

how to
use
your

Bell & Howell

311

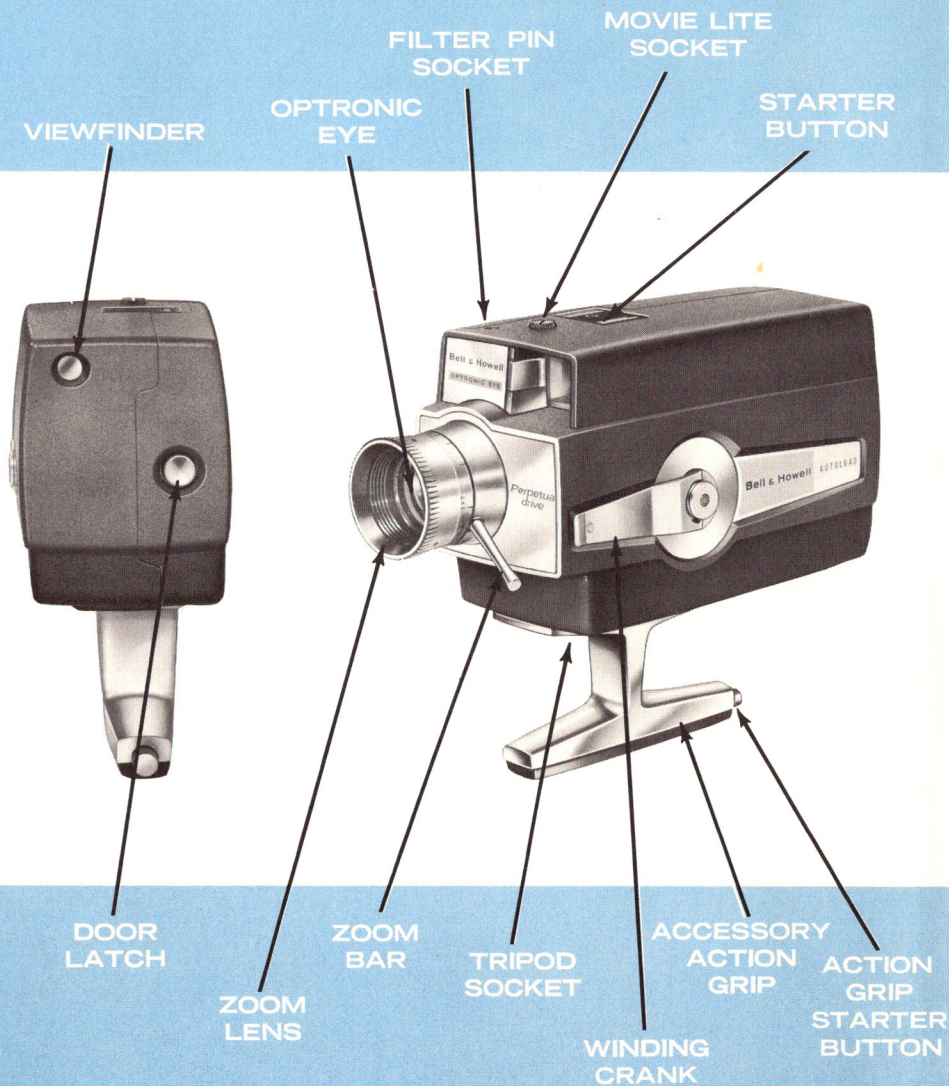
super 8 camera

OPEN THIS FLAP

OF YOUR INSTRUCTION BOOKLET

Keep the flap open as you read through the instructions that follow. This will give you a quick reference to all the working parts of your Autoload Super 8 camera. Familiarity with its features before operating your camera will assure complete success with your first cartridge of Super 8 film. Remember, your new Super 8 camera is designed to accept new Super 8 film only.

**WELCOME TO
Bell & Howell
OWNERSHIP**



YOUR

Your new Bell & Howell movie camera will be one of your most valuable possessions. Use it to take movies of your family, your friends, your vacation. Your new camera will take pictures of graduations and anniversary celebrations.

Don't be afraid to use your new movie camera. Even if you've never used any type of camera before, you'll find this an enjoyable experience.

