

Canon AUTO ZOOM 1014 ELECTRONIC

English Edition

Your Passport to Creative Movies



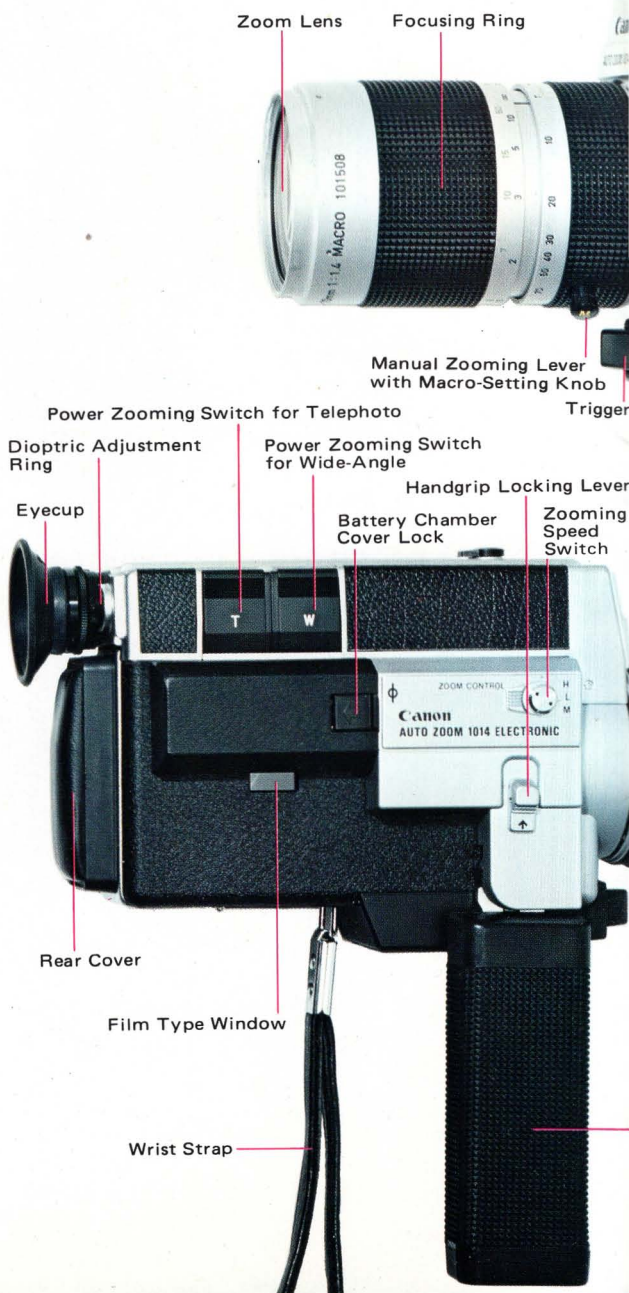
8 Main Features of the Auto Zoom 1014 Electronic

