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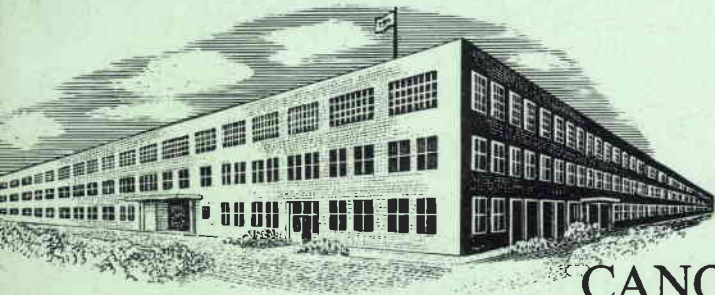
INSTRUCTIONS



MODEL V

Canon

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CANON Camera Co.,

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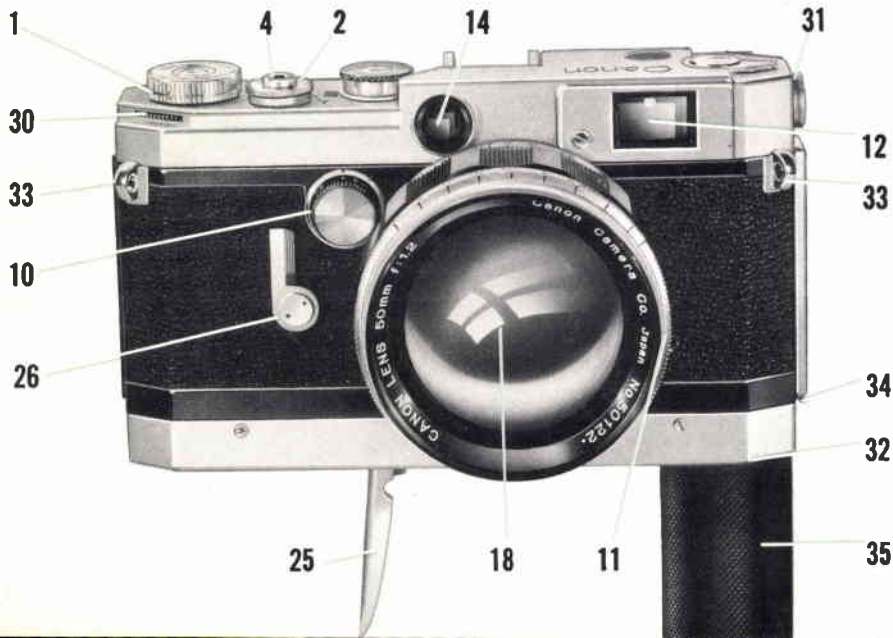
Inc. • 312, Shimo-maruko-cho, Ohta-ku, Tokyo, Japan

U. S. Factory Branch • 550 Fifth Avenue • New York 36, N. Y.

A large, stylized graphic element resembling a thick, curved arrow or a stylized 'C' shape, pointing towards the right. It is composed of two concentric, slightly offset curves, one in a light green color and the other in white, set against a solid light green background.

