 mm f/3.5 VARIO-ELMARON-P with its wide range of focal lengths gives you extra flexibility.

60 mm f/2.8 PC-ELMARIT-P 90 mm f/2.8 PC-ELMARIT-P

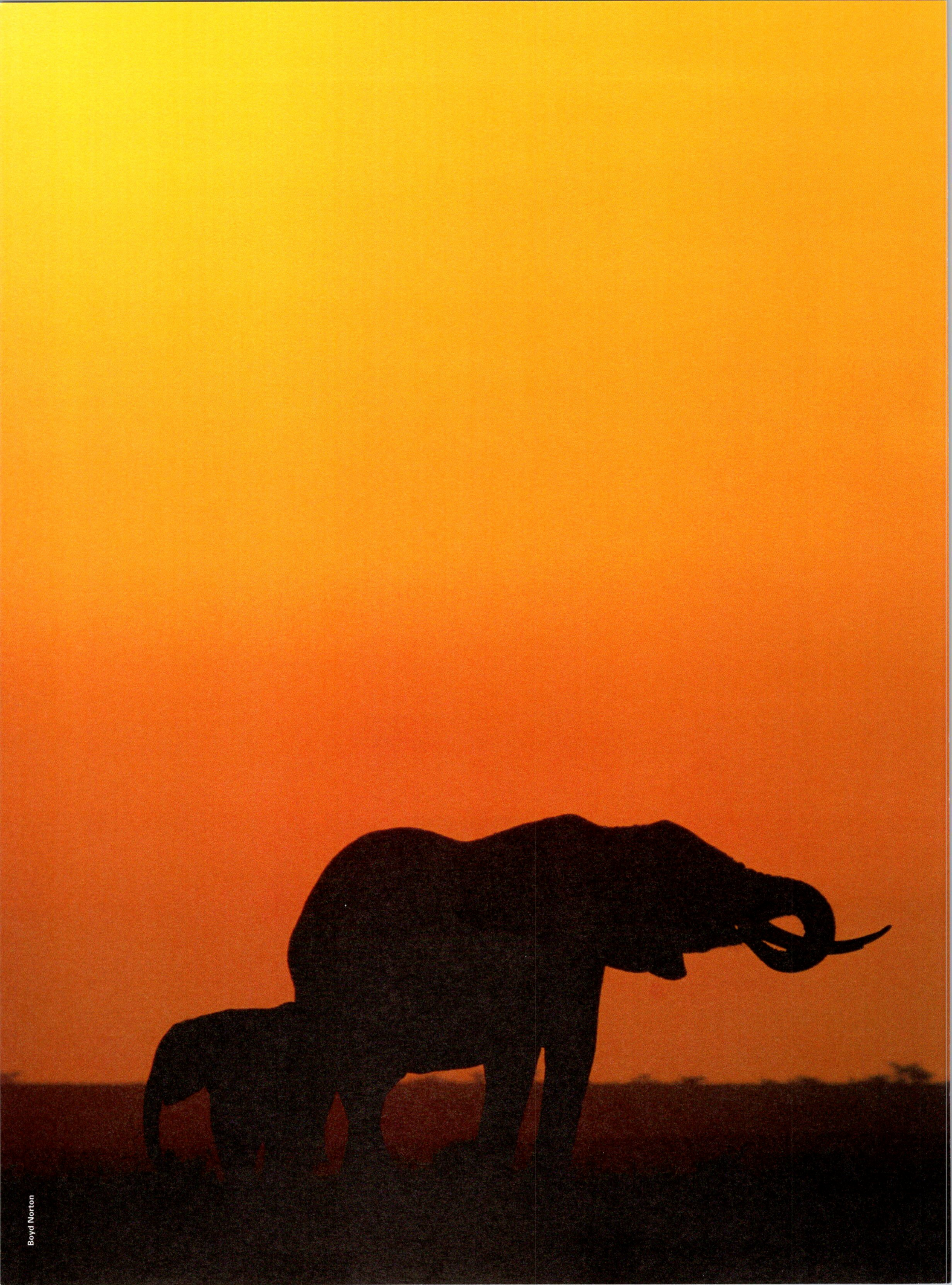
For flawless presentations of dissolve projection shows or for the inclusion of effect masks at short projection distances, two shift projection lenses were designed: the 60 and the 90 mm PC-ELMARIT-P. The prefix "PC" stands for perspective correction. The adjacent diagrams explain the way they function.



Focal length of the projection lens in mm

	35	50	60	90	120	150	200	250	300
1	0.95								
2	1.95	1.30	1.15						
3	2.95	1.95	1.75	1.10					
4	3.95	2.65	2.30	1.50	1.10				
5		3.30	2.90	1.85	1.40	1.10			
6		4.00	3.50	2.25	1.70	1.35			
7			4.00	2.65	1.95	1.55			
8				3.05	2.25	1.80	1.35		
9				3.45	2.55	2.05	1.50		
10				3.80	2.85	2.25	1.70	1.35	
11					3.15	2.50	1.85	1.45	
12					3.45	2.75	2.05	1.60	
13					3.70	2.95	2.20	1.75	1.45
14					4.00	3.20	2.40	1.90	1.55
15						3.45	2.55	2.05	1.70
16						3.65	2.75	2.15	1.80
17						3.90	2.90	2.30	1.90
18						4.15	3.10	2.45	2.05
19							3.25	2.60	2.15
20							3.45	2.75	2.25
21							3.60	2.85	2.40
22							3.80	3.00	2.50
25							4.30	3.45	2.85
30								4.15	3.45
35									4.00

Projection distances and screen sizes for the 24 x 36 mm format on 35 mm film. The projection of mixed vertical and horizontal slides requires a square screen whose width in m can be found in the above table.



Professional slide presentations with PRADOVIT RT projectors

The highest technical standard for sophisticated projection with round slide trays is offered by LEICA PRADOVIT RT-m and RT-s projectors. With the newly computed lenses of the PRO series. These projectors have all the prerequisites for the use of the very latest control systems for audio-visual slide shows and multi-media shows.

New!

Precision, convenience, dependability and the highest light output were our guidelines in creating the PRADOVIT RT projectors. That was the reason, for instance, why all components that affect the optical axis are made of stable zinc die castings. That ensures a durable and accurate optical alignment.

At the same time, we also sought to keep the weight of the projector down to a "portable level": the warp-free housing is therefore made of the sturdy, glass-fiber-reinforced molded material Lexan. And to further increase the longevity of the projector, the number of moving parts was kept to a necessary minimum. After all, your enjoyment of the superior performance of the PRADOVIT RT projector should last for many years! The spill-proof circular tray accepts slides that are up to 3.2 mm thick and it protects them with its transparent cover. The slide is lowered from the tray and positioned in the projection gate with the unequalled accuracy of one fiftieth of a millimeter. On a 3.5 m or 11 1/2 feet wide projected image that means a shift of, at the most, only 2 millimeters (less than 3/32



of an inch)! An impressive example of Leica precision.

The PRADOVIT RT executes whisper-quiet slide changes that are extremely precise and super-fast: it takes only 0.88 seconds. And if you decide to depart from the existing sequence of slides during the presentation – no problem. Because of separate controls for tray advance and slide changes, you can call up any position on the slide tray in a maximum of 3.5 seconds. Both the PRADOVIT RT-m as well as the RT-s can be used for single projection. Compared to the RT-s, the RT-m model offers certain additional features that integrate it perfectly into the world of multi-media, leaving nothing to be desired.

The superior technology of PRADOVIT RT projectors

All the functions of LEICA PRADOVIT RT projectors were thoughtfully designed for professional applications. Light output and heat dissipation were optimized systematically. Their operating convenience and their universal application possibilities leave nothing to be desired, even with the highest demands.



Michael Martin



“For years I have treasured the outstanding optics and the refined design of Leica lenses in conjunction with my photographic work in Africa. Now I am happy because I am able to use the new PRADOVIT RT projector to project my slides with equally fine optics, bright and sharp, on a 7.50 x 5 m (approximately 25 x 16 1/2 feet) screen.”

Michael Martin, Germany

Projection brought to light

A sophisticated illumination system with two pre-adjusted 300-Watt cold light reflector bulbs ensures the best possible light output in PRADOVIT RT-m and RT-s projectors. The light output is 25 to 30% higher than in comparable 250-Watt projectors. And with the PRADOVIT RT-m you even have an additional light boost in reserve: In halls where you have to project across large distances, the light output can be increased even further, by approximately 20%, by means of a “High” light switch.

The bulb technology of PRADOVIT RT projectors is the most refined in every respect. It includes a bulb that is accurately adjusted in relation to a parabolic mirror as well as a reserve bulb that is ready to be activated at any time. Should the main bulb fail, your slide presentation is not interrupted because power will automatically be fed to the reserve bulb and in a fraction of a second, a movable mirror swings into position to accurately direct the light from the reserve bulb into the main light path. The position of the reserve bulb remains unchanged.

Safe and convenient handling also applies to bulb changes: when you wish to replace the burned-out bulb after the presentation, you simply remove the entire bulb module from the projector with a single hand motion. The bulbs are then easily accessible and the new ones do not have to be adjusted after being inserted.

Cool and calculating

"Always remain nice and cool" is a slogan of the PRADOVIT RT projector. And a whole bundle of technical refinements brings about the highest degree of heat dissipation. That means that your slides, the bulb and the projector itself, are carefully conserved. A portion of the infrared heat radiation is immediately dissipated by the bulb itself through its own reflector. In addition, an infrared-absorbing coating on the mirror and the specially designed coating of the heat-protection filter and of the condenser lens, continually ensure that less heat is created in the projector to begin with. Beyond that, the axial fan blows plenty of outside air directly across the slide and cools the slide chute and the bulb module very effectively, even during hard, prolonged use.

Perfect details

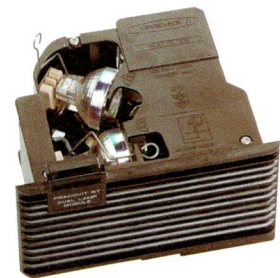
The two PRADOVIT RT-m and RT-s projectors feature all-round good handling. As single projectors or in groups, they open a wealth of application possibilities with practical extras for professional slide presentations. Here are some examples:

- The P bus interface permits problem-free connection with digital control systems for audiovisual and multimedia presentations. The PRADOVIT-RT-m features an additional AV slot which can be used to integrate individual control technique instructions directly into the projector.
- The automatic dark shutter that is in place when there is no slide in the gate, can be opened and closed manually when necessary. Useful, for instance, in lap-dissolve shows or for hard-cut effects.
- Even when the room is in total darkness, you have confident control of your PRADOVIT RT projector. The function symbols next to the command keys are discreetly illuminated to provide you with a good overview.
- The remote control connector socket accepts the infrared sensor as well as the remote control cable. The PRADOVIT RT can be switched to the stand-by mode with any of the remote controls. This is especially practical when you don't need the projector during certain parts of your lecture or presentation.
- The built-in timer can be set for projection times ranging from 1 to 60 seconds. And the reset function enables the PRADOVIT RT projector to be used for continuous projection without any additional control devices, even when the slide tray is only partly filled: after the last slide, the tray is automatically returned to the zero position, and projection starts again from the beginning.

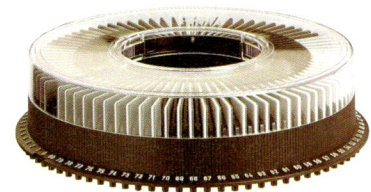
Ingenious technology and versatile control possibilities make PRADOVIT RT projectors equally convenient and versatile. They can be integrated into virtually any system.



Even in total darkness, you have the controls in view at all times: the function symbols next to the control buttons are discreetly illuminated.



The interchangeable bulb module with its hinged mirror ensures uninterrupted operation if the main projection bulb should fail – it activates the reserve bulb in fractions of a second.



The round slide tray and the reset function make unattended continuous operation possible. Even when the slide tray on the PRADOVIT RT is not completely filled, it will automatically return to the zero position after the last slide and start projecting again from the beginning.

Projection in a new light: LEICA PRO lenses

Ten new high-performance lenses, with focal lengths ranging from 35 to 300 mm, were designed especially for the PRADOVIT RT-m and PRADOVIT RT-s round slide tray projectors. These lenses have the standard diameter of 52.5 mm and a grooved tube that fit all current projectors for round slide trays. All the nuances that you captured in your photographs will be cast on the projection screen with breathtaking brilliance.



Páll Stefánsson



90 mm f/2.5 COLORPLAN-PRO

The classic lens among Leica projection lenses – virtually synonymous with superb optical performance. Now also in a version for PRADOVIT RT projectors. With its very versatile focal length, the COLORPLAN-PRO is useful for a wide range of applications, from home projection all the way to multivision shows.

35 mm f/2.8 ELMARIT-PRO

With its very short focal length, the 35 mm ELMARIT-PRO was designed for short projection distances. It is also extremely well suited for rear projection.

45 mm f/2.8 ELMARIT-PRO

A projection lens with a short focal length that is eminently suitable for rear projection and also for front projection in smaller rooms. It stands out for its freedom from distortion and for its uniformly high imaging performance that extends all the way into the corners of the picture.

90 mm f/2.5 SUPER-COLORPLAN-PRO

With an imaging performance even greater than that of the COLORPLAN-PRO, this projection lens becomes the top-of-the-line product that meets the very highest demands. Its highly corrected optical system, with five multi-coated lens elements, produces excellent resolving power as well as uniformly high contrast and crisp sharpness across the entire image area.

120 mm f/2.8 ELMARIT-PRO

An entirely new projection lens computation from Leica that sets new standards for this focal length. Our lens designers achieved the magnificent imaging performance of the 120 mm ELMARIT-PRO by means of sophisticated optical computations and with the use of special optical glasses, combined with very new fabrication technologies. For slide presentations in somewhat larger halls, the 120 mm f/2.8 ELMARIT-PRO is the projection lens of choice by the most demanding of lecturers.

150 mm f/2.8 ELMARIT-PRO

Like the 120 mm ELMARIT-PRO, this is also a completely new optical computation. The very same optical glasses with anomalous partial dispersion that were used, for instance, in the highly praised 180 mm f/2 LEICA APO-SUMMICRON-R lens, also give this lens its exceptional imaging performance.

200 mm f/3.4 ELMARON-PRO

A sophisticated Leica design with five multi-coated lens elements. Because of its long focal length, it is well suited for medium to large projection halls.

70–120 mm f/2.8 VARIO-ELMARIT-PRO

Its range of focal lengths makes the VARIO-ELMARIT-PRO a very practical choice for diverse lecturing situations. At 70 mm for smaller rooms – but with a mere twist of the hand, this lens can instantly be adapted to medium large presentation rooms.

100–300 mm f/3.5 VARIO-ELMARON-PRO

With its extra-broad range of focal lengths, this lens is particularly adaptable to a large variety of projection hall facilities. A short turn of the zooming ring – and the projector is adjusted precisely to the size and the distance of the projection screen. Outstanding imaging qualities at all focal length settings.

60 mm f/2.8 PC-ELMARIT-PRO 90 mm f/2.8 PC-ELMARIT-PRO

With the PC-ELMARIT-PRO lenses (PC = Perspective Correction), lap-dissolve shows and effect masks can be projected perfectly, even with short screen distances. Without PC shift lenses, lap-dissolve shows with short projection distances would require both projectors to be tilted, but even so, it would not be possible to achieve accurately super-imposed images. With PC shift projection lenses, however, the projectors can be aligned horizontally, they do not have to be tilted, and the two projected images can be super-imposed precisely.



Axel Nordmeier

From the lap-dissolve show to multivision

Lap-dissolves, picture and sound synchronization, hard or soft edge masks, panorama projection and other effects can turn your slide presentation into a memorable experience that no other medium can match. Technological precision makes that experience possible.



Everything is ready for the exciting show: Reiner Harscher making final preparations for his multivision show. Ten Leica projectors provide perfect, highly professional dissolve technology.