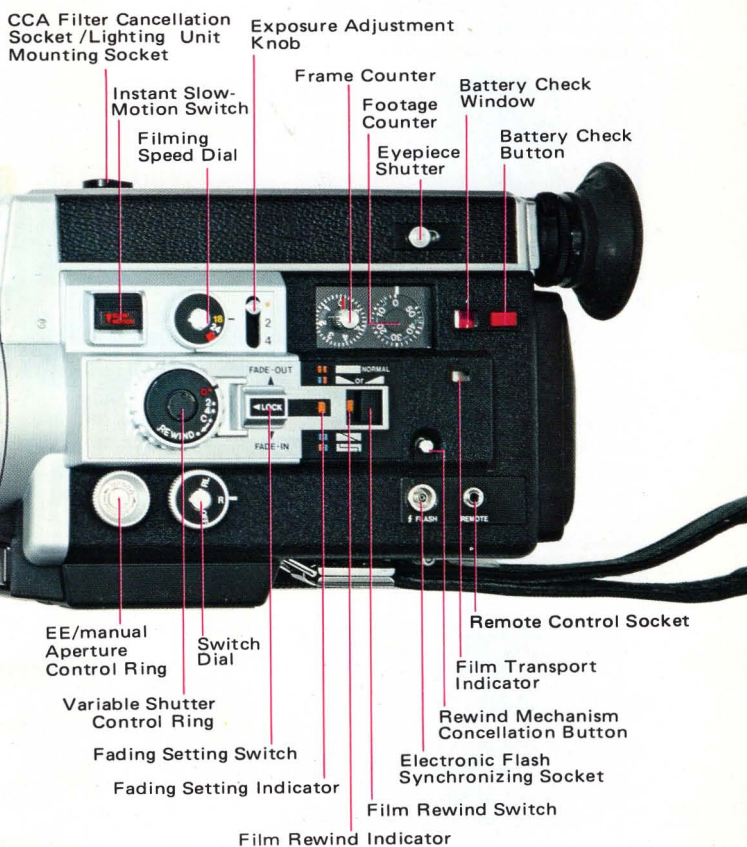
- 1** A fast $f/1.4$ lens with a 10x zoom. Bright enough to guarantee a sharp image and powerful enough to put you right on top of any subject.
- 2** Aperture control activated by a highly sensitive CdS photo-cell automatic exposure system. The aperture is regulated by a shock-resistant servo motor for consistently accurate setting.
- 3** Split image focusing in a bright, large viewfinder. The viewfinder also displays the exposure reading, warning marks, variable angle shutter setting, film-end caution lamp, and film transport indicator lamp.
- 4** Four filming speeds, including 18 fps, 24 fps, single-frame, and instant slow motion at 54 fps. Slow motion and regular speed filming can be quickly alternated to follow rapid action with fascinating precision.
- 5** Variable shutter angle for fade-in, fade-out, lap dissolve, and superimposition. The shutter angle can be continuously changed from 0° to 150° for precise control of fading at any aperture setting. And the auto-fader mechanism can control up to 60 frames of lap dissolve for professional quality movies.
- 6** Built-in macro shooting for close-ups without special accessories or sophisticated techniques. Subjects as close as 10mm ($3/8''$) from the front of the lens can be brought into astoundingly sharp focus.
- 7** Timing accessories to permit unmanned single-frame or continuous shooting. Unmanned nature photography, including plants, animals or cloud formations, can give an exciting new look at the world.
- 8** Electronic flash contact for synchronization of single-frame shooting. With the remote control mechanism and magnetic trigger system, electronic flash synchronization is easy.





Nomenclature



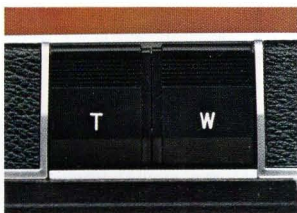


Folding Type Handgrip with Battery Chamber

Unique Performance of Each Part

Macro-setting Knob

Pull out the macro-setting knob, then rotate the zooming ring into the MACRO range. Close-ups of nature, including flowers, birds or insects, and close-ups for titling are made without the addition of a special lens.



Power Zooming Switches

To begin zooming, press either of the power zooming switches, marked T and W. The "W" switch alters the lens' focal length to produce a wide-angle effect. The "T" switch alters the lens' focal length to produce a telephoto effect. The zoom range is 7-70mm.

Zooming Ring

For zooming faster or slower than the speed of power zooming. The technique used in manual zooming with the zooming ring requires some practice for complete expressive control.



Power Zooming Speed Switch

This switch has three different settings; H, L, and M. The "H" setting controls the faster of the Auto Zoom 1014's two zooming speeds. By using either of the power zoom switches with the power zooming speed switch set at "H", the focal length changes from wide-angle to telephoto in only 5 seconds. When the switch is turned to its "L" setting, power zooming takes place in 7 seconds. When the switch is set at "M", the manual zooming ring may be used.