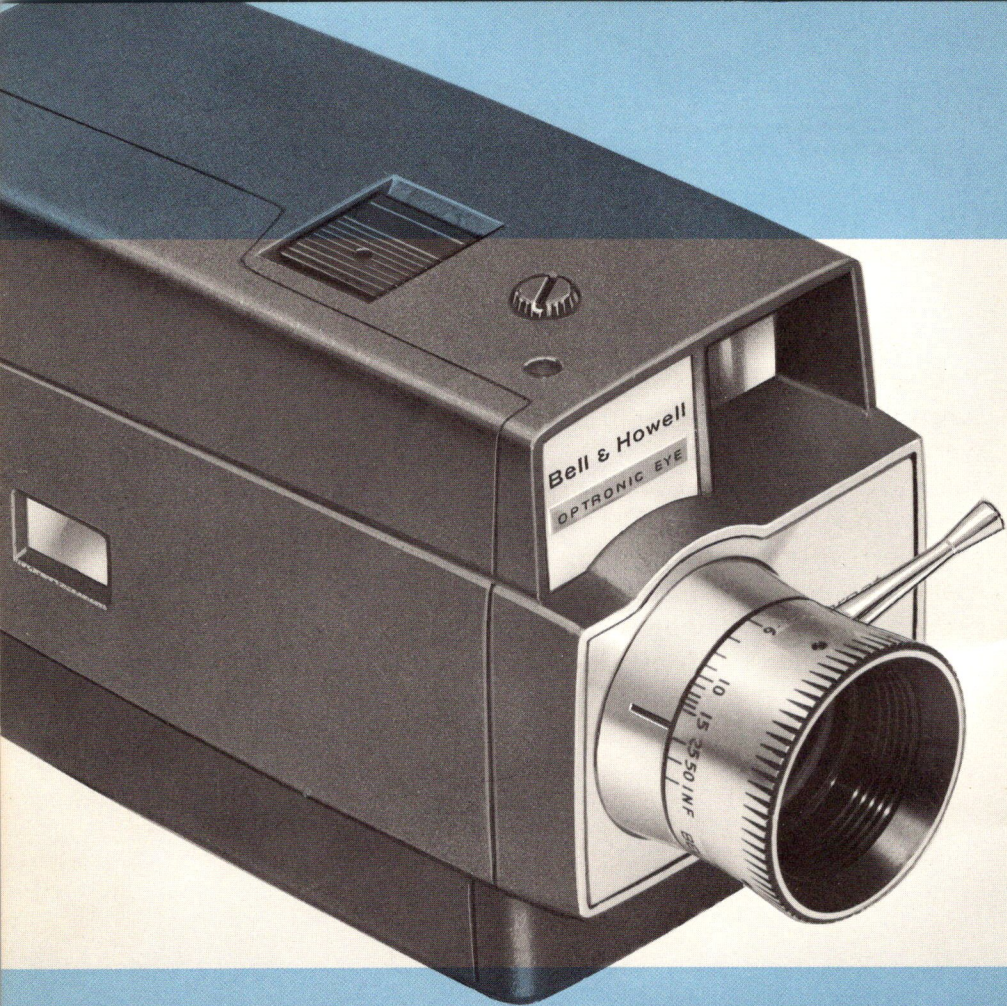


BELL & HOWELL CAMERA WILL BE ONE OF YOUR MOST VALUABLE POSSESSIONS

Your camera will take pictures of anything that you want it to. It will take colorful movies — bright and clear movies that will sharpen your memories, make you look forward to recording almost everything on motion pictures.



The first thing you'll want to do is to pick up your camera and get acquainted with it . . . hold it . . . look through it . . . make sure you are completely familiar with all its features and controls. Test your camera . . . we even recommend that you shoot a cartridge of practice film before shooting any special occasion.



BUILT-IN AUTOMATIC CONVENIENCES

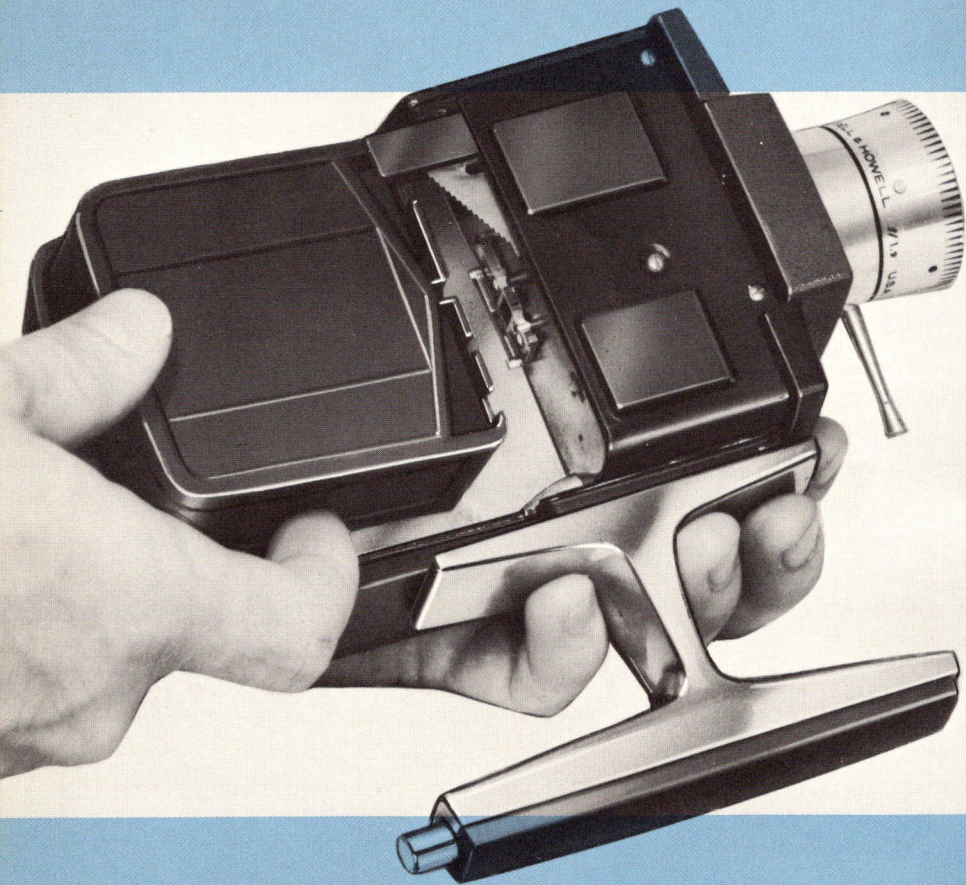
Your new 311 Autoload Super 8 camera has many exciting and exclusive features. Every feature is designed to make your movie taking experiences easier and more enjoyable. Features like a 30 foot film drive on one winding give your camera enough power so that you only have to wind twice for an entire cartridge of film.

Your camera also features an Optronic Eye® and even though you can't see it, it's working all the time—whether you're taking movies in bright sunlight or deep shade. It sets the lens automatically so you can get bright colorful results everytime.

Your new camera is also equipped with a feature that sets the camera for the kind of film you're using. This setting is made automatically when the cartridge is inserted into the camera. For your information, this setting is commonly referred to as the "ASA" setting which is the speed of the film.