Who wouldn't be impressed by the smooth interplay of narration, music, sound effects and beautiful, large projected images? No TV production, no video clip can produce such magnificent images, such fascination! Whether you are creating a travel essay about distant lands, a captivating trade show audio-visual promotion or an impressive company presentation, with Leica technology, combined with your dramaturgical capabilities, you can capture the attention of viewers everywhere. Leica Camera AG in close cooperation with the leading specialty

manufacturer Stumpfl, can supply all the technical prerequisites for professional dissolve techniques and multivision shows. Particularly PRADOVIT RT and PRADOVIT P 2002 projectors with their highly effective accessories offer the professional the necessary creative freedom to utilize all the technical effects to realize his own concepts. But if you are initially looking for a cost-effective solution, Leica projectors are already suitable for dissolve presentations and multivision shows, starting with the PRADOVIT P 300 projector.

Control units for lap-dissolve technology

For an uncomplicated entry into lap-dissolve projection, the best solution consists of two Leica projectors combined with the manual dissolve control unit LEICA DU-24 M2. The dissolve rate is controlled by the speed with which you move the slider up or down. Therefore the dissolve rate can be varied from picture to picture. You can, for instance, without synchronizing pictures and sound, intuitively tailor the speed of the dissolve to the pace of the music. Or would you like to relax in your comfortable chair while the dissolve

show progresses? Thus preferring reliable automatic techniques? In that case you would select the LEICA DU-24 MT with its built-in timer as your control unit. Dissolve rates can be adjusted steplessly between 0 and 15 seconds, and projection times between 3 and 30 seconds. The control unit then runs the show automatically. When needed, a dissolve can also be effected manually. Mutual benefit: the close cooperation of the Leica Camera AG and Stumpfl GmbH organizations, in the field of audio-visual slide presentations and multi-vision shows, has been highly productive for many years, leading to outstanding results. At this point we would like to introduce you to three high-grade control units from Stumpfl GmbH, along with "Wings" control software, all of which are excellent for use with your LEICA PRADOVIT projectors.

Entry model SD 102

The easy to operate SD 102 control unit for uncomplicated dissolve projection with two PRADOVIT projectors already features many clever effects. You control the varying projection time from picture to picture with the infrared remote control that is included with the unit, and you set the unchanging dissolve rate with the timer. The data can be recorded on a cassette or reel audio tape. With the SD 102 control unit, you have the choice of six fixed dissolve rates. Even so, you can still shorten or lengthen the dissolve time by using the time button, or you can flip back and forth between images. The result is a lively dissolve show with synchronized images and

sound, which you can also store, and then present as often as you wish.

This one you can upgrade: SD 302

The SD 302 control unit opens the door to professional audio-visual presentations with two projectors: for live presentations, during which you can spontaneously effect the slide changes by means of an infrared remote control, or for programmed presentations, for which you have already programmed the complete sound and dissolve effects ahead of time. The SD 302 unit features a choice of nine dissolve rates, from a hard cut to 30 seconds. Plus numerous other functions, like "Freeze" for freezing the dissolve process, "Pulse" for pulsating effects, "Preset" for individual control of the projectors, or "Reverse" for reverse dissolves. In addition, the infrared remote control can be used for "flip-flop" effects and for manual focus correction. A large display serves as a clear control overview of all the functions.

High-end class: SD 404 POWER MEMORY

The programming power of this top-of-the-line unit with digital input and output for CD and DAT provides virtually every possibility of modern multivision shows. That is why experienced professional presenters favor the SD 404 PM control unit with its modular upgrading capability for implementing their sophisticated ideas for audio-visual slide and multimedia shows to slick perfection. Thanks to its uncomplicated, menu-driven operation, you can comfortably surf through the world of innovative control

techniques. With the classic modes, such as infrared remote control, sliding manual control, real-time and computer programming, you have everything under confident control: up to four projectors, the course of the entire presentation, and all the visual and acoustic effects. Since it would be a shame to run such a sophisticated show just once, the SD 404 PM naturally has a provision for storing all the commands, in both analog and digital modes, or on MemoryCard.

Enchanted software: Wings for Windows

This world-renowned program controls slide audio-visual and digital sound work at the highest level of sophistication. Even beginners can quickly learn to operate it without any problems. With Wings for Windows you no longer have to numerically enter dissolve commands, projection times, and the like into the SD control units. You enter the commands into the computer by mouse click; the connected projectors follow your entries on the monitor, on which well-designed graphics give you an overview of all the programmed sequences. The clear timeline indication makes it possible to work precisely, even with complex light sequences. Additional information about Wings for Windows and the SD 102, SD 302 and SD 404 POWER MEMORY control units can be requested from:
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 Telephone +43 (0) 72 49-4 28 11
 Telefax +43 (0) 72 49-42 81 14
 Internet: www.stumpfl.com
stumpfl@stumpfl.com*





Brilliant far-seeing views with Leica binoculars

Wherever you are traveling, Leica binoculars bring you fascinating visual experiences. Whether you are in a theater or on a trip, whether you are bird-watching or hunting, in the mountains or on the high seas: we have the right far-seeing solution.

It is not only for photographing your subject and for reproducing its image that we resolutely abide by the fundamental Leica principle of providing our clients with the highest optical performance together with durable precision mechanisms – we apply the same principle to our products for observation.

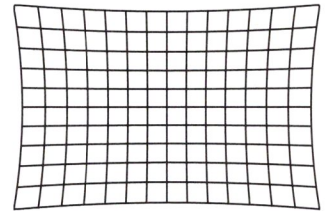
The high quality of the optics, which are the heart of every Leica binocular, is the result of the confluence of many measures that were coordinated with one another.

The types of optical glass that we use are not chosen just for the best suitability for the correction of aberrations, but also for maximum light transmission and neutral color rendition.

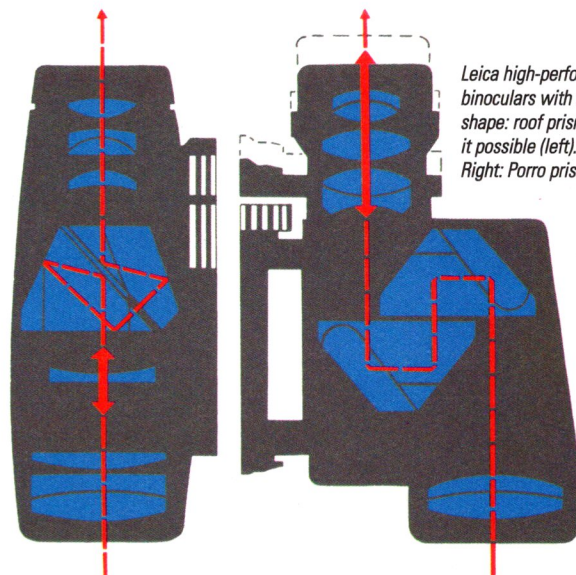
Other building blocks on the path to razor-sharp, bright and crisp images are sophisticated optical computations, glass fabrication with extremely tight tolerances, precise manufacturing, complex ion-aided multiple coatings and laser-assisted centering.

The heart of the optics in any Leica binocular are the roof prisms. They make the compact design possible, but they do require especially high-grade materials and extremely precise fabrication technologies. As an example, the Leica quality assurance specifications require

the 90-degree angle on the prism to be accurate to one second of a degree. If we were to enlarge the prism to a scale that would yield an edge length of 100 meters (328 feet), the maximum permissible deviation would be no greater than 1 millimeter (just over $1/32$ "!) And the "roof surfaces" of the prism are coated with a layer of so-called P40 material, with which Leica compensates the optical wave effects of phase shifts of light-rays. This improves the resolution of fine details and contrast rendition even further. And here is another example of Leica optics in the service of the user: in order to give the viewer a natural impression of the view when the binocular is turned



Creates a natural pictorial impression when a binocular is panned across a scene: pin-cushion correction in the optical system of Leica binoculars.

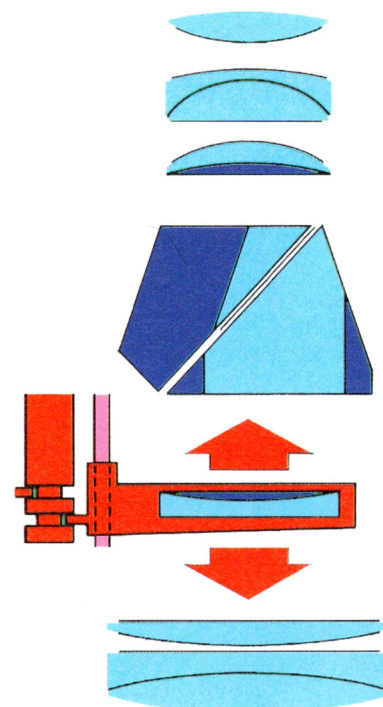


Leica high-performance binoculars with a handy shape: roof prisms make it possible (left). Right: Porro prisms.

from side to side, for instance in sweeping an area for wildlife, all binoculars are designed with a slight pin-cushion distortion. If you sweep the landscape with a fully distortion-free binocular, you will get the impression that you are looking at a rotating globe. This perception-based "globe effect" is prevented by a precisely compensating correction. You should test the results of all these efforts towards optical brilliance yourself. How remarkably

realistic a distant subject looks when it is drawn closer with a Leica binocular. How distinctly the finest structures and color nuances are differentiated. And how clearly all the details can be discerned, even under unfavorable light conditions.

It guarantees protection against air dampness, thus ensuring long-lived, accurate functionality: the true internal focusing mechanism of Leica binoculars.



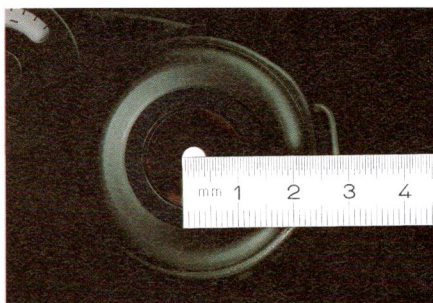
Numbers that speak for Leica

Some performance characteristics of a binocular can only be determined with reference to the fabrication techniques of the optical elements. Others are expressed in terms of established parameters. The latter also suggest the fields of application for which the binocular is suitable.

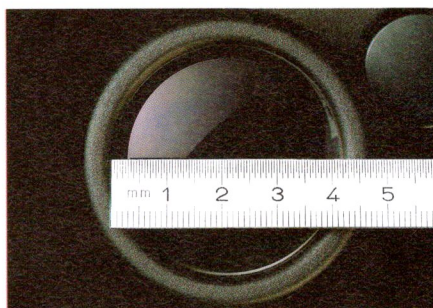
Binocular designations usually include two numbers. For example: LEICA TRINOVID 10 x 42 BA.

Front lens diameter and magnification

The number "10" represents the magnification factor. Therefore, with the TRINOVID 10 x 42 BA you see an object 10 times larger or 10 times closer than you would see it with your bare eyes. The number "42" in our example, indicates the diameter of the front lens in millimeters. Since the size of the front element determines how much light can pass through the binocular, it is a decisive characteristic for the performance of the binocular in twilight.



A criterion for applications in poor light: the diameter of the exit pupil (top left). Decisive for the performance of a binocular: Front lens diameter (bottom left).



Exit pupil

When you look at the eyepiece of a binocular from a short distance, you will see a small bright circular area: the so-called "exit pupil". The larger its diameter, the brighter will an image appear in twilight. On the TRINOVID 10 x 42 BA in our example, its diameter is 4.2 mm. A large exit pupil also makes it

easier to keep an object in view when you are standing on unsteady ground, for instance on a swaying sailboat. On Leica binoculars, a considerable optical design effort has been made to position the exit pupils back far enough so that wearers of eyeglasses too, can enjoy a full field of view.

Twilight factor

The so-called twilight factor is an indication of how well a binocular will perform in poor light. The higher this number, the better you can still discern fine details in twilight. The twilight factor can be calculated by taking the square root of the product of the magnification factor and the front lens diameter. In our example, this turns out to be a very high twilight factor of 20.5. The highest twilight factor of any Leica binocular is that of the TRINOVID 12 x 50 BA, which is 24.5 – an extremely high twilight factor. In addition to this purely mathematical value, the more thoroughly the optical system of a binocular has been corrected, and the higher the quality of its coatings, the better will be its detail rendition in poor light conditions. That is why the superb performance characteristics of Leica binoculars stand out, not only in bright daylight, but especially at twilight.

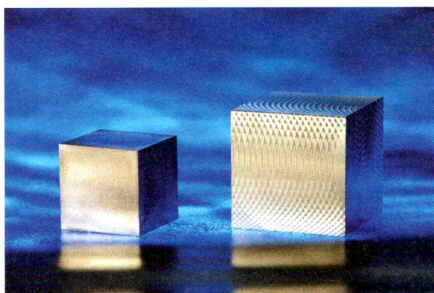
Example: TRINOVID 10 x 42 BA

Magnification = 10x; Front lens diameter = 42 mm

$$\text{Exit pupil} = \frac{\text{Front lens diameter}}{\text{Magnification}} = 4.2 \text{ mm}$$

Twilight factor =

$$\sqrt{\text{Front lens diameter} \times \text{Magnification factor}} = 20.5$$



Approximately 65% lighter than steel: a weighty argument in favor of aluminum as the raw material for Leica binocular housings.



Important interior optics and mechanisms are securely protected: special sealing elements make Leica binoculars and spotting scopes impervious to water pressure.



Withstands a great deal of harsh use: the handy polyurethane armoring.

Field of view

Another important factor in the evaluation of the characteristics of a binocular is its field of view. It is usually expressed in terms of the width of the field seen with a particular binocular from a distance of 1000 meters (or 1000 yards). The smaller the magnification factor, the larger the field of view, generally. With the TRINOVID 10 x 42, for instance, the field of view is 110 meters at 1000 meters (or 110 yards at 1000 yards), but with the TRINOVID 8 x 42, however, it is 130 meters (or 130 yards).



Perfect form for perfect viewing

Rigorously selected raw materials and the highest mechanical precision ensure flawless, reliable function of your Leica binoculars for many decades to come. Even under the harshest conditions. And their ingenious ease of handling make their use extremely comfortable.



A major effort was made in the design of the eyepieces of Leica binoculars to ensure that eyeglass wearers can also enjoy the full field of view.



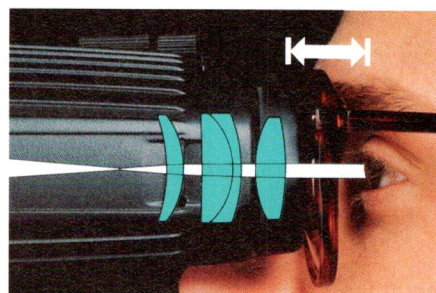
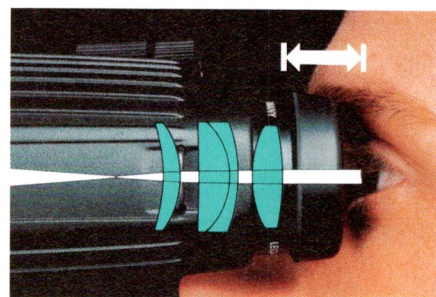
Another Leica development: the extremely precise guide channel for the focusing lens.

Robust and watertight

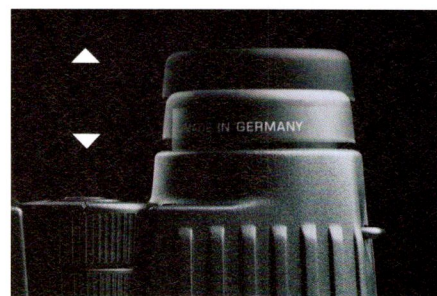
A rigid all-metal housing effectively protects the superb interior components of Leica binoculars. They remain in accurate shape, even under extremely harsh use. And continuously so. There is a solid reason for the 30-year guarantee that is granted for every TRINOVID binocular. To seal even the tiniest pores in the housings and to protect the valuable optics and mechanisms inside from dust and humidity, the bodies of the 32, 42 and 50 series of binoculars are impregnated in a process that lasts several hours. Sealing elements that were originally developed for air- and space travel then complete the procedure, making the interior 100% airtight.