Instant Slow Motion Knob

When this knob is pressed down, film speed immediately changes from the normal speed of 18 or 24 fps up to a high-speed of 54 fps. Releasing the knob automatically returns the film speed back to normal. Using the instant slow motion knob, your films can incorporate an alternation of film speeds to add interest and excitement.



AE/Manual Aperture Control Ring

By pulling out the ring, the Auto Zoom 1014's aperture can be set manually. Manual aperture setting is necessary whenever a

unique low level lighting effect is desired. It is also necessary to retain proper exposure when shooting back-lit subjects. If the ring is pushed back in the Auto Zoom 1014's exposure control resumes its automatic function.

Variable Shutter Control

The shutter leaves in the Auto Zoom 1014 can be adjusted from an angle of 0° to their full opening of 150° by using the variable shutter control ring. A four-step scale is printed on the body to show how much the shutter angle has been changed. With the control, fading and lap dissolve can be performed.

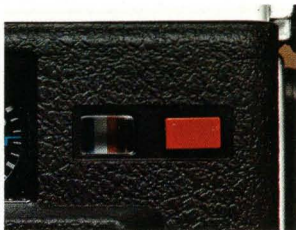
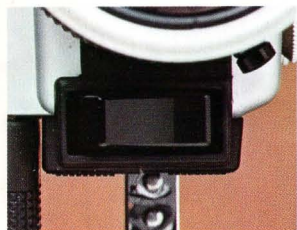


CCA Filter Cancellation

A CCA (Color Conversion A) filter is built in to allow artificial light film to be used for daylight shooting. The filter is cancelled when taking movies with an artificial light by inserting the Cancellation Adapter into the CCA filter cancellation socket.

Trigger

The Auto Zoom 1014's trigger has two stages of operation. A light squeeze activates the camera's exposure meter to check the light before shooting. A firmer squeeze engages the electric film drive to begin shooting immediately.



Battery Check

The batteries' power level may be checked with just one touch. Push the battery check button and monitor the level in the battery check window.

Remote Control Socket

Remote control shooting is operated by either of two special switches inserted into the remote control socket. Remote Switch 3 has an 8 meter remote control cord for use in nature observation. Remote Switch 60 has 60cm remote control cord to help avoid blur in normal or single frame shooting.



Frame Counter Set Knob

A complete turn of the counter measures the exposure of 72 frames, or approximately one foot of film. In order to set the counter, rotate the knob until the indication needle points to "0". The counter aids in shooting single frames and also in shooting double exposures.

Three Lenses in One

The Auto Zoom 1014 Electronic has an $f/1.4$ lens which does the job of three conventional lenses. First, it functions as a standard lens. Nine rare earth glass elements are included within its 18 element—13 group lens construction. This lens has fantastic light transmission and stops down to $f/32$ permitting the use of a fast film even in bright daylight. And because it so perfectly utilizes the light-gathering ability of $f/1.4$, the 1014's lens is ideally suited for low illumination tungsten-type ASA 160 film. Now you can shoot indoors without the irritation of glaring movie lights to make home movies much more spontaneous, much more fun.

Second, this $f/1.4$ functions as a zoom lens. With a focal length of up to 70mm, the Auto Zoom 1014 Electronic offers a 10:1 zoom ratio for close observation of any subject.

Because the zoom is regulated manually or with either of the two power zooming switches, the speed and the zooming can be precisely controlled for best results. Third, this lens functions as a macro lens. Without any accessories and without any sophisticated technique, you can shoot as close as 10mm ($3/8''$) from

Ten-time zooming



Macro-shooting



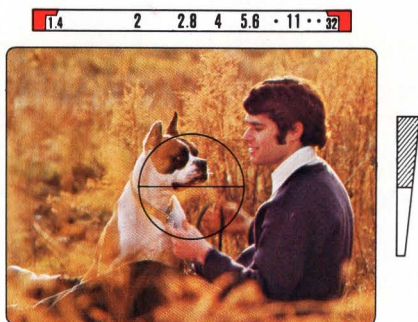
any subject. Close-ups of nature titling, any subjects that you want to investigate closely can be brought into sharp focus, creating a dramatic effect.