Your camera also features a built-in filter. While shooting outdoors, the filter remains in place, but when you move indoors, the Bell & Howell* Movie Lite is equipped with a pin that moves the filter out of position. This enables you to use the same film indoors or out.

*See page 17 for more information on the Movie Lite.

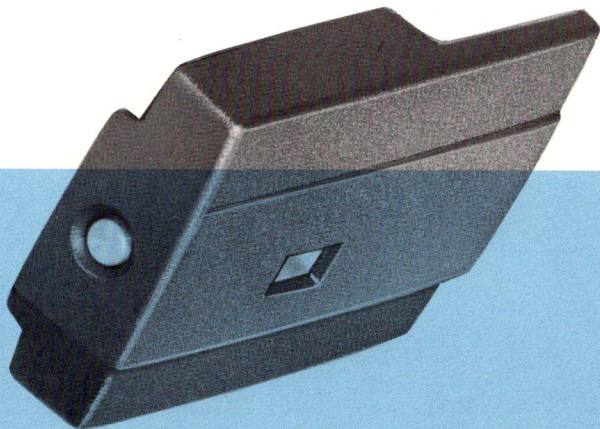


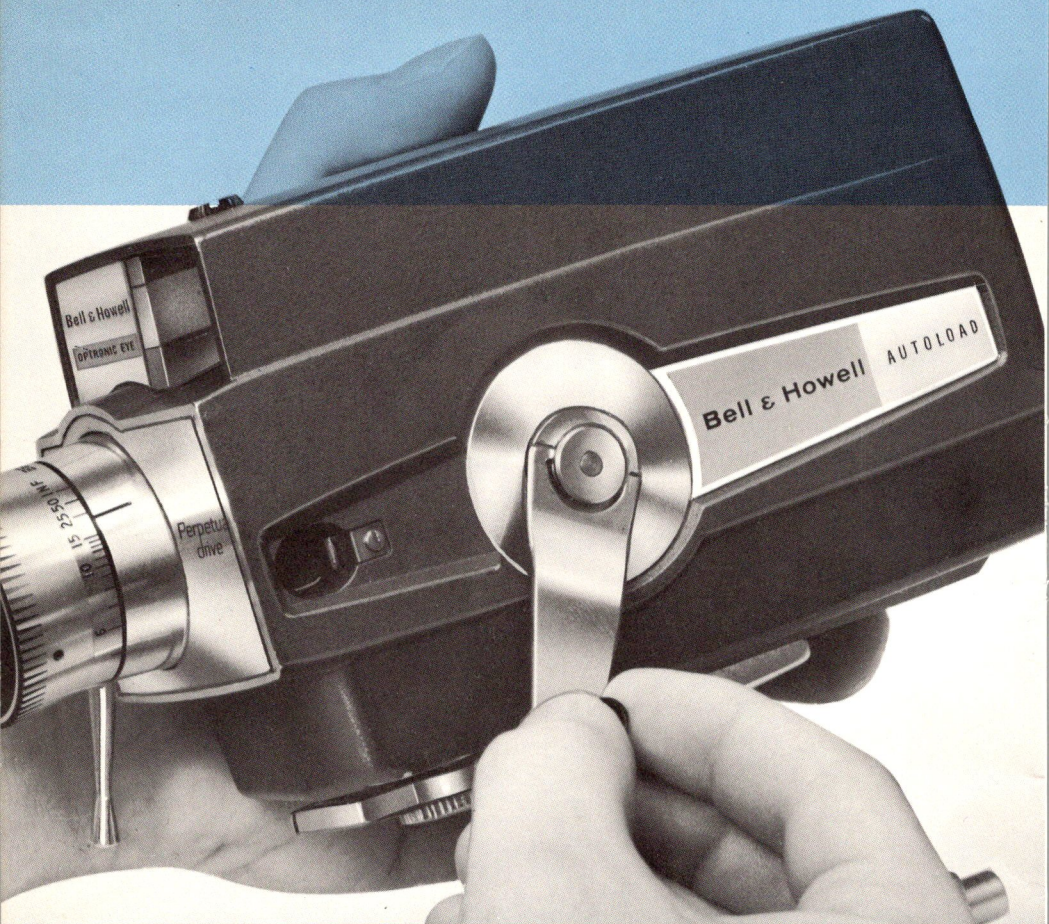
**REMOVE CAMERA DOOR
INSERT FILM CARTRIDGE**

LOADING CAMERA

Now that you are familiar with some of your new camera's features, and we know that you're anxious to take movies, let's get started. Read the important easy to follow step-by-step instructions and find out how simple it really is to use your camera.

You will notice that there is a button on the back side of your camera. Press the button in and it will release the camera door. The door will come off completely. Now that the door is removed, you see a big area made just the right size to accept the new Super 8 film cartridge. (Your camera will not accept regular 8 film, so when you purchase film make certain you specify "Super 8".) Insert the film cartridge. Once the cartridge is positioned, just replace the door by positioning it back on the camera. Push down a little until you hear the closing "click." Your camera is loaded. That's all there is to it . . .