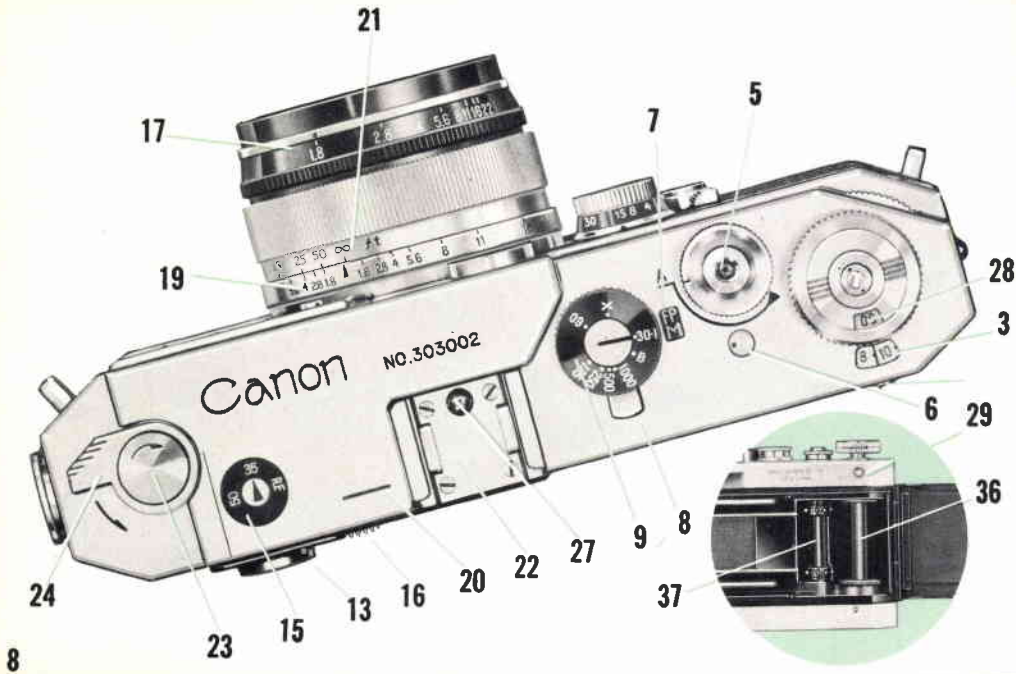
Canon MODEL **V**





- | | |
|---|---|
| 1. Film Winding Knob
(Manual) | 25. Rapid Wind Trigger |
| 2. Film Rewind Ring (Shutter
Release Button Guard) | 26. Built-in Self Timer |
| 4. Shutter Release Button | 30. Film Frame Counting Dial
Setting Wheel |
| 10. Slow Speed Shutter Dial | 31. Flash Unit Connector
Socket |
| 11. Lens Focusing Lever | 32. Tripod Socket (ASA) |
| 12. Range-Viewfinder Window | 33. Eyelets for Neck Strap |
| 14. Rangefinder Window | 34. Lock for Hinged Back |
| 18. Lens | 35. Pistol Grip for Rapid Winder
(Sold as accessory) |

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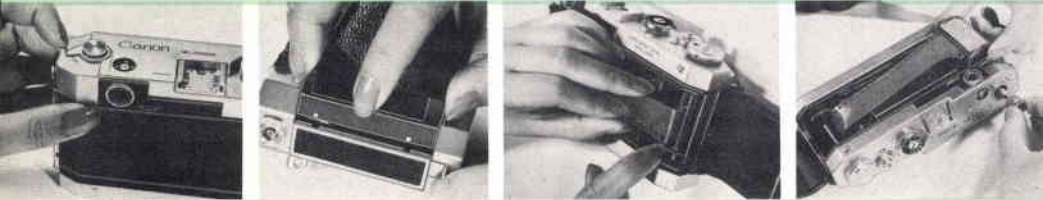
- | | |
|--------------------------------------|--|
| 3. Film Frame Dial | 20. Film Plane Mark |
| 5. Cable Release Socket | 21. Lens Depth-of-Field Scale |
| 6. Film Transport Indicator | 22. Accessory Clip |
| 7. Flash Synchronization Dial | 23. Film Rewind Knob |
| 8. Flash Synchronization
Selector | 24. Rewind Knob Release Lever |
| 9. High Speed Shutter Dial | 27. Automatic Parallax
Adjustment Pin |
| 13. Range-Viewfinder Eyepiece | 28. Film Type Indicator |
| 15. Viewfinder Dial | 29. Release Button for Manual
Film Winding Knob |
| 16. Viewfinder Selector | 36. Built-in Take-up Spool |
| 17. Lens Aperture Scale | 37. Film Roller |
| 19. Lens Distance Scale | |

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Any standard 35mm film cartridge will fit the Model V.

Slide the Rewind Knob Release Lever (24) in the direction shown by the arrow. The film Rewind Knob (23) will spring up part way, draw it up fully to facilitate turning.

To open the camera, press down on the Lock for Hinged Back (34) and the camera will swing open.



Rotate the Take-Up Spool (36) until the groove on the spool permits you to slide the end of the film leader into the groove and engage the second sprocket hole of the leader with the small hook inside the groove. Adjust the film so that the film sprocket holes fit the teeth of the Film Roller (37).