Because the lens of the Auto Zoom 1014 Electronic has these three exciting functions, both zooming and macro-shooting can be combined to create a striking effect. By setting the focusing ring to infinity, you can begin a scene focused on a nearby object using macrophotography, then gradually shift the focus to the rest of the scene while zooming up on a special subject. This technique allows you to bring your own personal creative touch into movie making.

A Viewfinder that Does More

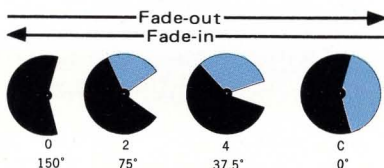
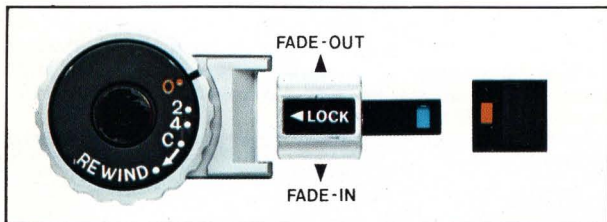
The Auto Zoom 1014 Electronic features a clear and bright viewfinder. It shows you the same image that will be exposed on your film, eliminating guesswork in the composition of each shot. Focusing is made easy, too, with a split-image system. If both halves of the image inside the split-image circle come together, the subject is in perfect focus. Once a subject is focused, it stays focused, even during zooming. But this viewfinder does more by becoming a complete information

center. It provides light meter readings, including an aperture scale, meter needle, and over/under-exposure warning marks. You are always sure of the exact diaphragm opening being set by the automatic aperture control. On the right of the viewfinder is the variable angle shutter indicator which monitors shutter angle during fadings or lap dissolve. On the bottom left of the viewfinder is the film-end caution lamp which lights when only 2 feet of film are left. On the bottom right of the viewfinder is the film transport indicator lamp which will blink as long as the film is running properly.

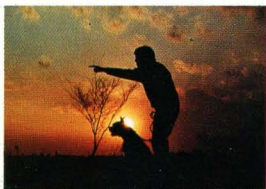


Variable Shutter Control

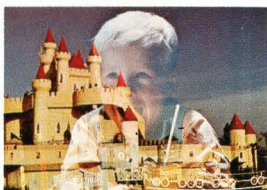
By changing the opening angle of the shutter's semicircular leaves, you can closely regulate the precise amount and intensity of light which exposes each frame of your film. So that while the lens aperture remains set at one specific opening, the angle of the shutter leaves can open or close to change the brightness of the exposed image. Fade-ins and fade-outs can be precisely controlled to produce professional quality introductions, scene changes, and endings. The Variable shutter control has five different markings: OPEN, 2, 4, CLOSE, and REWIND. At OPEN, the shutter angle is set to the maximum 150° and allows all the light admitted by the lens to strike the film. At 2, the shutter angle is reduced by half to 75° and only half the light coming through the lens is allowed to register on the film. At 4, the shutter angle is 37.5° and one-quarter of the light is admitted. At CLOSE, the shutter angle is reduced to 0° with no image exposed on the film. At REWIND, the film cartridge is automatically rewound to allow for lap dissolve or intentional double exposure.