2

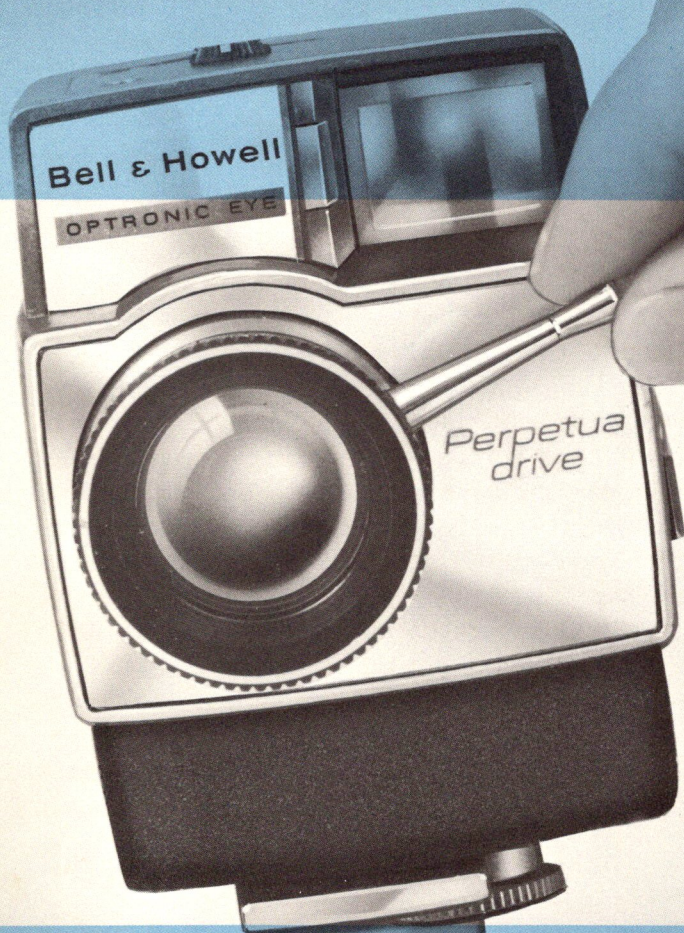
FULLY WIND
CAMERA

WINDING CAMERA

Look over on the side of your camera. There you will find the winding crank. Release the crank by lifting it up with your thumb. It opens like a hinge. Move the handle across the side of your camera from its original position and wind it in a clockwise motion. Wind the handle until it stops. You have just wound 30 feet of continuous filming power. Then move the handle across the side of your camera and lock it into a stationary position by snapping it closed in the little hole. A special slip clutch makes it impossible to overwind your camera.

It's a good idea to wind your camera again when your Footage Indicator shows that you have used up half of your film. This will prevent you from having to wind the camera during a filming sequence that you do not wish to interrupt.

You are ready to start filming, but a little more patience and reading on will go a long way for successful movie-making.



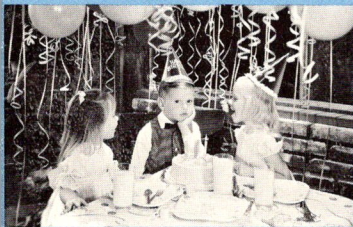
**ZOOM TO
EXCITING EFFECTS**

ZOOMING

Look through the viewfinder and move the zoom lever up or down. This lets you frame your subject as pictured below. Move the lever down and your subject will come closer (telephoto). Move the lever up and you will include more in your picture (wide angle).

It's fun to zoom and zooming will produce exciting scenes when viewed on your screen. However, this technique should be used sparingly . . . where you want to call special attention to a subject, or to create special effects.

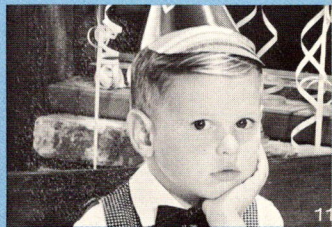
Wide Angle



Normal



Telephoto




WITHOUT ACTION GRIP

Hold Camera
firmly as
illustrated
with finger
on starter
button.