Pull the film cartridge to the recess directly beneath the Rewind Knob. Depress the Film Rewind Knob (23) again to lock the film cartridge in place. Be sure the dull (emulsion) side of the film faces the lens.

With your thumb on the knurled lower end of the Take-Up Spool (36), turn the spool clockwise half a turn until the film is taut. (Be sure the index line of the Film Rewind Ring (2) points to the "A" position.)

The camera back will lock shut automatically when you close it. Next, wind film one turn* and press the shutter release Button (4). Repeat these actions once more. By doing this you will have cleared the two frames already exposed to light while you were loading. After this, you may use the Rapid Winder Mechanism (25).

The film dot on the Film Transport Indicator (6) will make one complete turn each time you advance the film one frame. You will know you have loaded correctly if the Rewind Knob turns in a counter-clockwise direction each time you cock the shutter mechanism.

*Rapid Wind—see P. 20; Manual Wind—see P. 21



The Film Frame Dial (3) on the Model V shows you the number of frames you have *not yet exposed*. It should be set at the number corresponding to the number of exposures possible on the film you have just loaded (normally 20 or 36). To do this rotate the Film Frame Dial Setting Wheel (30) until the correct number appears on the dial. Note that only even numbers are engraved. Intermediate dots represent the odd numbers.

Thereafter the Dial will operate automatically until the last picture has been exposed.



Film Type Indicator

As a reminder, set the Film Type Indicator (28) to the ASA speed of the film you are using, and to show whether you are using black-and-white or color. (Blue dot can indicate daylight, red can indicate tungsten.)

This indicator is adjusted by twisting the top of the Film Winding Knob (1) with your finger.

Setting Shutter Speed

This may be done before or after cocking shutter. There are two speed dials on the Canon V. The High Speed Dial (9) is for shutter speeds of 1/30, 1/60, 1/125, 1/250, 1/500 and 1/1000 of a second. Also "B" (Bulb) and "X" (electronic flash contact). The Slow Speed Dial (10) is for shutter speeds of 1/30, 1/15, 1/8, 1/4, 1/2, 1 second, plus "T" (Time Exposure).

High Speed Dial

Raise the dial with your thumb and index finger and rotate it until the required speed is opposite the center index line; release the dial which will drop into the correct setting. (Note that in the case of 1/1000 sec. the dial drops only half way back). Be sure that the Slow Shutter Speed Dial is set at 1/30 sec. when using high speeds.



Slow Speed Dial

Set the High Shutter Speed Dial to 1/30 sec. Rotate the Slow Shutter Speed Dial until the speed you want is on top, opposite the indicator line.

To take a picture at 1/30 sec. both Speed Dials should be set at 1/30 sec.

Exposures Longer Than 1 Second

Set the High Shutter Speed Dial to "B" and Slow Shutter Speed Dial to 1/30. The shutter will remain open from the time you press the Shutter Release Button (4) until you release it again.

For "Time," set the High Shutter Speed Dial at 1/30 sec. and the Slow Shutter Speed Dial to "T". The Shutter will open when you press the Shutter Release Button. You do not have to maintain pressure on the Shutter Release Button. To close the shutter, turn the Slow Shutter Speed Dial to 1 sec.



When Shutter
is Cocked



When Shutter
is Not Cocked

SETTING LENS APERTURE (F: STOP)

Set the Lens Aperture Scale (17) by turning the milled ring at the end of your lens until the required f:stop is opposite the index dot.

For correct aperture opening, consult an exposure data card or use a reliable exposure meter.

The following table shows the relation between aperture value and exposure time.

Lens aperture	1.2	1.5	1.8	2.0	2.8	(3.5)	4.0	5.6	8.0	11	16
Relative exposure time	.36	.56	.8	1	2	(3)	4	8	16	32	64



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On the Canon Model V, focusing and composing can be done at the same time. When you look through the Range-Viewfinder Eyepiece (13), you will see two images. By releasing the Lens Focusing Lever (11) and rotating the lens barrel, the two images of the object you are focusing upon will coincide. At this point of coincidence your camera is in focus for the object you are about to photograph. For a larger image on which to focus, use Viewfinder Dial (16) set at "RF". (see page 17)

Note that on some Canon Lenses, there is no Lens Focusing Lever (the knurled lens barrel is gripped for focusing) but all Canon Lenses couple with the camera Range-Viewfinder mechanism.