Fade-out



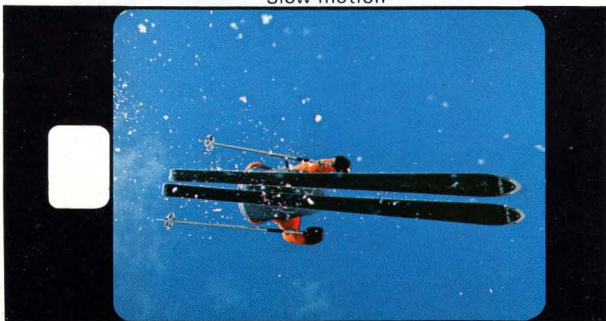
Lap Dissolve



Filming Speeds and Slow Motion

The Auto Zoom 1014 Electronic has three different filming speeds: 18, 24 and 54 frames per second. The slowest of these three speeds, 18 fps, is the standard filming speed for Super 8 movie cameras. To set this speed, turn the filming speed dial to "18" where it will click into place. Most Super 8 projectors are set to project at a speed of 18 fps, therefore films shot at this speed should appear natural and life-like. The middle filming speed, 24 fps, is generally used in special cases: when making a sound film, when zooming, to avoid blur while panning, to slow and soften motion. Films which are shot at 24 fps, and projected at the standard 18 fps will show action at approximately 3/4 the normal speed of motion. Rapid action is easier to follow, while zooming and panning are considerably more pleasing. The fastest speed, 54 fps, is used for slow motion. When you press the

Slow-motion



instant slow motion knob while filming at either 18 fps or 24 fps, the filming speed immediately increases to 54 fps.

By releasing the knob, filming speed immediately returns to the original speed. With this one-touch action, slow motion shots may be easily interspersed with normal action. This variety will make your films more interesting.

Time Interval Control Shooting

The Auto Zoom 1014 Electronic can be used with Canon's three different timing accessories to give you accuracy in controlling unmanned photography. Each of the timers uses a specially designed magnet release mechanism to save the Auto Zoom 1014's batteries from a steady and unnecessary power drain. And each of the timers is very easy to operate. By plugging them into the remote control socket and setting the switch dial to its "RL" position, the timers take over the camera's operation.

Interval Timer E is used for continuous single frame shooting. Any interval between frames, from 1 second to 60 seconds, can be preset on the timer's dial. This timer is specifically designed to photograph long and continued change in a subject, and it will shoot frame by frame until battery power is completely exhausted.

Self Timer E activates a ten-second period of continuous shooting, ten seconds after the timer has been turned on. The timer will repeat this cycle each time its shutter release button is pressed.



Accessories

Filters

Canon offers thirteen different filters; seven for use with color film, six for use with black and white. They each compensate for a particular kind of light. However, since the Auto Zoom 1014 Electronic uses a through-the-lens metering system, the diaphragm will always be set automatically to the proper aperture no matter which filter is used.

Close-up Lenses C-8

Canon's exclusive 58mm Close-up Lenses, the 450 C-8-2 and the 240 C-8, put zooming into close-up photography. Both lenses completely compensate for chromatic aberration, to give you distortion-free close-ups in titling, copy work, or nature observation.

Remote Switches

The Remote Switch 60, with a 60cm cord, and the Remote Switch 3, with an 8 meter cord, allow operation of the Auto Zoom 1014 Electronic from a distance.

When any vibration of the camera would spoil your shot, use a vibration-free Remote Switch.



SPECIFICATIONS

Type: 8mm movie camera with easy-loading system using Super 8 film cartridge.

Picture Format: 5.4 x 4.0mm.

Lens: f/1.4 with focal length of 7mm—70mm. Zooming ratio 10:1. Eighteen elements in thirteen groups including nine rare earth glass elements. With Super Spectra Coating. Inner diameter, 58mm. Outer diameter, 60mm.

Viewfinder: With split-image screen rangefinder. Meter information (diaphragm scale, meter needle, over/under-exposure warning marks, film-end caution lamp, shutter angle indicator and film transport indicator lamp). Eyepiece is adjustable (−4 to +2 diopter). Built-in eyepiece shutter and eyecup.

Metering System: CdS photocell automatic exposure system coupled to film speed and filming speed.