True internal focusing

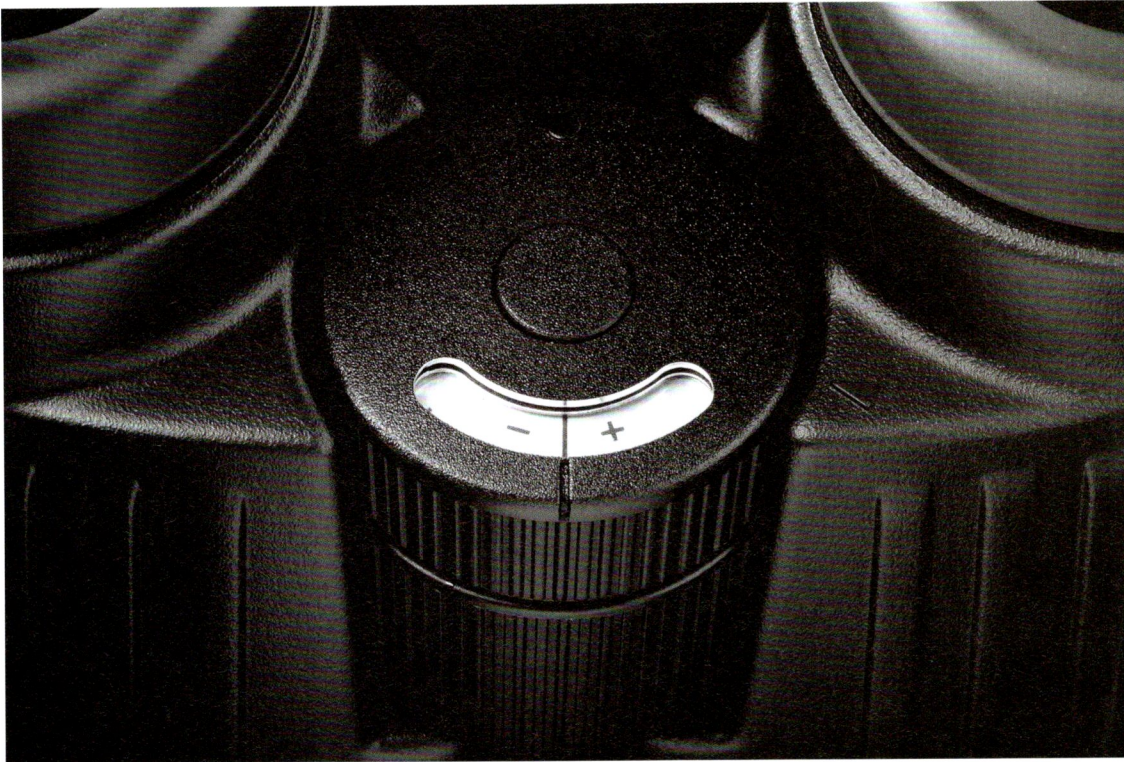
In order for the helical mounts to work smoothly, even under great temperature fluctuations, they are fabricated exclusively of aluminum and brass. An ideal combination of materials that makes lubricants virtually unnecessary and thus provides uniform and silky smooth movement during focusing. With true Leica internal focusing, only one lens in each half of the binocular is shifted for focusing. Nothing is shifted on the exterior surfaces of the binocular. Since there are no external guiding



Whether or not you wear eyeglasses, thanks to the practical sliding eyecups, your eyes are always at the right distance from the ocular.



Without eyeglasses: the extended eyecups shield the eyes from stray light. With eyeglasses: push in the eyecups, and the eyeglass lenses can move close to the ocular.



It sets and fixes the diopter values; it focuses both halves of the binocular: the ingenious multi-function knob on Leica binoculars.

surfaces, neither dirt nor humidity can be drawn inside. The view through the binocular remains bright and clear in any weather.

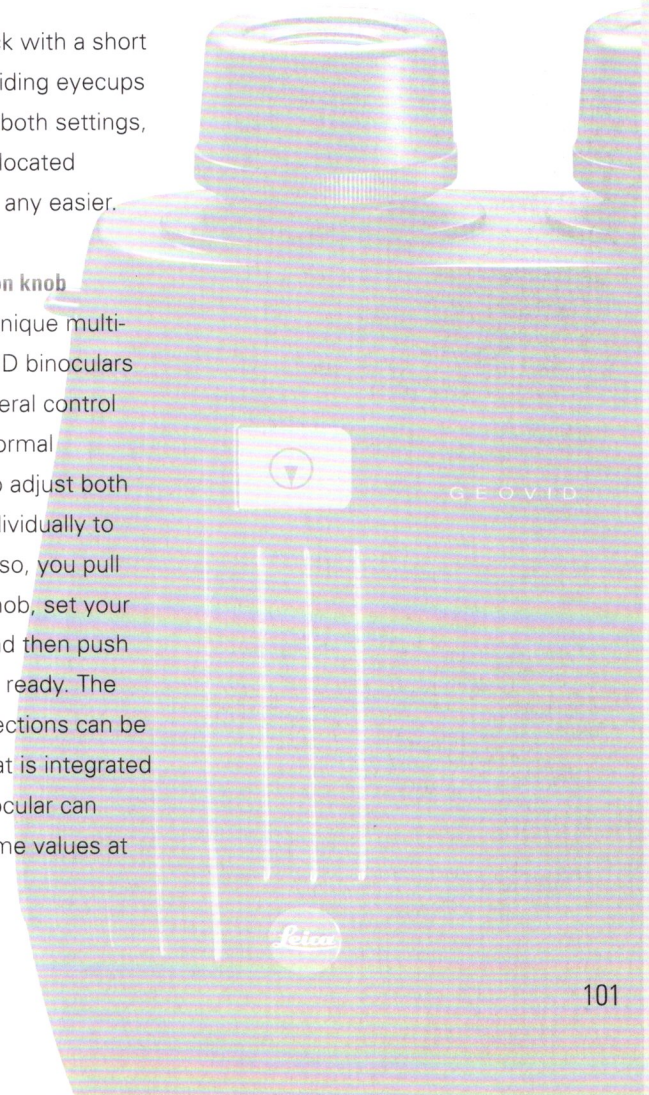
Sliding eyecups and oculars for eyeglass wearers

There are many binoculars that place eyeglass wearers at a disadvantage – they will have a markedly smaller field of view. By comparison, Leica binoculars and spotting scopes offer everyone across the board, the same, unrestricted field of view. With or without eyeglasses. Because a concerted effort was made in the optical computations to position the exit pupil far back. That enables the eyes always to be at the proper distance from the ocular: When you look through the binocular without eyeglasses, you simply pull out the sliding eyecup. If you wear glasses,

you simply push them back with a short push of your finger. The sliding eyecups firmly lock into position in both settings, so that they cannot be dislocated accidentally. It couldn't be any easier.

A sophisticated multi-function knob

Developed by Leica, the unique multi-function knob on TRINOVID binoculars ingeniously combines several control functions. In addition to normal focusing, you can use it to adjust both halves of the binocular individually to the respective eye. To do so, you pull out the front half of the knob, set your personal diopter values and then push the knob back in – and it's ready. The values are fixed. The corrections can be read on a diopter scale that is integrated into the knob and the binocular can quickly be reset to the same values at any time later on.



Brilliance in a pocket format: Leica compact binoculars

The advantages of LEICA TRINOVID binoculars are not a matter of size. The fascination of superb optical performance and precise mechanical details is also present in Leica compact binoculars. Their great plus: they fit in your pocket, and you can comfortably take them along anywhere.



Luis Castañeda

To see and to be seen: with a Leica compact binocular you are always seated in the first row.

Outstanding test results have confirmed the superb quality of LEICA TRINOVID compact binoculars again and again. They offer the same quality characteristics as their bigger "brothers", but with distinctly smaller sizes and weights. High-grade optical glasses and complex optical computations ensure razor-sharp and snappy bright images. Sliding eyecups, diopter correction, the silky-smooth focusing knob, they all ensure comfortable and very easy handling.



True internal focusing and a robust metal housing make Leica compact binoculars weatherproof and water resistant. The precise interplay between all optical and precision mechanical components is preserved, even under hard usage.

LEICA TRINOVID 8 x 20 BC/BCA

This compact lightweight features brilliant image rendition, and with its approximately 230 grams, or just over 8 ounces, it is always conveniently handy, when an interesting subject turns up. With the small size of about 9 by 6 cm or 3 9/16 by 2 3/8 inches, it fits neatly in most any pocket. Thanks to its 115 m wide field of view at 1000 m (115 yds. at 1000 yds.) and its extremely close near-focusing distance of only 3 meters (or 9 ft. 3 in.), it has very versatile applications. A popular binocular, and ladies often prefer the version with elegant titanium finish.



"Highest quality and dependability in the smallest space, even under extreme weather conditions." Reinhard Patscheider, mountain guide and extreme climber, with his compact binocular from Leica.

LEICA TRINOVID 10 x 25 BC/BCA

As small as it is powerful, this compact binocular guarantees outstanding detail recognition, even of very distant subjects. It distinguishes itself by its superb sharpness and contrast rendition, and with only 250 grams (or less than 9 ounces), it is a pleasant lightweight. All in all, a very handy, excellent performance binocular for daylight observation. It is always the right binocular when the outfit has to be kept to a minimum without sacrificing top performance.



Versatility for demanding clients: the 32- and 42-series LEICA TRINOVID binoculars

LEICA TRINOVID high-performance binoculars of these series are equally suitable for everyday applications and for extremely harsh use as well. That's because they embody an outstanding synthesis of exceptional imaging quality and robust durability.



Luis Castañeda



"I use Leica binoculars for my activity as an ornithologist, because their high resolving power

makes detailed observation possible, even under critical light conditions. Their robust, yet compact design has proven itself in the deserts of the Middle East, just as it has in the Antarctic, and the brilliance of its optics allow fatigue-free viewing."

Hadoram Shirihai, Israel

LEICA TRINOVID 10 x 32 BA

The TRINOVID 10 x 32 features compact design, high magnification and outstanding imaging quality. It stands out for its remarkable close-up range, down to 2.60 m or 8' 6". Thus you can not only enjoy brilliant distant observation, but you can also use this wide-angle binocular to study butterflies or dragonflies at close range.

LEICA TRINOVID 8 x 32 BA

If you are looking for a versatile binocular with compact dimensions and high optical performance, then the TRINOVID 8 x 32 BA offers you an excellent combination. With its large field of view of 135 m at 1000 m (135 yds. at 1000 yds.), and a close-up distance of

only 3.20 m or 6' 6", it is a great all-round binocular for near and far. The ideal companion for hikers, mountain climbers and nature lovers.



LEICA TRINOVID 7 x 42 BA

This 7x binocular with high light-gathering power is primarily designed for extreme viewing conditions. Its special characteristics: a 6 mm exit pupil and a very large and super-bright field of view of 140 m at 1000 m (140 yds. at 1000 yds.). They let you keep fast-moving subjects firmly in sight, even under difficult light conditions. Another plus: with the TRINOVID 7 x 42 you can keep everything well in sight, even when your hands are not as steady as usual – for instance after a strenuous hike. Because of its high light-gathering power, this binocular offers a bright image well into dusk.



Watersport Set:
The LEICA TRINOVID 7 x 42 BA is also available in a set for watersport fans who are conscious of style – with elegant navy blue armoring. With a floating carrying strap, eyepiece cover, and a navy blue ever-ready case made of waterproof Cordura.



LEICA TRINOVID 8 x 42 BA

With its well-balanced performance characteristics, this binocular is a genuine multi-talent. It is ideally suited for those who are looking for an all-round binocular for all sorts of applications. Its field of view of 130 m at 1000 m (130 yds. at 1000 yds.) always provides you with a good overview, and its medium magnification reduces the danger of a shaky image. With a 5.35 mm exit pupil, the TRINOVID 8 x 42 still has ample reserves for calm and precise observation, even under poor light conditions.



LEICA TRINOVID 10 x 42 BA

The prominent feature of this binocular is its high magnification factor. With a 10-power magnification, you are optimally equipped for observing small and distant subjects. In sports, at horse races, while hunting, or for the observation of animals. Ornithologists especially, really appreciate the TRINOVID 10 x 42 because it enables them to clearly identify the characteristics of different species from a distance. Outstanding sharpness and contrast rendition, and its high resolving power, enable the observer to differentiate subtle details, even in the waning light of dusk.



Hunter's Set:
With this set you are certain to make a good impression on wildlife: Hunter's Set with green-armored LEICA TRINOVID 10 x 42 BA, green Neoprene carrying strap, eyepiece cover and green ever-ready case of watertight Cordura.

Binocular highlights: the 50-series of LEICA TRINOVID

The outstanding optics with a front lens diameter of 50 mm make the TRINOVID 8 x 50 BA, 10 x 50 BA and 12 x 50 BA precision binoculars into high light-gathering power instruments that can demonstrate their superior performance not only in poor light conditions. They feature an unequalled resolving power.



Franz Bogyi



LEICA TRINOVID 12 x 50 BA

Acceding to the wishes of numerous users who wanted a binocular with extra high magnification, Leica has developed the new TRINOVID 12 x 50 BA binocular. The very high demands on imaging performance at 12-power magnification were satisfied by means of a new optical computation, combined with the very latest fabrication technologies. In spite of the increased magnification factor, it can be held steadily and it offers a subjective angle of view of 68° and a field of view of

100 m at 1000 m (1 yds. at 1000 yds.). Its extremely high twilight factor enables the viewer to distinguish the finest details, even under unfavorable light conditions. In short: the binoculars with the highest performance optics that Leica has ever developed.



LEICA TRINOVID 8 x 50 BA

A universal binocular with very high light-gathering power and surprisingly compact and slender design. Its exceptionally large 6.25 mm exit pupil ensures an optimal light utilization; the TRINOVID 8 x 50 BA produces an extraordinarily brilliant image well into sundown. Your eyes will appreciate the optical advantages of this professional instrument in every respect: fatigue-free observing even under extreme situations are another major plus of this binocular.



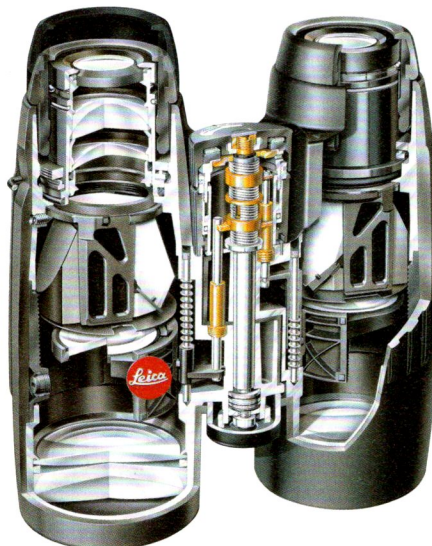
In addition to the standard version in black, the LEICA TRINOVID 8 x 50 BA is also available in a Hunter's Set, with green armoring and with a hard black leather case.

LEICA TRINOVID 10 x 50 BA

Especially under poor light conditions, this top-class binocular shows distinctly why it is among the very best in the world. The finest details can be discerned perfectly, even at dusk. The TRINOVID 10 x 50 BA has high light-gathering power and it guarantees excellent contrast rendition and outstanding resolving power all the way into the close-up range of 4.80 m or 15' 9" in. It's the first choice for the professional in every respect, and because of its 10-power magnification, it is particularly recommended for nature friends and ornithologists.



The most modern fabrication methods and the highest precision ensure a brilliant image: LEICA TRINOVID – the guarantee for state-of-the-art optical and mechanical performance.