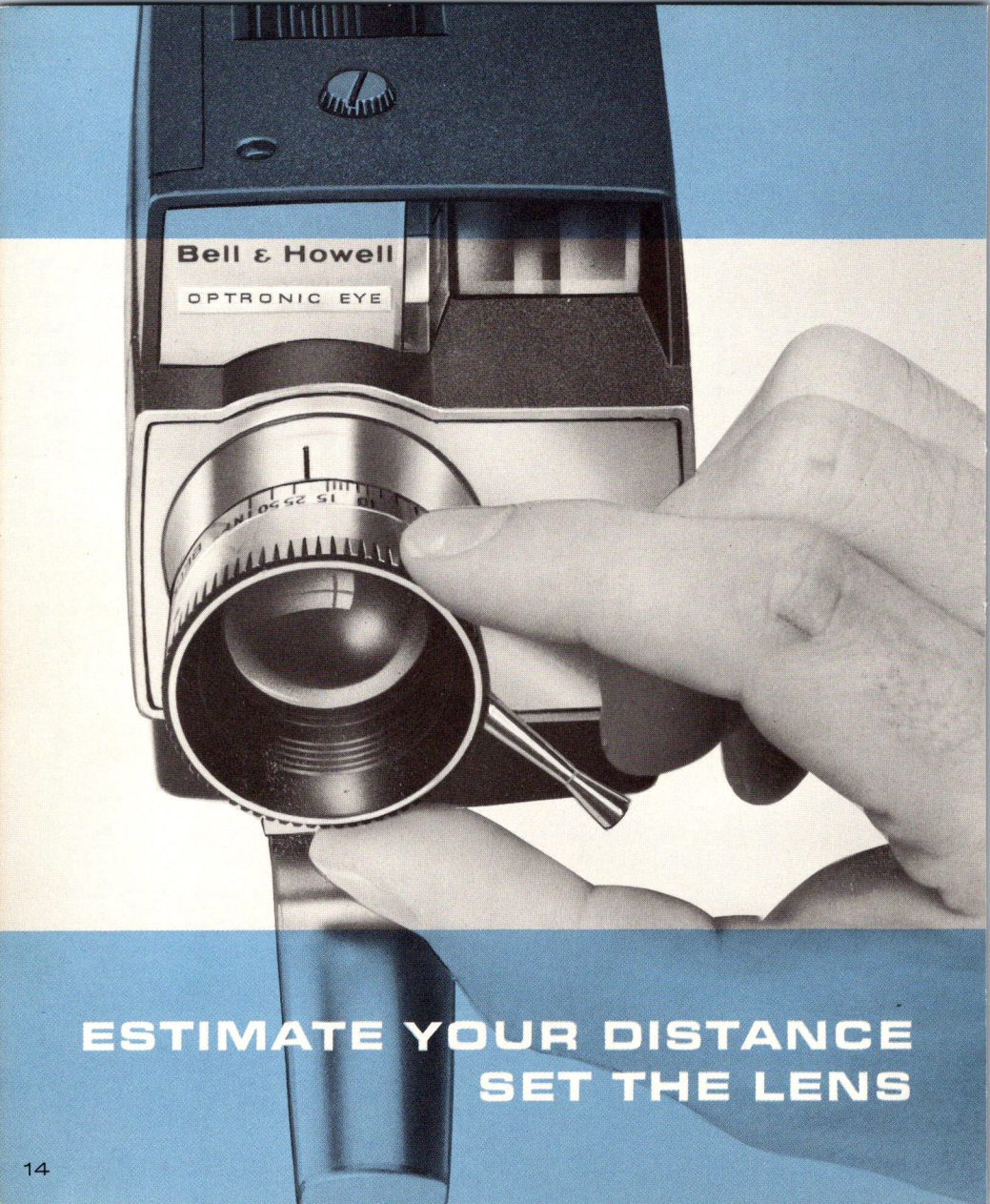
**HOW TO HOLD
YOUR CAMERA**

WITH ACTION GRIP



Balance and firmly hold Action Grip between fingers. Most people find the position shown to be most comfortable. The Action Grip has a starter button on the back of the grip. To use the starter button on the top of your camera, see page 21. When the Action Grip is attached to the camera, you may use either the regular starter button or the button on the rear of the Action Grip. The Action Grip will not operate single frame. (The Action Grip is available as an accessory.)

NOTE: When operating the starter button on Action Grip, it is possible to lock the camera in continuous run. If this happens, simply release it by using the Starter Button on top of the camera.



Bell & Howell

OPTRONIC EYE

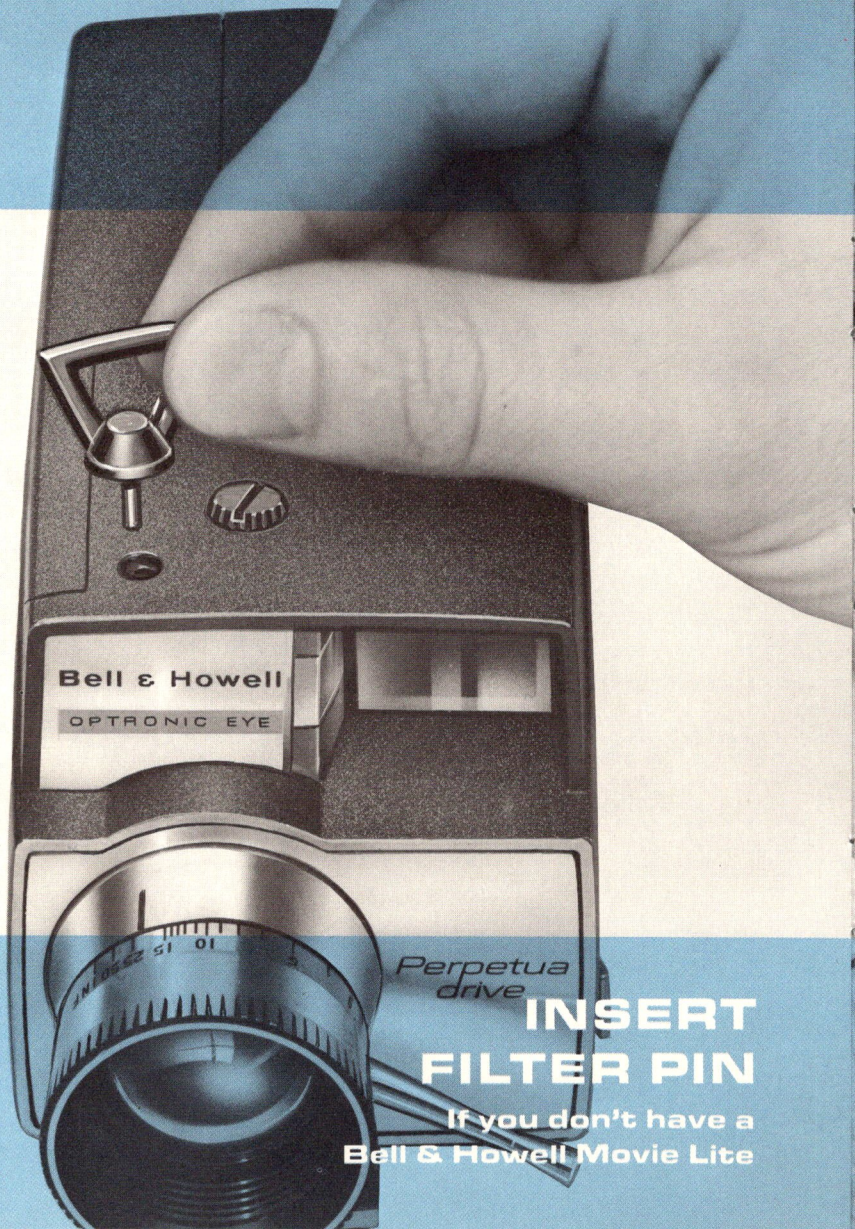
**ESTIMATE YOUR DISTANCE
SET THE LENS**

SETTING THE LENS FOR DISTANCE

If you look at the front of your lens, you will see a numbered scale for setting distance.