Light Metering Range: From ASA 400, f/1.4, 18 fps. to ASA 16, f/32, slow motion (54 fps.), and single frame shooting.

Film Speed: Automatically set by inserting the film cartridge.

Artificial Light Film: ASA 25, 40, 64, 100, 160, 250, 400

Daylight Film: ASA 16, 25, 40, 64, 100, 160, 250

Variable Shutter Control: 0° to 150°.

Lap Dissolve: 60 frames of lap dissolve are possible.

Manual Aperture Control: With AE/manual aperture control ring.

Power System: Automatic filming and zooming by precise micromotors.

Power Source: Six 1.5V penlight (Size AA) batteries.

Power Zooming: Two speeds, H=5 seconds, L=7 seconds.

Manual Zooming: With zooming ring.

Running Ability: About 10 cartridges at normal temperature. Single-frame shooting with new batteries, approximately 1.5 cartridges.

Footage Counter: Automatically resets by removing the cartridge.

Frame Counter: 72 frames in one rotation. (1 ft). 2 frames per scale. With adjustable indication mark.

Sockets: For remote control, and for electronic flash synchronized to single-frame shooting.

Safety Devices: Over/under-exposure warning marks, shutter lock, shutter angle indicator and film transport indicator.

Macro-Shooting System: Close-up shooting mechanism works by switching the zooming ring. When the distance scale is set at infinity, it is possible to get at 189mm (7-7/16") from the film plane indicator and 10mm (3/8") from the tip of the lens to the subject.

Time Control and Interval Shooting: With the Interval Timer E and the Time Lapse Programmer.

Self-Timer: 10 seconds shooting with Self-Timer E.

Accessories: Rubber Lens Hood S-60, 58mm Filter, 58mm Close-up Lens 450 C-8-2, 240 C-8, Remote Switch 60, Remote Switch 3, Lens Cap, CCA Filter Cancellation Adaptor, CCA Filter Cancellation Adaptor Socket Cover, Cover for Remote Control Socket, Interval Timer E, Self-Timer E, * Time Lapse Programmer, Extension Cord E1000.

(* Available upon special order.)

Size: 93.5 x 277 x 121mm (3-11/16" x 10-15/16" x 4-3/4").

Weight: 1,990 gr. (4 lb. 6 oz.) with batteries.

Subject to change without notice.

Canon

CANON INC. 9-9, Ginza 5-chome, Chuo-ku, Tokyo 104, Japan

U.S.A.

NEW YORK — **CANON U.S.A., INC.**
10 Nevada Drive, Lake Success, Long Island, N.Y. 11040, U.S.A.

MANHATTAN — **CANON U.S.A., INC.**
600 Third Avenue, New York, N.Y. 10016, U.S.A.

CHICAGO — **CANON U.S.A., INC.**
457 Fullerton Avenue, Elmhurst, Illinois 60126, U.S.A.

LOS ANGELES — **CANON U.S.A., INC.**
123 Paularino Avenue East, Costa Mesa, California 92626 U.S.A.
CANON U.S.A., INC.
3113 Wilshire Boulevard, Los Angeles, California 90010 U.S.A.

CANADA

TORONTO — **CANON OPTICS & BUSINESS MACHINES CANADA, LTD.**
3245 American Drive, Mississauga, Ontario, L4V 1B8, Canada

MONTREAL — **CANON OPTICS & BUSINESS MACHINES CANADA, LTD.**
3070 Brabant Marineau Street, St. Laurent, Quebec, H4S 1K7, Canada

EUROPE AFRICA & MIDDLE EAST

AMSTERDAM — **CANON AMSTERDAM N.V.**
Gebouw 70, Schiphol Oost, Holland

CENTRAL & SOUTH AMERICA

PANAMA — **CANON LATIN AMERICA, INC.**
Apartado 7022, Panamá 5, República de Panamá