The most important plus points of Leica binoculars:

- Brilliant viewing because of superior optical performance.
- Permanently clear viewing because of flawless sealing of the all-metal housing with added nitrogen filling.
- Comfortably easy focusing and diopter correction because of the multi-function central focusing drive.
- Very large field of view – with or without eyeglasses – because of optimally designed eyepieces and instantly adjustable sliding eye cups.
- Extraordinarily close near-focusing distances: down to 2.60 m or 8' 6" with the LEICA TRINOVID 10 x 32 BA.
- Enclosed construction with true internal focusing offers the very best protection of internal precision components.
- Ruggedness and longevity reassured by the use of all-metal housings with shock- and sound-absorbing polyurethane armoring.
- Eyestrain is prevented by the enduring precise calibration of the optical systems in each half of the binocular.
- 30 years guarantee based on more than 140 years of experience in optical and mechanical precision.

Orientation as you like it: LEICA GEOVID

The LEICA GEOVID 7 x 42 BDA is far more than just a superb binocular. It combines high-grade Leica optics with a laser rangefinder and an electronic compass, all in a single instrument. For demanding observation and accurate orientation – in the field, at sea or in the air.



Roger Garwood

State-of-the-art optics, a laser rangefinder and a digital compass, all contained in a seawater-protected binocular housing; the LEICA GEOVID 7 x 42 BDA offers three functions in a single instrument.



Leica introduces a new generation of binoculars with the GEOVID. It incorporates, of course, the unrestricted peak-performance of Leica optics. In terms of sharpness, contrast, range and resolving power, the LEICA GEOVID distinguishes itself with outstanding characteristics. And in conjunction with its precise electronic measuring technology it becomes a trendsetting high-tech instrument for demanding professional applications.



With an infrared rangefinder...

The accurate infrared rangefinder of the GEOVID, with a range of 1000 m or 3280 ft. (nearly 1100 yds.), works fast, reliably and conveniently. You target your subject with the small red square in the center of the field of view, briefly touch the button, and in a fraction of a

second, the distance to the subject is displayed in the field of view. Accurate to within one meter, or slightly more than a yard.

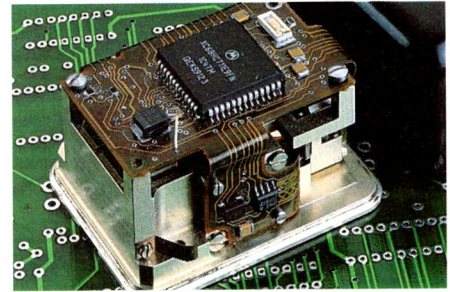
... and an electronic compass

And the LEICA GEOVID 7 x 42 BDA also makes it possible to determine an accurate orientation in virtually any situation. With the integrated digital magnetic compass, a precise orientation reading can be obtained at any time, simply by pressing a button. A magnetic deviation, programmed earlier, is taken into account automatically. And you don't even have to hold the GEOVID level – it displays the azimuth reading in the field of view at inclinations of up to 35°.

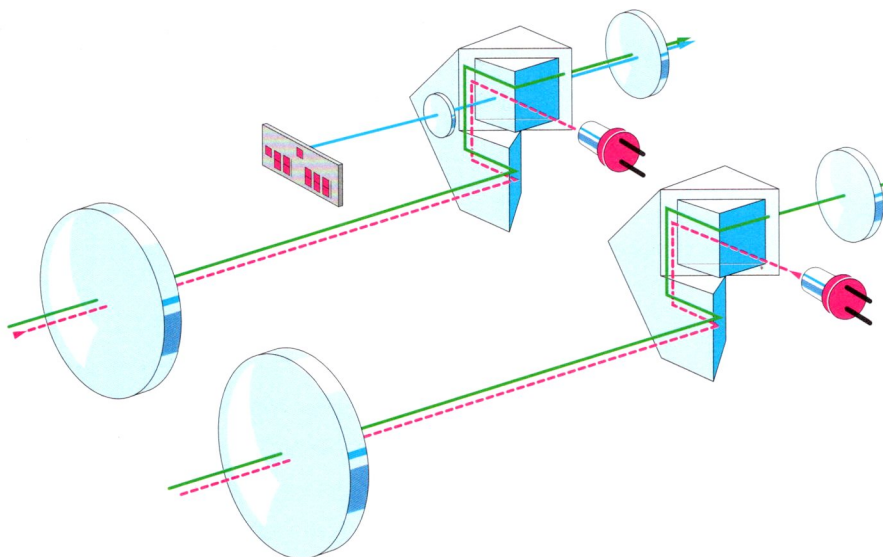
For those who don't need a compass when they are traveling: the LEICA GEOVID 7 x 42 BD – with just the rangefinder.

Distance measuring made easier

If you always know in which direction to proceed when you are underway, you can confidently dispense with the compass. In that case, the LEICA GEOVID 7 x 42 BD version is the ideal choice for you, because it is equipped with the rangefinder only. By dispensing with the compass, it was possible to reduce the weight of the GEOVID by 140 grams, or nearly five ounces. A welcome relief for those who want to carry less weight.



High-tech – made by Leica. The digital compass delivers the greatest performance within the smallest space.



This is how the rangefinder in the GEOVID works: press the rangefinder button and position your subject with the small red targeting square in your field of view. The instrument sends out an infrared light pulse that is reflected by the targeted subject. The microprocessor computes the distance from the time it took for the pulse to be reflected back to the instrument. The exact distance is displayed in the field of view.

Close enough to touch – with the LEICA TELEVID

Experience the fascination of nature at close range with LEICA TELEVID 77 and LEICA APO-TELEVID 77 spotting scopes: one look through the true-color, high-magnification and high-performance spotting scopes is enough for an expert observer to discern very distinctly what remains concealed for others.



Fabrice Edel



"Leica optics are simply the best"

Bill Oddie, England

If you are interested in observing the world of plants and animals more intensely, for longer periods of time and with greater magnification than that provided by binoculars, you should become more familiar with the two LEICA TELEVID high-performance spotting scopes. Available with straight or angled eyepieces. They guarantee brilliant viewing from daybreak well into

twilight, and they bring out even the smallest details accurately and distinctly.

TELEVID 77 and APO-TELEVID 77

The number "77" in the name of our spotting scopes refers to the diameter of the front objective lens in millimeters. Such an ample dimension (nearly 3 inches), in conjunction with the complex optical system and the multiple anti-



reflection coatings in the TELEVID 77 ensure a true-color, contrasty and super-bright image, which is certain to impress you in every respect. Your enthusiasm could only be greater with the APO-TELEVID 77. Its high-grade fluorite-containing optical glasses have very high light transmission qualities, and they do not produce any color fringes. With this highly corrected spotting scope, you can discern even the tiniest details of the subject with absolute color fidelity and outstanding resolution, from the center to the very edges of the field of view. And this down to a range of 3.90 m, or less than 13 ft.

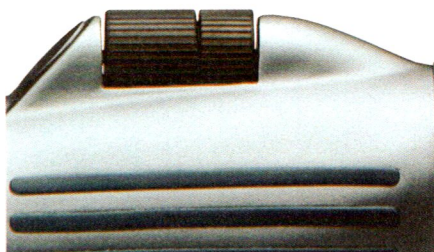
Magnification to suit your needs

Depending on your range of applications, you have the choice of four precision eyepieces with different magnifications. A convenient bayonet mount allows them to be attached with a flick of the wrist. And with the set back exit pupils, that are typical for Leica, you can comfortably observe the full, unrestricted field of view, even if you wear eye-glasses. The largest field of view is covered by the B 20x WW wide-angle

eyepiece, which stands out because of the brilliant and bright image that it produces (20-power magnification). But the top-of-the-line B 32x WW eyepiece also offers a large field of view, in spite of its 32-power magnification. For the precise observation of small details from large distances, the B 40x eyepiece is the best choice. The greatest flexibility,

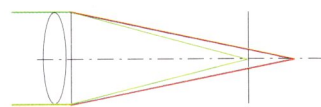


A rapid-change bayonet allows an eyepiece to be attached with a flick of the wrist.

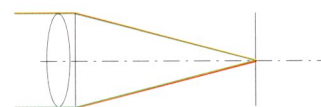


A large focusing wheel for quick coarse focusing, a smaller one for fine focusing – a practical and handy dual focus control.

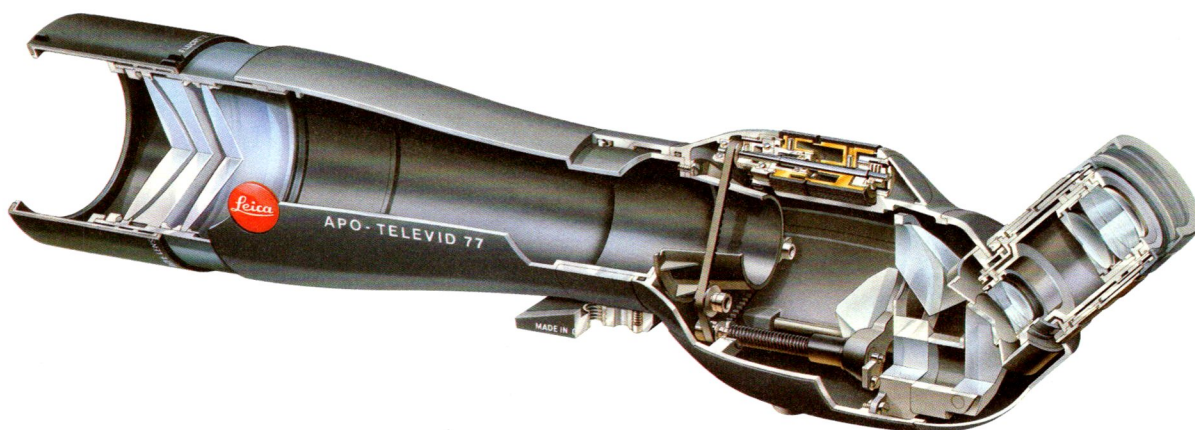
however, is provided by the B 20–60x zoom eyepiece. It can be used to locate a subject in its surroundings with low magnification, and then to zoom in with higher magnification in order to examine its finest details close up. – And there is no need to re-focus after changing eyepieces, because sharpness is retained from the previous setting.



Color correction with achromatic lenses.

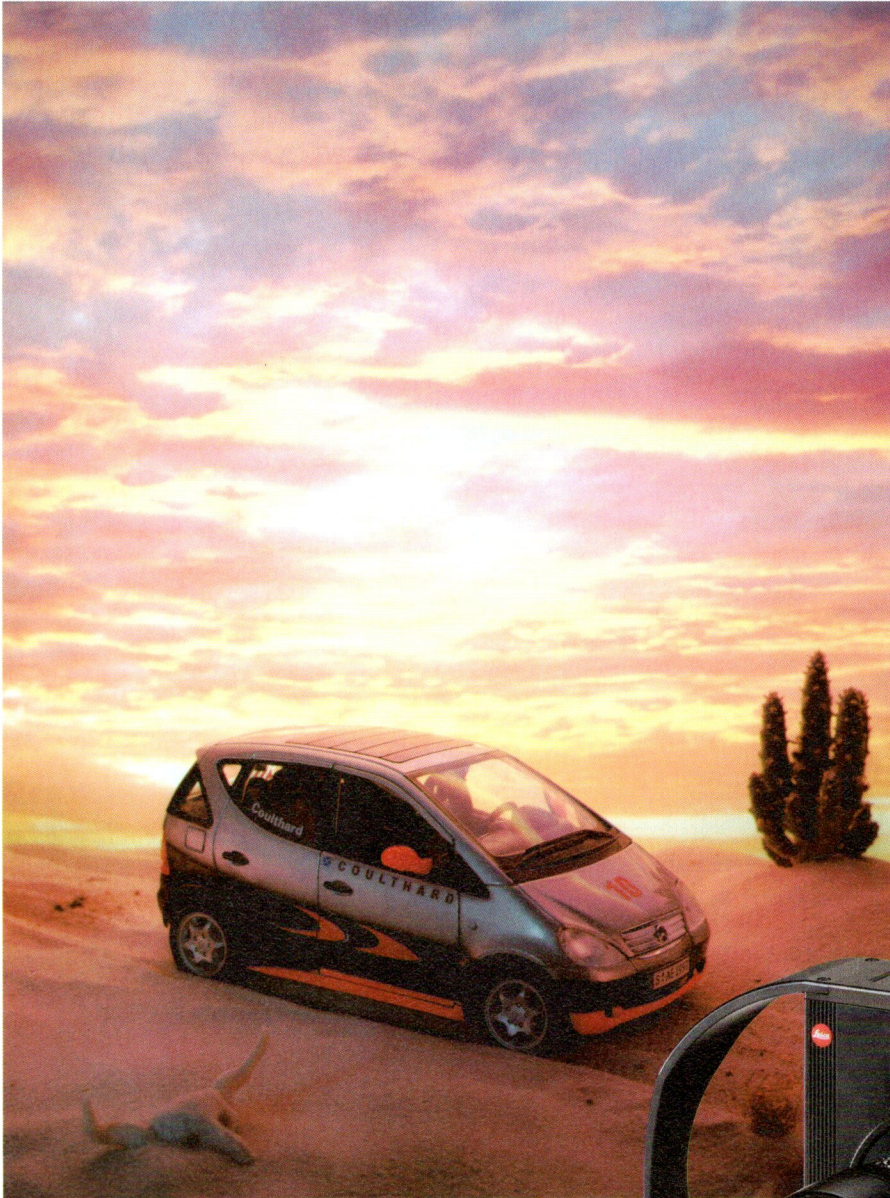


Color correction with apochromatic lenses (as in the APO-TELEVID 77, for instance).



Professional digital photography with the LEICA S 1 system

Digital cameras are becoming more important in professional photography every year. In the prepress phase, for instance, they simplify the workflow dramatically. The LEICA S 1 stands out for its state-of-the-art technical characteristics, and it can be fully integrated into an existing studio environment.



The LEICA S 1 Pro is designed for the professional studio photographer. Shown here is a miniature of a Mercedes A-class compact car in a photographic studio, photographed with the LEICA S 1 Pro Digital Camera.

Digital future

For many types of businesses and professions from the realms of photography, prepress, archives and research, it has meanwhile become a matter of fact that in the current digital era the future of the picture also lies largely in the digital domain. For reasons of cost optimization, long-time archival quality and increased information as compared to the medium of film, professional photographers, museums and scientists are already today availing themselves of the capabilities of digital photography.

In the entire field of prepress work, for instance, electronic data processing has already been indispensable for quite some time. Digital image manipulation and data transmission optimizes the path from the original shoot all the way to the printed page, and it makes the workflow faster, more flexible and far



more efficient. Everyone who is involved with the process can examine the picture on a monitor without any time delay and simulate various changes in the image. The results can be printed out at any stage and reproduced as often as desired without any loss of quality.

High-end quality with the LEICA S 1 system

Three different scanner cameras and an extensive range of adapters for the most commonly used types of lenses make the S 1 system a comprehensive and flexible tool for the very highest demands. Unlike conventional digital camera backs, the LEICA S 1 combines the qualities of a flatbed scanner with those of a camera housing of the highest mechanical and electronic refinement. In addition to its bright viewfinder image, its electronic focusing aid can also be used for secure and highly accurate sharpness control. The upgrading concept makes the LEICA S 1 system a wise investment for the future, because it will always be state of the art for many years to come. The three camera models LEICA S 1 Pro, Alpha and HighSpeed feature intuitive operation, ergonomic camera body design and a highly efficient software package. The extremely high resolving power of the CCD sensor takes full advantage of the superb imaging quality of Leica lenses.

In matters of shadow- and highlight detail rendition, rich contrast range, sharpness and color fidelity, even with highly complex subjects, images created with LEICA S 1 cameras are clearly superior to images photographed on conventional transparency films. Furthermore, LEICA S 1 SilverFast software brings you a significant plus by means of the additional creative tools of "digital film processing", such as gradation changes or selective color

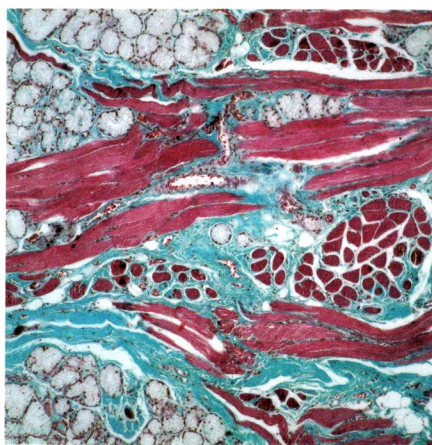
manipulations. The performances of all the components – from the optics to the software – are optimally calibrated to one another.