Rotate the lens until you feel a click between 15 and 25 feet (illustration). This is the position you will want to use for most of your movies. However, best results will be obtained (especially when filming closeups or under low light conditions) if the lens is set at the correct distance from which you are shooting a subject. The lens settings are from 3 feet to infinity. To set your lens, estimate the number of feet from the camera to the subject. Rotate the lens until this number is opposite the black line.

NOTE: The telephoto position generally requires a more accurate distance setting than the wide angle position. This is because the telephoto lens magnifies your subject and therefore it magnifies any error in the distance setting.



Bell & Howell

OPTRONIC EYE

*Perpetua
drive*

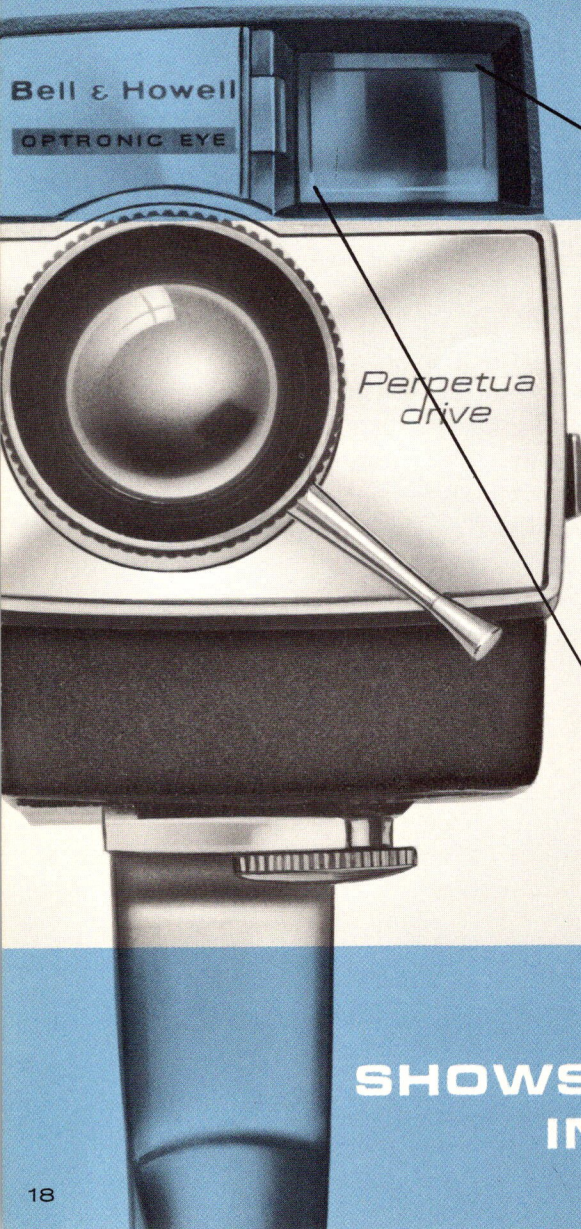
**INSERT
FILTER PIN**

If you don't have a
Bell & Howell Movie Lite

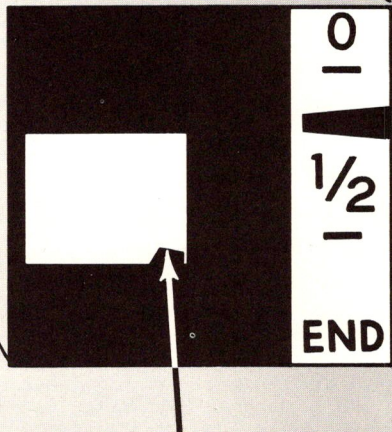
USING ARTIFICIAL LIGHT FOR INDOOR MOVIES

When you are shooting indoors and using artificial light, the Bell & Howell Movie Lite will make your filter settings automatically. When using other light sources, you must insert the filter pin which is included with your camera into the socket provided for it on the top of your camera. Be sure to insert the filter pin all the way into the socket. After the filter pin is correctly inserted, it will automatically set the correct filter position which is needed when using artificial lighting. For best results when taking indoor movies, it is important to make an accurate distance setting on the lens.

NOTE: Be certain to remove the Pin when you are not using artificial light. It's a good idea to tie the filter pin to the light bar being used so it is not lost.



*Perpetua
drive*



INSUFFICIENT LIGHT
INDICATOR

**VIEWFINDER
SHOWS IMPORTANT
INFORMATION**

INSUFFICIENT LIGHT INDICATOR

When looking through the viewfinder, you will find that sometimes a flag will pop up in the lower right-hand corner of the viewfinder. When this happens, your camera is telling you not to shoot, because there isn't enough light. If you think of this feature as a "stop light," it will save you many disappointments and eliminate the necessity of splicing out dark sections of your film.

FOOTAGE COUNTER

As you look through the viewfinder, far on the right you will see a panel of numbers marked "0, ½, and END." This is your footage counter and will tell you how much film you have taken. The footage counter moves very slowly but records accurately the amount of film you have used. The footage counter only functions when a cartridge is in place and automatically resets to "0" when cartridge is removed.



**NOW YOU'RE READY
TO TAKE MOVIES**

JUST PRESS THE STARTER BUTTON

Now you are completely familiar with your new camera except for one feature. It's the Starter Button. Remove film cartridge from camera before experimenting with Starter Button.