That ensures that the high Leica standards for pictures are equally valid in the realm of digital imaging.

The versatility of the LEICA S 1 system

The three models of the LEICA S 1 camera were optimized for different fields of applications and they can be integrated seamlessly into existing working environments.

- A Tilt-Shift-Adapter for Hasselblad lenses makes the adjustment capabilities of a large format camera possible.
- LEICA S 1 cameras can be used with all continuous light sources, such as fluorescent tubes, HMI- or halogen lights (like flash focusing lights, for example).
- By means of LEICA S adapters, you can make excellent use of your LEICA M and R lenses, and you can even attach lenses from other manufacturers, such as Hasselblad, Nikon, Canon, Olympus and Mamiya, among others.



Space-age technology of the finest kind: The sensor used in LEICA S 1 cameras is increasingly replacing film – as shown here by means of a scientific photograph taken through the microscope: a histological cut through a tongue, photographed with a LEICA S 1 Alpha.

- Of course you can also operate the LEICA S 1 camera on the film standard of the Sinar p camera.

The S class: the LEICA S 1 program

• LEICA S 1 Pro

The top model for highly professional applications. Stands out for the highest performance in terms of resolution and color rendition.

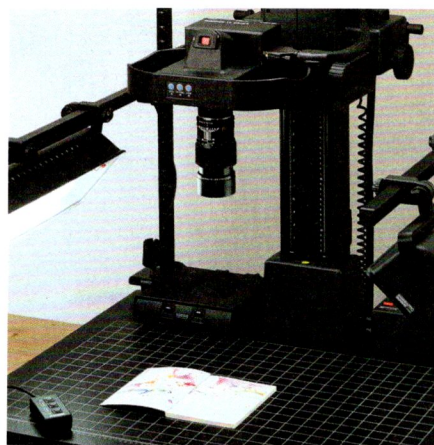
• LEICA S 1 HighSpeed

Combines maximum productivity with the shortest scanning times. With high frequency technology for the stepping motor control and faster data transmission by means of a cable and an interface box.

• LEICA S 1 Alpha

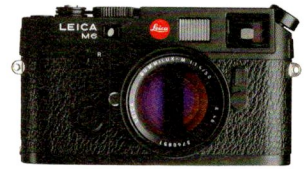
The attractive model for entry into the world of digital images. With the LEICA S 1 Upgrade Kit it can be converted into a full-blooded LEICA S 1 Pro, so that it grows along with the photographer's needs.

All models of the LEICA S 1 Digital Camera will become available in the fourth quarter of 1998.



An ideal upgrade for the prepress department: the LEICA S 1 HighSpeed on a copy stand, for all the originals that do not fit the flatbed scanner.

Technical Data LEICA M System



Model	LEICA M6 TTL / LEICA M6 TTL 0.85
Camera type	35 mm rangefinder camera with a mechanically controlled shutter and selective through-the-lens exposure metering.
Lenses	14 LEICA M lenses with focal lengths ranging from 21 to 135 mm.
Viewfinder	Combined rangefinder and viewfinder with brightline frames. Subject cropping is controlled through the viewfinder. Viewfinder magnification is the same for all lenses. Viewfinder eyepiece calibrated for -0.5 diopters. Screw-in correction lenses available.
LEICA M6 TTL 0.72 x with 0.72 x magnification	
LEICA M6 TTL 0.85 x with 0.85 x magnification	
Brightline frames	6 (5 on the LEICA M6 TTL 0.85 x), activated automatically in pairs when the respective lens is attached: 28 and 90 mm, 35 and 135 mm, 50 and 75 mm (no 28 mm brightline frame on the M6 TTL 0.85 x). Preview lever allows brightline frames to be activated manually, without changing the lens.
Parallax compensation	The brightline frame in the viewfinder delineates the subject area covered by the corresponding lens. The difference between the fields covered by the viewfinder and by the respective lens is corrected automatically.
Long-base rangefinder	Double-image rangefinder. Effective measuring base is 49.9 mm (59.1 mm on the M6 TTL 0.85 x).
Exposure meter	Selective exposure metering through the lens at working aperture (TTL metering); it is activated by gently pressing the release button when the shutter is cocked and it remains active for approximately 10 seconds. It measures the light reflected by a white metering spot on the shutter curtain. The area of the metering spot corresponds to approximately 13% of the film format. The correct exposure setting is indicated by a light balance in the viewfinder.
Metering cell	Silicon photo diode behind a collector lens. Calibrated to the visual spectrum of the human eye by means of a filter.
Metering range	From 0.08 to 125,000 cd/m ² at f/1. The LEDs in the viewfinder blink when the light intensity is below this range.
Batteries	Energy for the exposure meter is supplied by two SR 44 silver-oxide button cells or by a lithium battery, size 1/3 N. Batteries last for approximately 20 hours of actual use. With a metering time of 10 seconds per exposure, this corresponds to approximately 80 rolls of 36-exposure films.
Working range	At ISO 100/21°: exposure values from -2 to +20 EV, or 2 s (with the "B" setting) at f/1, all the way to 1/1000 s at f/22.
Aperture setting	By means of a ring on the lens; with click stops at half and full f-stop settings.
Shutter speed setting	From 1 s to 1/1000 s and "B". Click stops at the marked settings. Intermediate settings are not possible. Electronic flash synchronization speed is 1/50 s (¼).
Shutter	Horizontal rubberized cloth focal plane shutter. Exposure times are formed mechanically. Extremely quiet.
Flash synchronization	Via a central contact in the accessory shoe (hot shoe) or via the separate flash connection socket on the upper back of the camera. Flash synchronization speed with the "X" setting is 1/50 s. TTL exposure metering; center-weighted integral metering with dedicated flash units (SCA 3000) and adapter SCA 3501.
Flash exposure compensation, fill-in flash	Compensation from -3 1/3 to +3 1/3 EV units can be set on the SCA 3501 adapter in steps of 1/3 EV units.
Flash-ready signal	The flash symbol in the viewfinder lights up.
Successful flash exposure confirmation	An indication of a correct flash exposure automatically appears in the viewfinder for approximately 4 seconds after the exposure.
Film speed settings	Manual, from ISO 6/9° to ISO 6400/39°.
Film advance	Manual; rapid film advance lever with a hinged tip. Partial strokes are possible. Film rewinding is also manual, by means of a fold-out crank built into the angled knob at the top of the camera.
Exposure counter	Counts forward from -2 to 40; resets itself automatically when the baseplate is removed. Readings through a small magnifier built into the top plate.
Camera body	Closed camera body made of die-cast aluminum. 0.8 mm thick die-cast zinc top plate. Baseplate is made of 0.8 mm thick brass. Hinged back cover. Eyelets for carrying strap. Tripod socket A 1/4, DIN 4503. Mechanical connection for LEICA WINDER M. Choice of black or silver chrome finish. The LEICA M6 TTL 0.85 x is available in black chrome finish only.
Dimensions without lens	79.5 mm (3 1/8") high, 138 mm (5 7/16") long, 38 mm (1 1/2") deep.
Weight without lens	560 grams (less than 20 ounces).
Order Numbers	
LEICA M6 TTL black chrome	10 433
LEICA M6 TTL silver chrome	10 434
LEICA M6 TTL 0.85 x black chrome	10 436

Technical Data LEICA R System



Model	LEICA R8	LEICA R6.2
Camera type	Microprocessor-controlled 35 mm single lens reflex camera with multi-mode automatic exposure controls.	35 mm single lens reflex camera with manual control of shutter speed and aperture.
Lens mount	Exposure metering, exposure control modes, power supply	
Switching the camera on	Turn the mode selector from the "OFF" position and gently press the release button (on the camera, motor or remote control). When the shutter is cocked, the viewfinder displays remain active for 14 seconds after letting go of the release button.	Turn the exposure metering mode selector away from the "OFF" position and gently press the release button. With the shutter cocked, the viewfinder displays remain active for 14 seconds after letting go of the release button.
Exposure metering methods	<p>Selective metering, multi-pattern metering, center-weighted integral metering with all exposure control modes.</p> <p>Center-weighted TTL integral metering with flash exposures with dedicated flash units.</p> <p>Selective flash exposure metering with any manually controlled flash unit prior to the exposure.</p> <p>The camera performs exposure metering at full aperture with all LEICA R lenses and accessories equipped with spring-loaded iris diaphragms, otherwise it meters at the working aperture.</p>	<p>Selective and integral metering through the lens.</p> <p>Selective metering: 7 mm metering field outlined in the viewfinder.</p> <p>Integral metering: center-weighted large-field integral metering.</p>
Operating modes	<p>m Manual setting of shutter speed and aperture using red LED light balance in the viewfinder</p> <p>A Aperture priority automatic exposure control</p> <p>P Variable program automatic exposure control</p> <p>T Shutter-exposure priority automatic exposure control</p> <p>F Test flash exposure metering</p>	Manual setting of shutter speed and aperture.
Film speed range	<p>Manual setting from ISO 6/9° to ISO 12,800/42°. (With the compensation of -3 EV or +3 EV, films with speeds from 0 to 51° DIN can be exposed). DX code sensing from ISO 25/15° to ISO 5,000/38°. Metering range at f/1.4 and ISO 100/21°</p> <p>Selective metering: From 0.008 cd/m² to 125000 cd/m², i.e. from -4 EV to +20 EV, or from 32 seconds at f/1.4 to 1/5000 second at f/11.</p> <p>Integral and multi-pattern metering: From 0.03 cd/m² to 125000 cd/m², i.e. from -2 EV to +20 EV, or from 8 seconds at f/1.4 to 1/5000 second at f/11.</p> <p>Warning symbol in the viewfinder when the light intensity is below the metering range.</p> <p>Selective metering: From: 0.25 cd/m² to 125000 cd/m², i.e. from +1 EV to +20 EV, or 1 second at f/1.4 to 1/2000 second at f/22.</p> <p>Integral metering: From 0.063 cd/m² to 125000 cd/m², i.e. from -1 EV to +20 EV, or 4 seconds at f/1.4 to 1/2000 second at f/22.</p>	From ISO 12/12° to ISO 3200/36°.
Metering cell	Silicon photo-diodes protected from stray light.	Silicon photo-diode protected from stray light.
Power supply	Operates with 6 volts. 2 lithium cells type CR 2 in the camera's battery compartment.	Operates with 3 volts. 2 silver oxide cells or 1 lithium cell in the camera's battery compartment.
Flash synchronization	Flash exposures	
	Via the central contact in the hot shoe or via the flash connection socket. Optionally on the first or second shutter curtain. Flash synch speed: X = 1/250 second.	Via the central contact in the hot shoe or via the flash connection socket Flash synch speed: X = 1/100 second.

Technical Data

LEICA R System (continued)



Model	LEICA R8	LEICA R6.2
TTL flash exposure metering	Center-weighted integral metering with dedicated flash units (SCA 3000) and adapter SCA 3501.	Center-weighted integral metering with dedicated flash units (SCA 300 or SCA 500) and adapters SCA 351 or SCA 551. With SCA system-compatible electronic flash units used with SCA 351 and SCA 551 adapters, flash exposure metering takes place through the lens.
Metering cell for TTL flash exposure metering	Silicon photo-diode protected against stray light.	Silicon photo diode, protected against stray light.
Flash metering before the actual exposure	Selective TTL metering, also with non-system compatible flash units, such as studio flash systems.	
Film speed range for TTL flash exposure metering	With TTL flash exposure metering: ISO 12/12° to ISO 3200/36°; With TTL flash metering before the actual exposure: ISO 25/15° to ISO 400/27°.	With TTL flash exposure metering: ISO 12/12° to ISO 3200/36°.
Flash-ready indicator	The flash symbol lights up in the viewfinder and in the display on the back cover.	The flash symbol blinks in the viewfinder.
Successful flash exposure indicator	Indicators for under- and over-exposures and for correct exposures appear automatically for about 4 seconds after the exposure.	Flash symbol blinking fast: flash is still charging; Flash symbol blinking slowly: flash is ready.
Flash exposure correction, fill-in flash (flash override)	Corrections of $-3\frac{1}{3}$ to $+3\frac{1}{3}$ EV in steps of $\frac{1}{3}$ EV can be set on the SCA 3501 adapter. Fixed adjustment of $-1\frac{2}{3}$ EV step when using the automatic program mode.	By using the exposure control on the camera.
Zoom reflector on flash units	Automatic adjustment of the zoom reflector to match the coverage of the respective lens with dedicated flash units and adapter SCA 3501 and lenses with electrical contacts.	
Viewfinder system		
Prism	Built-in, fixed pentaprism.	Built-in, fixed pentaprism.
Focusing screens	Five interchangeable focusing screens: <ul style="list-style-type: none"> - Universal screen (ground glass screen with microprism ring and split-image rangefinder); - Uniform ground glass screen; - Uniform ground glass screen with grid divisions; - Microprism screen; - Clear glass screen with crosslines. 	Five interchangeable focusing screens: <ul style="list-style-type: none"> - Universal screen (ground glass screen with microprism ring and split-image rangefinder); - Uniform ground glass screen; - Uniform ground glass screen with grid divisions; - Microprism screen; - Clear glass screen with crosslines.
Eyepiece	High-eyepoint viewfinder. Diopter correction from approximately -2 to $+2$ diopters can be made at the eyepiece. Supplementary lenses available for corrections from -3 to $+3$ diopters. Built-in eyepiece shutter.	Corrections from $+2$ to -2 diopters can be made by means of a small wheel at the eyepiece. Built-in eyepiece shutter.
Viewfinder field	23 x 35 mm, corresponds to 93% of the actual image area (96% vertically and 97% horizontally).	23 x 34.6 mm, corresponds to 92% of the actual image area.
Operational aids		
LCD displays in the viewfinder	Warning signal in the viewfinder when light conditions are below the metering range. Warning signal when a manually set film speed differs from that of the DX code.	Compensation setting. Metering method, completed storage of metered exposure value. Flash ready symbol and flash control.
Operational tools	Aperture in half stops; light balancing meter for manual determination of the correct exposure; result of the TTL test flash metering; shutter speed in half steps; warning symbol for over- and under-exposures; frame number.	Viewfinder displays: All the displays are arranged below the viewfinder image: the f-stop set on the lens; the shutter speed setting. Shutter speed and aperture settings can be illuminated. LED displays when the exposure meter is switched on: symbols for the exposure metering method that has been selected; light balance; flash-ready symbol and exposure readiness control by means of the blinking flash symbol. LED warning symbols: with plus or minus exposure adjustment (compensation) and when light conditions are below the metering range.