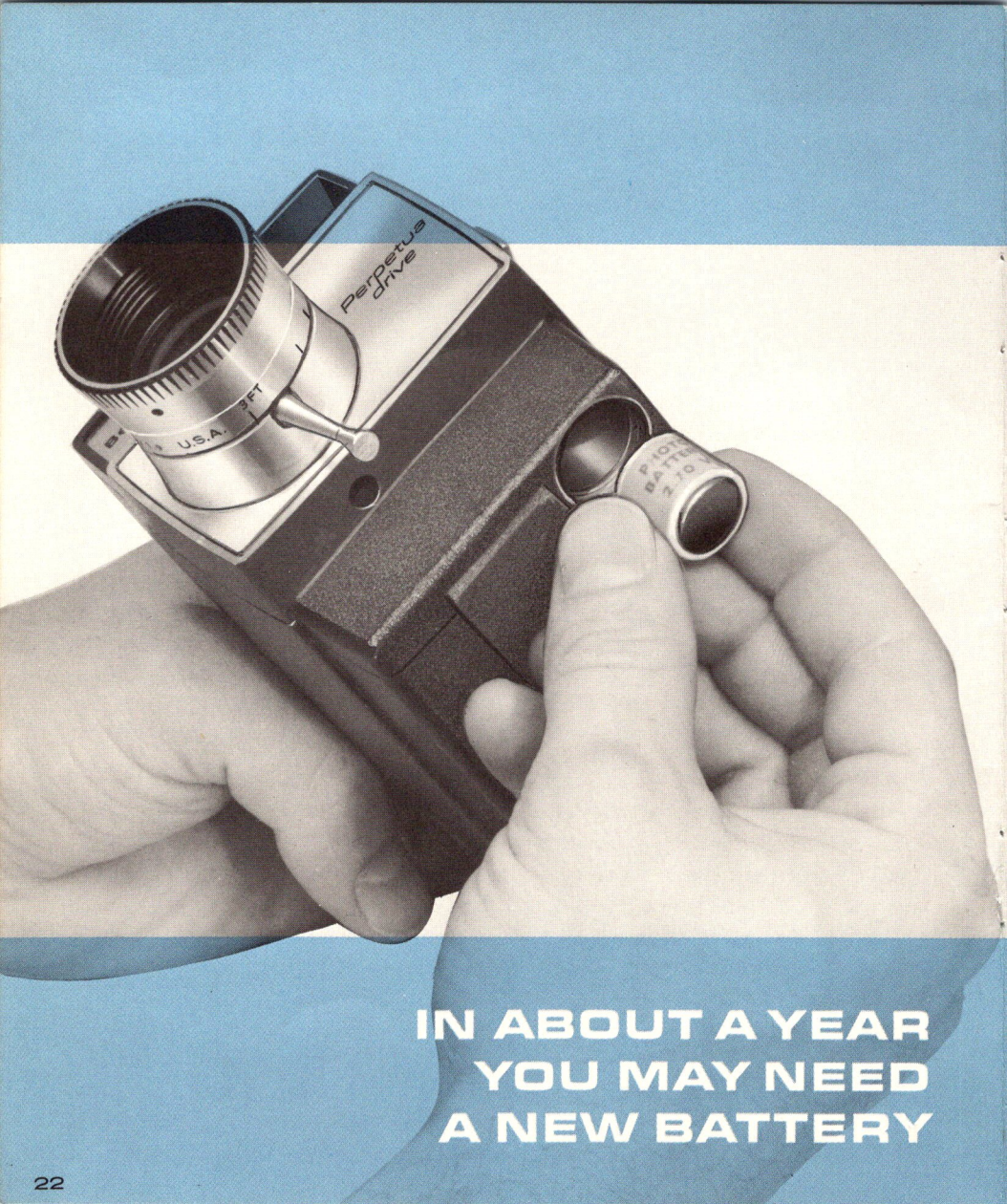
You will find the Starter Button on the top of your camera and it has 3 positions.

1. By pressing the Starter Button on its right-side with just a little finger pressure, your camera will run until you release your finger.

2. If you want your camera to run continuously so that you may step into the picture, place the camera on a tripod or steady surface and apply more finger pressure so that the starter button will lock in place. This position is called "Lock Run". Your camera will be filming until you stop it by applying a gentle finger pressure to the left-side of the starter button.

3. When you apply pressure to the left-side of the starter button, you will hear a clicking sound which means your camera is filming a single frame at a time. To make the best use of your single frame provision, set the camera on a steady surface or tripod and use only for filming of titles and special effects. A cable release may be used to insure steady filming under these conditions. Simply screw it into the hole provided on the left-side of the starter button. It operates single frame only.

Now . . . Your patience is about to be rewarded! Replace film in your camera, be sure to wind the motor fully, and pick out your first subject. Have fun! And we wish you success wherever your movie-making adventures take you.



**IN ABOUT A YEAR
YOU MAY NEED
A NEW BATTERY**

BATTERY REPLACEMENT

Your new camera is equipped with an electric eye battery that should last one year. A typical indication that your electric eye battery is wearing out is that the insufficient light indicator will be visible in the viewfinder under bright light conditions. Use replacement battery Mallory 2.7V PX-14 or equivalent + side up.

KEEPING YOUR CAMERA CLEAN

Keep your camera clean to help you get best results while filming. To clean your camera, wipe away dirt when necessary from lens and viewfinder with a piece of lens tissue moistened with lens cleaner. Use a dry cloth to wipe the "film channel" area clean. (It's the small window-like area visible inside camera where the film passes as it's being exposed.) Have your camera checked and cleaned periodically by an Approved Bell & Howell Service Station.

MOVIE-MAKING TIPS

1. In most filming situations, you'll find that if you "keep the sun over your shoulder" you'll get best results unless you want to film for special effect. Shooting into sunlight can cause an unpleasant glare.
2. For indoor shooting with a Movie Lite, always keep your subject further from the camera than it is from the background. This will give you good over-all lighting because your subject and background will have an equal amount of light.
3. When you take movies indoors with a Movie Lite attachment, the insufficient light indicator will frequently appear warning you of insufficient light. However, if you keep your subject within 15 feet of your camera and light source, your movies will be correctly exposed.
4. When you want to "pan"—that is move the camera horizontally while your scene is being shot, there are several things you should remember:

(a) When panning to follow a moving subject, keep it centered in the viewfinder. (b) As a rule, you'll get best results if you pan from left to right. (c) Never pan on close-ups—you'll get a blur. (d) Pan only when absolutely necessary and hold your camera steady.

5. Animation or single frame is used for making titles or for shooting special effects. If you move a doll for example, and then take about 20 single frame pictures with each movement, the doll will appear as though it were moving when you project it on your screen. You'll probably want to experiment with this technique as it will add interest and variety to your movies.

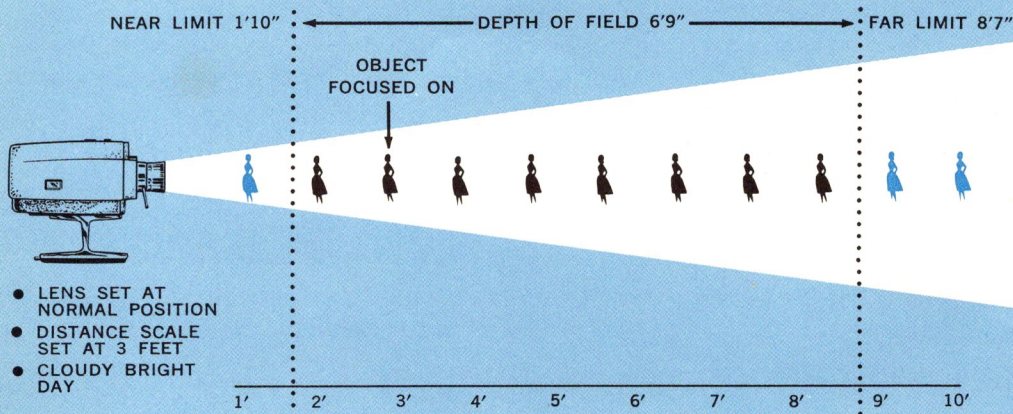
SHOOTING TITLES AND CLOSE-UPS

When shooting titles or close-ups, at a distance of 3 feet or closer, it is necessary to compensate for the position of the lens and viewfinder (parallax). Since the lens is slightly lower, and to the right of the viewfinder, first center your subject in the viewfinder. Then move the camera upward $1\frac{1}{4}$ " and 1" to the left when looking at the back of the camera.


DEPTH OF FIELD CHARTS

(ASA 40/25 FILM)

DEPTH OF FIELD EXAMPLE




WIDE ANGLE (11mm)


		INDOORS	HEAVY OVERCAST	CLOUDY BRIGHT (NO SHADOWS)	BRIGHT OR HAZY SUN OR LIGHT SAND OR SNOW
		OBJECT DISTANCE			
3 ft.	NEAR	2' 4"	1' 7"	1' 4"	1'
	FAR	4' 3"	20'	INF	INF
20 ft.	NEAR	6'	3'	2'	2'
	FAR	INF	INF	INF	INF
50 ft.	NEAR	8'	3'	2'	2'
	FAR	INF	INF	INF	INF

Depth of Field means the range in which the lens on your camera is in focus. The Depth of Field changes as the lens opens or closes and when zooming in or out. This Depth of Field chart shows your subject distances, and the near and far limits at which that subject is in focus. Note that the Depth of Field is more critical in the telephoto position.

NORMAL (15mm)

		INDOORS	HEAVY OVERCAST	CLOUDY BRIGHT (NO SHADOWS)	BRIGHT OR HAZY SUN OR LIGHT SAND OR SNOW
		OBJECT DISTANCE			
3 ft.	NEAR	2' 7"	2'	2'	2'
	FAR	4'	5'	9'	31'
20 ft.	NEAR	10'	5'	4'	3'
	FAR	INF	INF	INF	INF
50 ft.	NEAR	14'	6'	4'	3'
	FAR	INF	INF	INF	INF

TELEPHOTO (35mm)

		INDOORS	HEAVY OVERCAST	CLOUDY BRIGHT (NO SHADOWS)	BRIGHT OR HAZY SUN OR LIGHT SAND OR SNOW
		OBJECT DISTANCE			
3 ft.	NEAR	2' 11"	2' 9"	2' 7"	2' 7"
	FAR	3' 1"	3' 3"	3' 7"	3' 7"
20 ft.	NEAR	16'	13'	11'	9'
	FAR	27'	46'	INF	INF
50 ft.	NEAR	29'	46'	16'	13'
	FAR	56'	INF	INF	INF

Bell & Howell / GUARANTEE

This new Bell & Howell product is guaranteed to be free from imperfections in both material and workmanship for one year from date of original purchase. Should any part of this equipment be defective, it will be replaced or repaired free of charge (except for transportation), providing the equipment has been operated according to the instructions accompanying it.

No liability is assumed for film which is damaged or is unsatisfactory for any reason and no liability is assumed for interruptions in operation of equipment. This guarantee is void:

- a) If equipment has been damaged by accident or mishandling:
- b) If equipment has been serviced by other than Bell & Howell approved service stations*;
- c) If adaptations or accessories other than Bell & Howell have been made or attached.

The foregoing is in lieu of all other warranties express or implied and Bell & Howell Company neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with this product.

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**Location of nearest approved service station will be furnished on request.*

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