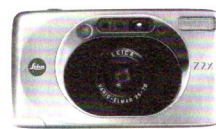


Model	LEICA R8	LEICA R6.2
	Shutter and shutter release	
Shutter	Microprocessor-controlled metal-blade focal plane shutter that runs vertically.	Mechanically controlled metal-blade focal plane shutter that runs vertically.
Shutter speeds	Can be set manually by means of the shutter speed dial: from 16 to 1/8000 seconds in half values, plus "B" for time exposures of any length. The "X" setting for flash synchronization is equivalent to 1/250 second. In the automatic exposure control modes it is steplessly variable from 32 to 1/8000 seconds.	Set manually by means of the shutter speed dial from 1 to 1/2000 second in full steps, plus "B" for time exposures of any length. The "X" setting for electronic flash synchronization is equivalent to 1/100 second.
Shutter release button	Sequence of three stages: power supply is switched on, metered exposure value is stored in memory, shutter is released.	Shutter release button has a standard thread for cable releases. Sequence of two stages: exposure meter is switched on, shutter is released.
Selftimer	2 time delays: 2 or 20 seconds. Red LED lights up during the countdown.	Time delay is approximately 9 seconds. Red LED blinks during countdown.
Hinged mirror	Partially transparent hinged mirror with 17 coatings (70% reflection, 30% transmission).	Partially transparent hinged mirror with 17 coatings (70% reflection, 30% transmission).
Mirror lock-up	Via the shutter release button, after having been pre-set.	By means of a separate cable release, the mirror can be swung up and the iris diaphragm can be closed down to the working aperture without releasing the shutter. The shutter can then be released by pressing the shutter release button on the camera.
Bracketing	A series of three exposures can be made in quick succession in conjunction with the Motor-Drive-R8, with automatically controlled differences in exposures of 1/2 or 1 EV steps.	
	Film advance	
Loading the film	Easy and fast film loading with automatic film threading.	Manual film loading.
Film advance	Manually with the rapid film advance lever or motorized with the Motor-Winder-R8 or the Motor-Drive-R8. Display on the back cover monitors film advance.	Manually with the rapid film advance lever or motorized with the Motor-Winder-R (2 frames per second) or the Motor-Drive-R (choice of 4 fps, 2 fps or single exposures).
Rewinding the film	Manually with the rewinding crank or motorized with an attached Motor-Winder-R8 or a Motor-Drive-R8.	With a fold-out rewinding crank on the upper left side of the camera.
Exposure counter	In the viewfinder and on the back cover display. Re-sets automatically when the back cover is opened.	Near the rapid film advance lever. Re-sets automatically when the back cover is opened.
Multiple exposures	Any number of multiple exposures can be made without advancing the film or the exposure counter.	Any number of multiple exposures can be made without advancing the film or the exposure counter.
	Camera housing	
Material	Top cover of 1 mm thick die-cast zinc, black or silver chrome finish. Inner structure of aluminum, firmly attached to metal plate with tripod socket.	Top cover of die-cast zinc, body of die-cast aluminum, baseplate of brass. Back cover can be exchanged for a databack.
Preview lever	For visual evaluation of the depth of field and for igniting the test flash.	For visual evaluation of the depth of field.
Tripod socket	A 1/4 (1/4") DIN with anti-twist protection in accordance with DIN 4503.	A 1/4 (1/4") DIN.
Film cartridge window	For checking the type of film that has been loaded.	For checking the type of film that has been loaded.
Dimensions and weight	Height 101 mm (3 31/31"), length 158 mm (6 7/32"), depth 62 mm (2 7/16"). Weight 890 grams (less than 31 1/2 ounces).	Height 89.1 mm (3 1/2"), length 138.5 mm (5 15/32"), depth 63.5 mm (2 1/2"). Weight 625 grams (22 ounces).
Display of the exposure metering method that has been selected	In the viewfinder and by positioning the metering method selector at the desired method symbol.	In the viewfinder and by symbols in a small window next to the shutter speed dial.
Order number		
Black chrome finish	10081	10074
Silver chrome finish	10080	10073

Technical Data: Compact Cameras



Model	LEICA minilux zoom	LEICA minilux	LEICA Z2X
Type	Compact viewfinder camera with fast zoom lens, titanium body and accessory shoe ("hot shoe") contacts for the separate LEICA CF flash unit (metric guide number 20).	Compact viewfinder camera with very fast lens and titanium body.	Compact, fully automatic viewfinder camera with zoom lens.
Film format	35 mm, 24 x 36 mm	35 mm, 24 x 36 mm	35 mm, 24 x 36 mm
Lens	35–70 mm f/3.5–6.5 LEICA VARIO-ELMAR zoom lens (7 elements in 6 groups).	40 mm f/2.4 LEICA SUMMARIT (6 elements in 4 groups).	35–70 mm f/4-7.6 LEICA VARIO-ELMAR zoom lens (7 elements in 6 groups).
Focusing range	Automatic and manual focusing from 70 cm (2'3 1/2") to infinity.	Automatic and manual focusing from 70 cm (2'3 1/2") to infinity.	Automatic focusing from 60 cm (1'11 5/8") to infinity. Infinity can also be set manually.
Autofocus system	Active infrared autofocus that measures when the release button is pressed gently and then focuses when the button is pressed all the way to make the exposure.	Active infrared autofocus that measures when the release button is pressed gently and then focuses when the button is pressed all the way to make the exposure.	Passive autofocus that measures when the release button is pressed gently and then focuses when the button is pressed all the way to make the exposure.
Exposure control	Automatic program with automatic flash that can be switched off.	Program or aperture priority automatic exposure control modes with automatic flash hat can be switched off.	Automatic program with automatic flash that can be switched off.
Exposure metering	Integral, center-weighted.	Integral, center-weighted.	Integral, center-weighted.
Measured data storage	When the release button is pressed gently, the focus setting and the metered exposure value are stored in the camera,s memory.	When the release button is pressed gently, the focus setting and the metered exposure value are stored in the camera,s memory.	When the release button is pressed gently, the focus setting and the metered exposure value are stored in the camera,s memory.
Exposure correction	From +2 EV to –2 EV in half exposure steps.	From +2 EV to –2 EV in half exposure steps.	+2 EV, can be activated manually.
Shutter speed range	1 to 1/250 second. Automatic switch-over to the "B" function (up to 99 seconds) in the operating modes SLOW $\frac{1}{2}$ ON, SLOW $\frac{1}{2}$ ON and $\frac{1}{2}$ OFF. "T" setting for vibration-free time exposures up to 99 seconds without a cable release. With this setting, the camera automatically switches to " $\frac{1}{2}$ OFF".	1 to 1/400 second. Automatic switch-over to the "B" function (up to 99 seconds) in the operating modes SLOW $\frac{1}{2}$ ON, SLOW $\frac{1}{2}$ ON and $\frac{1}{2}$ OFF.	1/4 to 1/300 second. Automatic switch-over to the "B" function (up to 99 seconds) in the operating modes SLOW $\frac{1}{2}$ ON, SLOW $\frac{1}{2}$ ON, $\frac{1}{2}$ OFF and ∞ $\frac{1}{2}$ OFF.
Operating modes	In low light situations the built-in or the attached and switched-on external flash unit LEICA CF in the AUTO operating modes is activated automatically. It is possible to switch the flash units ON or OFF manually at any time. The use of flash is also possible with slower shutter speeds in the SLOW operating modes. Pre-flash with the built-in flash for the reduction of the red-eye effect can be switched on at will in the AUTO-, ON- and SLOW operating modes. On the other hand, all flash functions, exposure corrections as well as the "T" function can also be stored continuously if you wish, so that they will be immediately be accessible when the camera is turned on again after having been switched off.	In low light situations, the built-in flash is activated automatically in the AUTO function modes. Switching the flash on or off manually is possible at any time. The use of flash is also possible with slower shutter speeds in the SLOW operating modes. Pre-flash for the reduction of the red-eye effect can be activated in the AUTO, ON, and SLOW operating modes.	In low light situations, the built-in flash is activated automatically in the AUTO operating modes. It is possible to switch the flash ON or OFF at any time. Flash can also be used with slower shutter speeds in the SLOW operating modes. Pre-flash for the reduction of the red-eye effect can be activated in the AUTO, ON and SLOW operating modes.



Modell	LEICA minilux zoom	LEICA minilux	LEICA Z2X
Flash range of the built-in flash unit, based on a film speed of ISO 100/21°	At the 35 mm zoom setting: 0.7–3.7 m (27 1/2"–12.2")* At the 70 mm zoom setting: 0.7–2 m (27 1/2"–6.7")* Metric guide number: 13. Flash recharging time: approximately 6 seconds with a fresh battery.	From 0.7 to 4.6 m (27 1/2"–15")*. Metric guide number: 11. Flash recharging time: approximately 5 seconds with a fresh battery.	At the 35 mm zoom setting: 0.6–3.25 m (23 5/8"–10.8")*. At the 70 mm zoom setting: 0.6–1.7 m (23 5/8"–5.7")*. Metric guide number: 13. Flash recharging time: approximately 5 seconds with fresh batteries.
Flash range of the LEICA CF accessory flash unit, based on a film speed of 100/21°	At the 35 mm zoom setting: up to approximately 5.7 m (18.8") At the 70 mm zoom setting: up to approximately 3.1 m (10.2") Metric guide number: 20. Flash recharging time: 5 seconds with fresh batteries,		
Viewer/Monitor	Bright, clear real-image zoom viewfinder with markings outlining the autofocus measuring field. For pictures in the close-up range and in a panorama format. Panorama adapter available as an accessory.	Bright, clear real-image viewfinder with markings outlining the autofocus measuring field, for pictures in the close-up range and in a panorama format. Panorama adapter available as an accessory.	Bright clear real-image viewfinder with markings outlining the autofocus measuring field, for pictures in the close-up range and in a panorama format. Panorama adapter available as an accessory.
Viewfinder magnification	At the 35 mm zoom setting: 0.33x. At the 70 mm zoom setting: 0.57x. Viewfinder image size is about 83% of the image size.	0.35x. Viewfinder image size is about 85% of the film format.	At the 35 mm zoom setting: 0.34x. At the 70 mm zoom setting: 0.74x. Viewfinder image size is about 83% of the film format.
LCD (Liquid Crystal Display) shows:	Symbols or numbers for the exposure counter (alternatively a timer in seconds), as well as battery condition and the currently active operating modes or functions and correction factors, selftimer, proper film advance and rewinding. Automatic activation of the flash in low light situations.	Symbols or numbers for the exposure counter (alternatively a timer in seconds), shutter speed or f-stop, as well as battery condition and the currently active operating modes or functions and correction factors, selftimer, proper film advance and rewinding. Automatic activation of the flash in low light situations.	Symbols or numbers for the exposure counter (alternatively a timer in seconds), as well as battery condition and the currently active operating modes or functions and selftimer, proper film advance and rewinding. Automatic activation of the flash in low light situations.
Selftimer	Delay time 10 seconds.	Delay time 10 seconds.	Delay time 10 seconds.
Film advance	Automatic film threading and motorized advance to the first frame. Motorized film advance after each exposure. Exposure sequence function when the release button is kept pressed all the way. Motorized rewinding takes place automatically when the end of the film is reached. The film is rewound into the cartridge completely. Premature rewinding can also be activated.	Automatic film threading and motorized advance to the first frame. Motorized film advance after each exposure. Exposure sequence function when the release button is kept pressed all the way. Motorized rewinding takes place automatically when the end of the film is reached. The film is rewound into the cartridge completely. Premature rewinding can also be activated.	Automatic film threading and motorized advance to the first frame. Motorized film advance after each exposure. Exposure sequence function when the release button is kept pressed all the way. Motorized rewinding takes place automatically when the end of the film is reached. The film is rewound into the cartridge completely. Premature rewinding can also be activated.
Film speed setting	Automatic film speed setting with DX-coded film cartridges for film speeds ranging from ISO 25/15° to ISO 5000/38°. With film cartridges that are not DX-coded, the camera automatically sets itself for a film speed of ISO 100/21°.	Automatic film speed setting with DX-coded film cartridges for film speeds ranging from ISO 25/15° to ISO 5000/38°. With film cartridges that are not DX-coded, the camera automatically sets itself for a film speed of ISO 100/21°.	Automatic film speed setting with DX-coded film cartridges for film speeds ranging from ISO 50/18° to ISO 3200/36°. With film cartridges that are not DX-coded or that are coded for film speeds below ISO 50/18° the camera automatically sets itself for a film speed of ISO 100/21°. With film cartridges DX-coded for film speeds greater than ISO 3200/36°, the camera automatically sets itself for a film speed of ISO 3200/36°.
Power supply	Long-life lithium battery 3V (CR 123A).	Long-life lithium battery 3V (CR 123A).	Long-life lithium battery 3V (CR 123A).
Databack	Available as an accessory, it replaces the regular camera back.	Available as an accessory, it replaces the regular camera back.	Camera can be supplied with or without a databack.
Input/Output			
Dimensions (Width x Height x Depth) and weights	124 x 73 (including accessory shoe for flash) x 44/47.5 mm (without/with databack); (4 7/8" x 2 7/8" x 1 3/4" / 1 7/8"); approximately 375 grams or just over 13 ounces.	124 x 69 x 39/42.5 mm (without/with databack) (4 7/8" x 2 23/32" x 1 17/32" / 1 11/16"); approximately 330 grams or 11.6 ounces.	124 x 69.6 x 42.6/43.6 (without/with databack) (4 7/8" x 2 3/4" x 1 21/32" / 1 23/32"); approximately 245 grams or 8.6 ounces.
Order Numbers	18036 without databack 18037 with databack	18006 without databack 18007 with databack	18032 without databack 18033 with databack

*These distance ranges are based on the use of transparency film. When negative films are used, with which under-exposures are not critical because of their great exposure latitude, the range can safely be extended by a factor of 1.4.

Technical Data: PRADOVIT Projectors



Nothing can escape your eyes: With the LEICA Universal Magnifier 5x you can get to the bottom of things. Prints and slides, filmstrips, postage stamps and documents of all sorts become brilliant, contour-sharp and distortion-free down to the finest details.

Projector models P 150, P 300, P 600 complete with halogen bulbs, AC connecting cable, Standard straight tray for 36 slides	P 150	P 150 IR	P 300	P 300 IR	P 600	P 600 IR
	Order Number					
Projector without lens (230 V/50 Hz)	30 420	30 840	30 820	30 830	30 950	30 970
with 85 mm f/2.8 Hektor (230 V/50 Hz)	30 421	30 842	30 821	30 831	30 852	30 872
Projector without lens (115 V/60 Hz)	30 912	30 914	30 918	30 920	30 925	30 927
with 85 mm f/2.8 Hektor (115 V/60 Hz)	30 913	30 915				
Projector without lens (120 V/60 Hz)	30 497					
with 85 mm f/2.8 Hektor (120 V/60 Hz)	30 498					
Projector without lens (240 V/50 Hz)	30 452	30 910	30 919	30 921	30 926	30 928
with 85 mm f/2.8 Hektor (240 V/50 Hz)	30 453	30 911				
Dimensions in mm (length x width x height)	254 x 250 x 123		278 x 275 x 135		310 x 280 x 135	
Weight in kg	3.6		5.0		6.5	
	Accessories					
Light pointer, attachable	37 310					
Replacement bulb for light pointer	37 304					
Remote control cable with built-in light pointer (3 m)			37 318	37 318	37 320	37 320
Extension cable (10 m)			37 319	37 319	37 319	37 319
Infrared remote control			37 990		37 990	
Multiple connector socket for the simultaneous connection of, for instance, a sound pulse trigger or remote control cable.			37 631	37 631	37 631	37 631
Interchangeable condenser for P 600 with 200 mm f/4 lens					37 229	37 229
Laser pointer			37 337	37 337	37 337	
Timer			37 986	37 986		
Plug-in reading lamp			37 313	37 313		
Replacement bulb for reading lamp			37 308	37 308		
Slide tray channel extension			37 329	37 329	37 329	37 329
Monitor	37 331	37 331	37 331	37 331	37 331	37 331
Daylight projection attachment			37 333	37 333	37 333	37 333
AC connector for infrared remote control P 600 IR						37 335
Carrying case	37 321	37 321	37 323	37 323	37 323	37 323
Universal 5x magnifier	37 350	37 350	37 350	37 350	37 350	37 350

Projection Lenses for P 150 models

60 mm f/2.8 ELMARIT-P2...	37 510
85 mm f/2.8 HEKTOR-P2...	37 511
90 mm f/2.5 COLORPLAN-P2...	37 512
90 mm f/2.5 COLORPLAN-P2 CF...	37 513

Projection lenses for P 300/P 600 models

60 mm f/2.8 ELMARIT-P2	37 510
85 mm f/2.8 HEKTOR-P2	37 511
90 mm f/2.5 COLORPLAN-P2	37 512
90 mm f/2.5 COLORPLAN-P2	37 513
90 mm f/2.5 SUPER-COLORPLAN-P2	37 514
120 mm f/2.8 ELMARIT-P2	37 515
150 mm f/2.8 ELMARIT-P2	37 516
200 mm f/3.4 ELMARON-P2	37 520
250 mm f/4 ELMARON-P2 ^{*1}	37 521
70-120 mm f/2.8 VARIO-ELMARIT-P2	37 518
85-150 mm f/4 VARIO-ELMARON-P2 ^{*2}	37 523
110-200 f/3.5 VARIO-ELMARON-P2 ^{*1}	37 522

^{*1} For P 600/P 600 IR only; ^{*2} For P 300/P 300 IR only



PRADOVIT Projector P 2002, complete with 2 halogen bulbs 24 V/250 W, remote control cable, AC connecting cable, LKM straight slide tray for 60 slides

	P 2002
Order Number	30 698
Projector without lens (can be set for 110 or 240 V/50 or 60 Hz) with lens sleeve (for 35–200 mm)	335 x 270 x 165
Size in mm (length x width x height)	9.0
Weight in kg	
Accessories	
Hood for PRADOVIT P 2002	37 985
Carrying case	37 961
Infrared remote control IR PCM	37 990
Timer	37 986
Slide tray channel extension	37 632
Extension cable (10 m)	
Lens sleeve for 35–200 mm	37 119
Lens sleeve for 250 mm	37 130
Lens sleeve for 300 mm	34 640
Interchangeable condenser for 35 mm	37 223
Interchangeable condenser for 50–200 mm	37 224
Interchangeable condenser for 250–300 mm	37 225
Interchangeable condenser for superslides and 60–200 mm	37 226
Interchangeable condenser for superslides and 250–300 mm	37 228
Aspheric lens 40 x 40	37 227
Bright-Light Kit for P 2000/P 2002	37 633

Projection lenses for PRADOVIT P 2002 models

35 mm f/2.8 ELMARON-P	37 041
50 mm f/2.8 ELMARON-P	37 011
60 mm f/2.8 ELMARON-P	37 004
85 mm f/2.8 ELMARON-P	37 003
90 mm f/2.5 COLORPLAN-P	37 005
90 mm f/2.5 COLORPLAN-P CF	37 015
90 mm f/2.5 SUPER-COLORPLAN-P	37 085
120 mm f/2.8 ELMARON-P	37 022
150 mm f/2.8 ELMARIT-P	37 017
200 mm f/3.4 ELMARON-P	37 009
250 mm f/4 ELMARON-P	37 082
300 mm f/4.3 EPNOR-P	34 837
60–110 mm f/3.5 VARIO-ELMARON-P	37 026
110–200 mm f/3.5 VARIO-ELMARON-P	37 027

Accessories for lap-dissolve projection with PRADOVIT models P150/P300/P600/P2002

Dissolve control unit DU-24 M2	37 997
Dissolve control unit DU-24 MT	37 996
Console for 2 projectors	37 972
Stand for 2 dissolve projectors (P 300/P 600)	37 325

	P 150	P 150 IR	P 300	P 300 IR	P 600	P 600 IR	P 2002
Halogen bulb 24 V/150 W	•	•					
Halogen bulb 24 V/250 W			•	•	•	•	•
Economy switch for the bulb			•	•	•	•	•
Full 24 x 36 mm illumination	•	•	•	•	•	•	•
40 x 40 mm illumination					•	•	•
Autofocus override	•		•	•	•	•	•
Autofocus can be switched off					•	•	•
Slide preview	•	•	•	•	•	•	•
Single slide attachment	•	•	•	•	•	•	•
Built-in infrared remote control		•		•		•	
Infrared remote control as an accessory			•		•		•
Infrared remote control with laser pointer						•	
Built-in electronic timer					•	•	
Built-in light pointer			•		•		•
Light pointer as an accessory	•						
Integrated cable wind-up	•	•	•	•			
Carrying handle			•	•			•
Diecast aluminum chassis					•	•	•
Slide tray channel extension as an accessory			•	•	•	•	•
1 Vertical adjustment foot	•	•					
2 Vertical adjustment feet			•	•	•	•	•
AV connector, 10- or 14-pin			•	•	•	•	•
Facility for sound-slide shows			•	•	•	•	•
Automatic bulb change					•	•	•
Daylight projection attachment as an accessory							
Monitor	•	•	•	•	•	•	•
Daylight projection attachment			•	•	•	•	•
Accepts the following slide trays							
Standard straight slide tray for 36 slides	•	•	•	•	•	•	•
Standard straight slide tray for 50 slides	•	•	•	•	•	•	•
LKM straight slide tray for 60 slides	•	•	•	•	•	•	•
LKM straight slide tray for 80 slides	•	•	•	•	•	•	•
Round slide tray for 120 slides					•	•	
CS slide tray for 40 slides	•	•	•	•	•	•	•
CS slide tray for 80 slides	•	•	•	•	•	•	•

Slide trays: Stacking box with

2 LKM straight slide trays for 60 slides each	37 979
2 LKM straight slide trays for 80 slides each	37 980
2 Standard straight slide trays for 36 slides each	37 844
2 Standard straight slide trays for 50 slides each	37 855
1 Round slide tray (for PRADOVIT P 600 or P 600 IR only)	37 327

Technical Data: PRADOVIT RT Projectors



Technical Data: PRADOVIT RT projectors

PRADOVIT RT projector, complete with 2 special halogen bulbs 82 V/300 W type EXRL85, AC connecting cable and round slide tray for 80 slides

(With conversion switch 120-240 V/50-60 Hz).

(With conversion switch 120-240 V/50-60 Hz, version for USA and Canada)

Dimensions in mm

	RT-m	RT-s
Length	305	305
Width	333	333
Height with slide tray	174	174
Weight in kg	9,0	9,0

Accessories

	Order Numbers	
Round slide tray for 80 slides	37369	37369
Remote control cable for PRADOVIT RT	37370	37370
Extension cable (8 m) for remote control cable	37374	37374
Infrared remote control for PRADOVIT RT	37371	37371
Infrared Remote control with laser pointer	37372	37372
Infrared receiver (separate) for PRADOVIT RT	37373	37373
Dissolve cable for PRADOVIT RT projectors	37375	37375
Condenser for 4x4 cm slides in PRADOVIT RT	37376	37376
Bulb module (replacement) for PRADOVIT RT	37377	37377
Hard shell carrying case for PRADOVIT RT	37378	37378
Halogen bulb 82 V/300 W EXRL85 (replacement)	37779	37779
Universal 5x magnifier	37350	37350

Projection lenses

	Order Numbers	
35 mm f/2.8 ELMARIT-PRO	37352	37352
45 mm f/2.8 ELMARIT-PRO	37353	37353
90 mm f/2.5 COLORPLAN-PRO	37354	37354
90 mm f/2.5 SUPER-COLORPLAN-PRO	37355	37355
120 mm f/2.8 ELMARIT-PRO	37356	37356
150 mm f/2.8 ELMARIT-PRO	37357	37357
200 mm f/3.4 ELMARON-PRO	37358	37358
70-120 mm f/2.8 VARIO-ELMARIT-PRO	37363	37363
100-300 mm f/3.5 VARIO-ELMARON-PRO	37360	37360
60 mm f/2.8 PC-ELMARIT-PRO	37361	37361
90 mm f/2.8 PC-ELMARIT-PRO	37362	37362
Adapter for P & P2 projection lenses on PRADOVIT	37366	37366

Technical data: LEICA PRADOVIT RT projectors

	RT-m	RT-s
Control of all functions by means of built-in microprocessor	•	•
Slide positioning by means of slide chute with registration on two planes	•	•
Precision stepping-motors for slide & tray transport	•	•
Round slide trays for 80 or 140 slides	•	•
Sleeve for projection lenses with standard helical focusing thread on mount	•	•
Automatic shutter when there is no slide in the gate (no slide - no light)	•	•
Stand-by function for "quiet" pauses	•	•
Red LED indicator when the projector is switched on	•	•
Modular bulb system with integrated automatic bulb changer	•	•
Bulb defect indicator (2 red LEDs)	•	•
Low slide compartment temperature through special multi-layer coatings on condenser and on heat absorbing filter	•	•
Housing made of fully recyclable molded material	•	•
Slide apertures: 24 x 36 mm (35 mm film) and 40 x 40 mm (requires special condenser lens)	•	•
Slide changing time	0.88 sec	0.88 sec
Automatic reset function when the projector is switched on	•	•
Automatic tray return to zero when gate is empty and the reset button is pressed	•	-
Zero position indicator (green LED)	•	•
Autofocus with override function	•	•
AV slot for the integration of individual control technologies	•	-
P-bus interface for PC control of up to 16 projectors	•	•
Random access with infrared remote control	•	•
8-pin mini-DIN-connector socket for accessories (remote control, double connector, etc.)	•	•
Timer for projection times from 1 to 60 seconds	•	•
Bulb economy switch	•	•
Integrated dissolve control for a 2-projector dissolve show	•	-
Soft slide change (Slide change with gentle fade-in and fade-out.)	•	-
Parallel operation, independent slide advance control and individual bulb control with 2-projector shows	•	-
Autotimer function (1-60 seconds) via infrared remote control, programmable	•	-
High light switch for approximately 20% more light with blinking indicator	•	-
Projection bulbs	82 V/300 W/35 hr.	
Height adjustment	> 10°	> 10°



IR Remote control
IR Remote control with laser pointer
IR Receiver

Not shown:
Remote control cable

Technical data: LEICA S 1



Technical Data

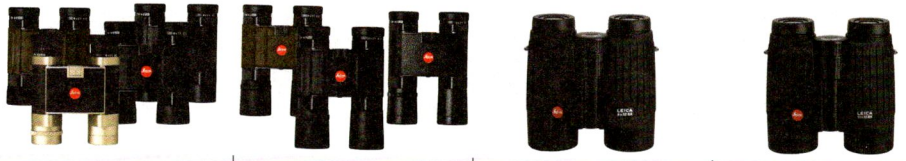
	LEICA S 1 Alpha	LEICA S 1 Pro	LEICA S 1 HighSpeed
Max. resolution (pixels)	2570 x 2570	5140 x 5140	4000 x 4000
Max. file size without interpolation (MB) 48/24-Bit format	38/19	152/76	96/48
Dynamics (D max)	3.3.	3.3	3.0
Contrast range	11 aperture stops.	11 aperture stops	10 Aperture stops
Scan area (mm)	36 x 36	36 x 36	36 x 36
Full scan time in seconds	75	185	20
Scan time for DIN A4 size, seconds	75	75	15
Connection with the computer (length in m)	Fiberglass cable (6, 12, 30)	Fiberglass cable (6, 12, 30)	2 m cable and interface box
Software (included)	LEICA S 1 <i>SilverFast</i>	LEICA S 1 <i>SilverFast</i>	LEICA Acquire and <i>SilverFast</i> HDR 4.0
Appropriate illumination	All continuous illumination: halogen light (flash focusing lights), fluorescent light, HMI lights	All continuous illumination: halogen light (flash focusing lights), fluorescent light, HMI lights	All continuous illumination: halogen light (flash focusing lights), fluorescent light, HMI lights
Lens connections	LEICA M and R lenses, Zeiss/Hasselblad, Nikon, Canon FD, Minolta MD, Pentax, Olympus M42, Mamiya 645 Pro, Sinar P	LEICA M and R lenses, Zeiss/Hasselblad, Nikon, Canon FD, Minolta MD, Pentax, Olympus M42, Mamiya 645 Pro, Sinar P	LEICA M and R lenses, Zeiss/Hasselblad, Nikon, Canon FD, Minolta MD, Pentax, Olympus M42, Mamiya 645 Pro, Sinar P
Order Number	10602	10600	10601

	Dynamic	DIN/ISO	Binning 2x	Binning 3x
LEICA S 1 Pro	1:2000	24°/200 ISO	24°/200 ISO	29°/600 ISO
	1:1000	27°/400 ISO	30°/800 ISO	32°/1200 ISO
	1:256	33°/1600 ISO	36°/3200 ISO	38°/4800 ISO
LEICA S 1 Alpha	1:2000	27°/400 ISO	30°/800 ISO	32°/1200 ISO
	1:1000	30°/800 ISO	33°/1600 ISO	35°/2400 ISO
	1:256	36°/3200 ISO	39°/6400 ISO	41°/9600 ISO
LEICA S 1 HighSpeed	1:1000	24°/200 ISO	27°/400 ISO	-
	1:256	30°/800 ISO	33°/1600 ISO	-

Adapters		Filters	
Designation	Order Number	Designation	Order Number
LEICA S-Adapter-HA	15 340	Filter IRa E 67 for daylight (HMI, fluorescent light)	13 606
LEICA S-Tilt-Shift-Adapter-HA	15 350	Filter IRa E 67 II for artificial light (Halogen)	13 607
LEICA S-Shift-Adapter-NO	15 390		
LEICA S-Shift-Adapter-MAM 645	15 400		

Upgrades	
Upgrade LEICA S 1 to LEICA S 1 Pro	Order Number 15 710
Upgrade LEICA S 1 Alpha to LEICA S 1 Pro	Order Number 15 711

Technical Data: Binoculars



Binocular	TRINOVID 8 x 20 BC/BCA	TRINOVID 10 x 25 BC/BCA	TRINOVID 8 x 32 BA	TRINOVID 10 x 32 BA
Order Number	40 341	—	—	—
Leather style, titanium	40 335	40 336	—	—
Leather style, black	40 339	40 340	40 011	40 010
Armored, black	40 337	40 338	—	—
Armored, green	—	—	—	—
Supplied with:	Double-sided carrying cord	Double sided carrying cord	Non-slip carrying strap, eyepiece cover and Nappa leather case	Non-slip carrying strap, eyepiece cover and Nappa leather case
Magnification	8 x	10 x	8 x	10 x
Front lens diameter	20 mm	25 mm	32 mm	32 mm
Exit pupil	2.5 mm	2.5 mm	4 mm	3.2 mm
Twilight factor	12.65	15.8	16.0	17.9
Field of view at 1000 m/1000 yds.	115 m/345 ft.	95 m/285 ft.	135 m/405 ft.	120 m/360 ft.
Objective angle of view	6.6°	5.4°	7.7°	6.8°
Near focusing distance	approx. 3 m or 9 3/4 ft.	approx. 5 m or 16 1/2 ft.	approx. 3.2 m or 10 1/2 ft.	approx. 2.6 m or 8 1/2 ft.
Diopter compensation	± 3.5 diopters	± 3.5 diopters	increased ± 4 diopters	increased ± 4 diopters
Eyepieces for eyeglass wearers	yes	yes	yes	yes
Sliding Eyecups	yes	yes	yes	yes
Adjustable interpupillary distance	32–83 mm	32–83 mm	56–74 mm	56–74 mm
Focusing	Internal focusing via central focusing drive	Internal focusing via central focusing drive	Internal focusing via central focusing drive	Internal focusing via central focusing drive
No. of elements (each side)	6, all multi-coated	6, all multi-coated	9, all multi-coated	11, all multi-coated
Prism system	Roof prism with phase correction layer	Roof prism with phase correction layer	Roof prism with phase correction layer	Roof prism with phase correction layer
Watertightness	Water spray resistant	Water spray resistant	Watertight to a depth of 5 m or 16 1/2 ft.	Watertight to a depth of 5 m or 16 1/2 ft.
Housing	Metal	Metal	Metal, filled with nitrogen	Metal, filled with nitrogen
Dimensions (H x W x D)	92 x 60 x 35 mm	110 x 60 x 36 mm	112 x 117 x 45 mm	112 x 117 x 45 mm
Weight	approx. 225 g (BC), 235 g (BCA)	approx. 245 g (BC), 255 g (BCA)	approx. 625 g/22 oz	approx. 625 g/22 oz
Accessories/Order Numbers	42 198	42 199	—	—
Soft leather pouch	—	—	42 170	42 170
Hard leather case	—	—	42 212	42 212
Belt holster	—	—	42 211	42 211
Cordura case, black	—	—	42 162	42 162
Neoprene carrying strap, black	—	—	42 163	42 163
Floating carrying strap, orange	—	—	—	—



Ever-ready case for compact binoculars



*From left to right:
Hard leather case
Cordura case and
Belt holster*



TRINOVID 7 x 42 BA	TRINOVID 8 x 42 BA	TRINOVID 10 x 42 BA	TRINOVID 8 x 50 BA	TRINOVID 10 x 50 BA	TRINOVID 12 x 50 BA
— — 40 013 40 246	— — 40 012 40 247	— — 40 014 40 248	— — 40 066 —	— — 40 067 —	— — 40 068 —
Non-slip carrying strap, eyepiece cover and Nappa leather case	Non-slip carrying strap, eyepiece cover and Nappa leather case	Non-slip carrying strap, eyepiece cover and Nappa leather case	Neoprene carrying strap, eyepiece cover and Nappa leather case	Neoprene carrying strap, eyepiece cover and Nappa leather case	Non-slip carrying strap, eyepiece cover and Nappa leather case
7 x 42 mm 6 mm 17.15 140 m/420 ft.	8 x 42 mm 5.25 mm 18.35 130 m/390 ft.	10 x 42 mm 4.2 mm 20.5 110 m/330 ft.	8 x 50 mm 6.25 mm 20 115 m/345 ft.	10 x 50 mm 5 mm 22.36 115 m/345 ft.	12 x 50 mm 4.2 mm 24.5 110 m/330 ft.
8.0° approx. 6.3 m or 20 3/4 ft. increased ± 4 diopters yes	7.4° approx. 5.3 m or 17 1/2 ft. increased ± 4 diopters yes	6.3° approx. 4.6 m or 15 ft. increased ± 4 diopters yes	6.6° approx. 5.4 m or 17 3/4 ft. increased ± 4 diopters yes	6.6° approx. 4.8 m or 15 3/4 ft. increased ± 4 diopters yes	5.7° approx. 4.6 m or 15 ft. increased ± 4 diopters yes
yes 56–74 mm	yes 56–74 mm	yes 56–74 mm	yes 58–74 mm	yes 58–74 mm	yes 56–74 mm
Internal focusing via central focusing drive	Internal focusing via central focusing drive	Internal focusing via central focusing drive	Internal focusing via central focusing drive	Internal focusing via central focusing drive	Internal focusing via central focusing drive
8, all multi-coated	9, all multi-coated	9, all multi-coated	8, all multi-coated	9, all multi-coated	11, all multi-coated
Roof prism with phase correction layer	Roof prism with phase correction layer	Roof prism with phase correction layer	Roof prism with phase correction layer	Roof prism with phase correction layer	Roof prism with phase correction layer
Watertight to a depth of 5m or 16 1/2 ft.	Watertight to a depth of 5m or 16 1/2 ft.	Watertight to a depth of 5m or 16 1/2 ft.	Watertight to a depth of 5m or 16 1/2 ft.	Watertight to a depth of 5m or 16 1/2 ft.	Watertight to a depth of 5m or 16 1/2 ft.
Metal, filled with nitrogen	Metal, filled with nitrogen	Metal, filled with nitrogen	Metal, filled with nitrogen	Metal, filled with nitrogen	Metal, filled with nitrogen
141 x 130 x 57 mm	141 x 130 x 57 mm	141 x 130 x 57 mm	181 x 135 x 72 mm	178 x 135 x 72 mm	178 x 135 x 72 mm
approx. 890 g/31 1/2 oz	approx. 890 g/31 1/2 oz	approx. 890 g/31 1/2 oz	approx. 1150 g/40 1/2 oz	approx. 1150 g/40 1/2 oz	approx. 1150 g/40 1/2 oz
— 42 168 42 213 42 210 42 162 42 163	— 42 168 42 213 42 210 42 162 42 163	— 42 168 42 213 42 210 42 162 42 163	— 42 171 — (42 162) included 42 163	— 42 171 — (42 162) included 42 163	— 42 171 — (42 162) included 42 163



*Watersport Set:
LEICA TRINOVID 7 x 42 BA
Armored in navy blue,
with floating carrying strap,
navy blue Cordura ever-ready case,
eyepiece cover.
Order No. 40 320*



*Hunting Set:
LEICA TRINOVID 10 x 42 BA
Armored in green, with green Neoprene
carrying strap, green Cordura ever-ready
case, eyepiece cover.
Order Number 40 325*



*Hunting Set:
LEICA TRINOVID 8 x 50 BA
Armored in green, with green Neoprene
carrying strap, black hard leather case
with black Neoprene carrying strap,
eyepiece cover.
Order No. 40 324*

Technical Data: Binoculars and Spotting Scopes



The convenient ever-ready case for the LEICA GEOVID binocular



Neoprene carrying strap



Floating carrying strap

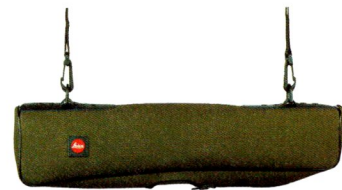
Binocular	GEOVID 7 x 42 BDA	GEOVID 7 x 42 BD
Order Number	40 022	40 023 (read-out in meters) 40 024 (read-out in yards)
Supplied with:	Neoprene carrying strap, eyepiece cover, Cordura case and battery	Neoprene carrying strap, eyepiece cover, Cordura case and battery
Accessory, Order Number		
Floating carrying strap, red	42 163	42 163
Magnification	7 x	7 x
Front lens diameter	42 mm	42 mm
Exit pupil	6 mm	6 mm
Twilight factor	17.1	17.1
Field of view at 1000 m/1000 yds.	120 m/360 ft.	120 m/360 ft.
Objective angle of view	6.9°	6.9°
Near focusing distance	approx. 12 m/39 1/2 ft.	approx. 12 m/39 1/2 ft.
Diopter compensation	increased to ± 4 diopters	increased to ± 4 diopters
Distance measurement		
• Range in m	25 m to approx. 1000 m	25 m to approx. 1000 m
• Range in yards	27 yds to approx. 1093 yds,	27 yds to approx. 1093 yds.
• Accuracy	± 2 m or ± 2 yds.	± 2 m or ± 2 yds.
Angle measurement	Yes	No
• Range	360°	
• Accuracy	0.5°	
• Directional correction	Yes	
• Interference field compensation	Yes	
Read-outs	Red LED displays in field of view	Red LED displays in field of view
Eyepieces for eyeglass wearers	Yes	Yes
Sliding eyecups	Yes	Yes
Focusing	Individually adjustable eyepieces	Individually adjustable eyepieces
No. of elements in each half	7, all multi-coated	7, all multi-coated
Prism system	Porro prism system	Porro prism system
Watertightness	Water spray resistant	Water spray resistant
Housing	Metal	Metal
Tripod base	1/4" tripod socket	1/4" tripod socket
Power supply	6 V, battery type 2CR5	6 V, battery type 2CR5
Dimensions (H x W x D)	206 x 178 x 81 mm	206 x 178 x 81 mm
Weight	Approx. 1490 g/52 1/2 oz	Approx. 1350 g/47 1/2 oz



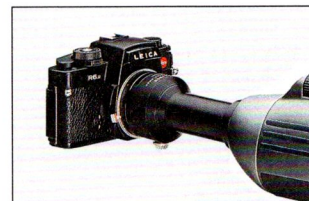
Spotting Scope	TELEVID 77	APO-TELEVID 77
Order Number		
Straight viewing	40 103	40 104
Angled viewing (45°)	40 101	40 102
Supplied with:	Front and rear covers	Front and rear covers
Eyeiece B 20 x WW	41 002	41 002
Eyeiece B 32 x WW	41 004	41 004
Eyeiece B 40 x	41 003	41 003
Zoom eyepiece B 20–60 x	41 001	41 001
Photo Adapter (800 mm f/10.4)	42 300	42 300
T2 Adapter for LEICA	42 305	42 305
Cordura ever-ready case for		
• Straight viewing scope	42 315	42 315
• Angled viewing scope	42 310	42 310
Carrying case	42 316	42 316
Front lens diameter	77 mm	77 mm
Focal length of the lens	440 mm	440 mm
Near focusing distance	Approx. 3.9 m/12,9"	Approx. 3.9 m/12,9"
Exit pupil, twilight factor and field of view	See eyepiece chart below	See eyepiece chart below
Focusing	Internal focusing with coarse and fine drives	Internal focusing with coarse and fine drives
No. of lens elements (excluding the eyepiece)	2, all multi-coated	3, (fluorite), all multi-coated
Prism system	Porro prisms	Porro prisms
Watertightness	Watertight to depth of 3 m or approx. 10 ft.	Watertight to depth of 3 m or approx. 10 ft.
Housing	Metal, filled with nitrogen	Metal, filled with nitrogen
Eyeiece connection	Rapid-change bayonet	Rapid-change bayonet
Tripod base	1/4" and 3/8", rotating with locking screw	1/4" and 3/8", rotating with locking screw
Lens hood	Sliding lens hood with sighting aid	Sliding lens hood with sighting aid
Filter thread	E 77	E 77
Dimensions (H x W x D)	390 x 105 x 93 mm	410 x 105 x 93 mm
Weight	1495 g/52.8 oz	1695 g/59.8 oz



Cordura ever-ready case for straight-viewing scope



Carrying case



Converts your spotting scope into an 800 mm f/10.4 super-telephoto lens: the Photoadapter



Eyeiece	B 20 x WW	B 32 x WW	B 40 x	B 20–60 x (zoom)
No. of lens elements	6 elements	7 elements	6 elements	8 elements
Magnification	20 x	32 x	40 x	20–60 x
Focal length	22 mm	14 mm	11 mm	22–7 mm
Exit pupil	3.85 mm	2.4 mm	1.93 mm	3.85–1.28 mm
Angle of view	3.45°	2.3°	1.25°	1.9° to 1.1°
Field of view at 1000 m	60 m	40 m	22 m	34–19 m
Length	68 mm	70 mm	46 mm	73 mm
Diameter	53 mm	54 mm	45 mm	53 mm
Weight	246 g/8.6 oz	285 g/10 oz	102 g/3.6 oz	249 g/8.7 oz
Order Number	41 002	41 004	41 003	41 001

Dedication to our customers: Leica Service

With this general brochure, did we succeed in providing you with interesting information about our products? If that is so, you are quite likely to be interested in certain other Leica services. Because after you have bought a Leica product, we are here for you with a comprehensive service capability.

Leica on the internet

When you want the latest information fast, it is unsurpassed. Whether it concerns new products or current news from around the world of Leica – you will always find interesting news on the home page of Leica Camera AG. Perhaps you had planned to surf the internet tonight anyway? Then stop by and see us! Our home page on the worldwide web is always open to you: <http://www.leica-camera.com>



Leica Collection

A different, particularly elegant way of showing your connection with Leica as well as an unobtrusive brand awareness is provided by the attractive Leica watches. All of them are exclusive timepieces with clean Leica styling that have become coveted collectors' objects. They were styled by renowned designers and fabricated with the highest craftsmanship. The interior of both the men's - as well as the ladies'

watch houses a precise automatic mechanism that functions flawlessly. 25 jewels, watertight to 3 atmospheres, reflection-free sapphire crystal are further marks of quality. The housing of the men's watch is made of matte-finish stainless steel, and that of the ladies' watch has a high-grade gold plating. Perhaps you would like a very select timepiece?

In that case we would suggest the exquisite Leica chronograph with its superb automatic mechanism and three stop-watch functions for hours, minutes and seconds. 25 jewels and its high-grade stainless steel finish make it stand out. These noble timepieces and an upcoming pocket watch are excellent choices as surprise gifts that will provide long-lasting pleasure to friends and relatives.

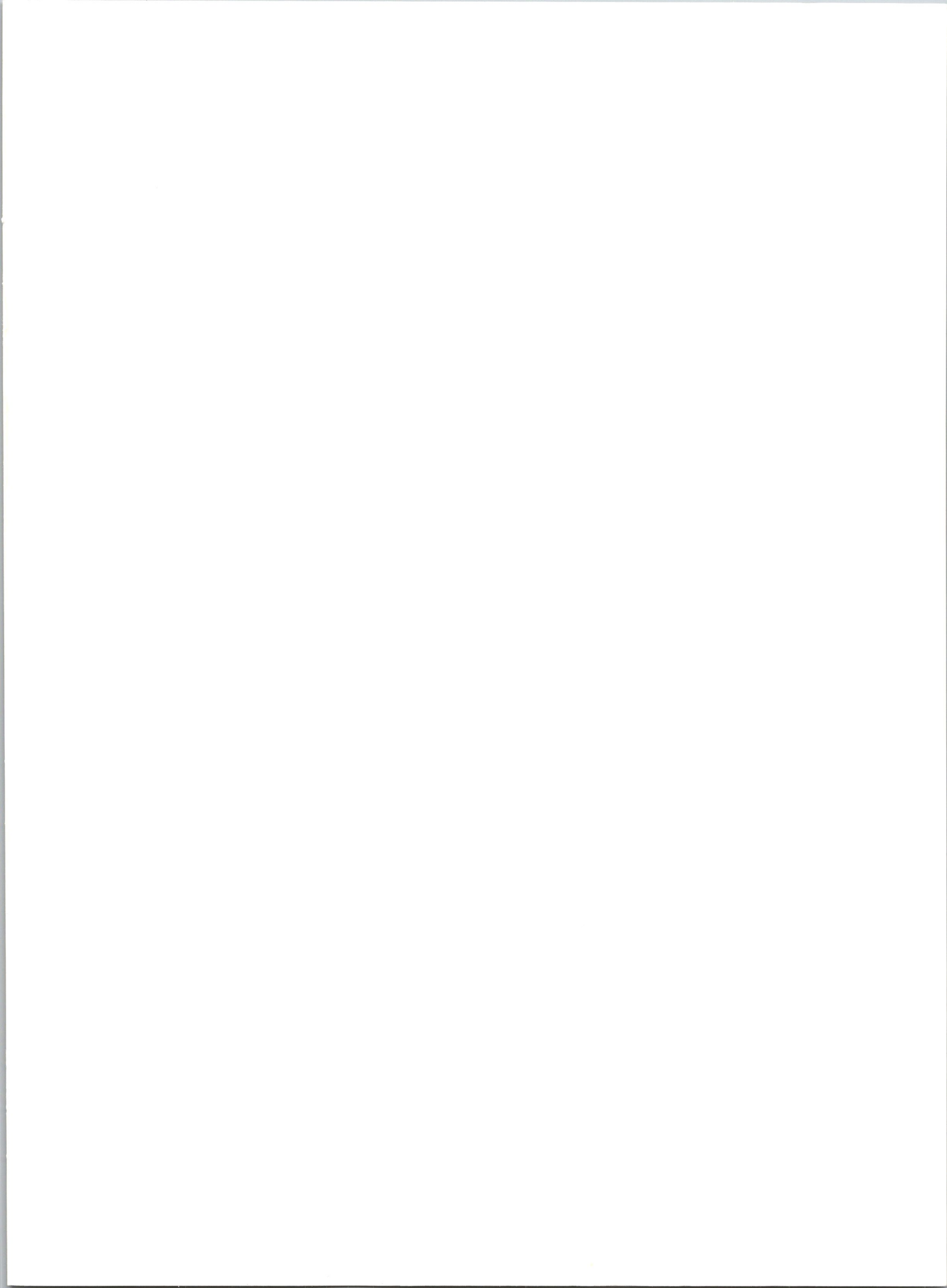


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Highly respected by professional and serious amateur photographers, our courses are designed to expand your knowledge and skills in the finer aspects of 35 mm photography and projection. In seminars at the Leica Academy, or during photographic excursions in and out of the country, seasoned experts demonstrate the fine points of using Leica products, along with numerous tips and tricks for everyday photography. For more details please contact: Leica Camera AG, Leica Academy, Oskar-Barnack-Strasse 11, D-35606 Solms, Germany. Fax: (+49) (0)6442/208-333.

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D-35599 Solms, Germany
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Fax (+49) (0) 64 42/2 08-3 39



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Order numbers of the editions in German 910910, **English 910911**, French 910912 · Printed in Germany, 4/99/BR.