Out of focus



In correct focus

FOCUSING & COMPOSING

The Depth-of-Field Scale (21) shows you the range of objects which will also be in focus on the film. This range will vary with the f:stop you have chosen. The larger the lens aperture, the smaller will be your depth of focus. For example: with an f:stop of f:4 and with the object you have focused on at 25 ft. (*) your camera will give you a sharp focus picture from approximately 18 feet away from the camera to 40 feet. At f:11 you will get a sharp picture from 12 feet to infinity (∞).

*(Illustration shows 25 ft. on Lens Distance Scale (19) opposite Lens Distance Scale Index Mark.)





Adjustment of the Viewfinder Dial (15) is made by turning the Viewfinder Selector (16).



Position "35" shows you the view which any Canon 35mm lens will record.

Position "50" gives you what any Canon 50mm lens will record.

You can focus the Rangefinder at any of the three positions.

VIEWFINDER DIAL & SELECTOR

For long focal length lenses (i.e. greater than 50mm) or when a larger image is desired for focusing, set the selector at "RF". For lenses other than 35mm and 50mm an accessory Viewfinder is necessary to give you correct composition. Alternatively, a Canon Zoom Finder or Erect Image Finder may be used. In all cases, the Automatic Parallax Adjustment Pin (27) built into the Accessory Clip (22) will elevate or depress the viewer to correspond to the focus of your lens from 3.5 feet to infinity.

For 50mm	For 35mm	85mm or more
		



On the Lens Depth of Field Scale (21) of some Canon Lenses is the letter "R". This is for infrared film. When using this type of film, focus in the normal way. Read off the distance of the object you are photographing as shown opposite the Distance Indicator Mark on the Lens Distance Scale (19). Turn the lens barrel until the distance read off is opposite the "R" mark. Your lens is now focused for infrared photography.

Be sure you always use a proper filter for infrared photography.

Film Plane Mark (20)

This line gives you the exact position of the film plane in your camera. This information is needed for very accurate close-distance photography where a measure is used.

INFRARED PHOTOGRAPHY

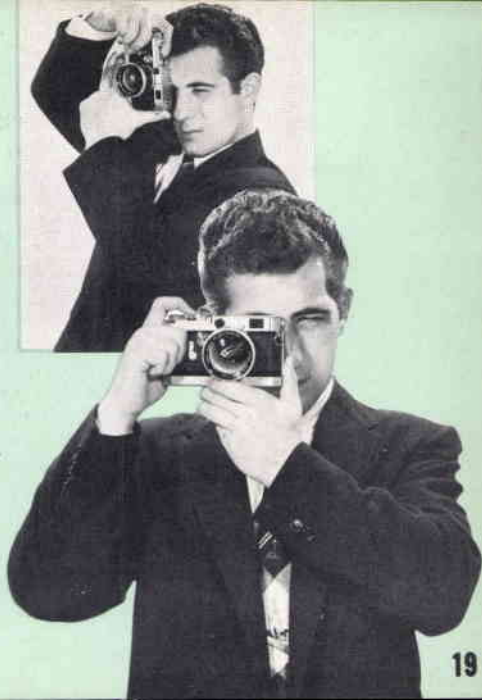
You have now completed the following steps:

1. Wound your shutter, ready for your first exposure
2. Set both speed dials
3. Adjusted the Lens Aperture Dial
4. Focused your lens
5. Composed your picture through the correct Viewfinder setting

You are now ready to expose your picture. Hold the camera in a vertical or horizontal position, firmly but gently. The camera should be cradled in both palms and the index finger of your right hand should rest over the Shutter Release Button. Check your breath and press the Shutter Release Button in a smooth steady action. Do not jerk the camera.

For exposures longer than $1/15$ sec. you should use a tripod or Canon Wrist Strap to eliminate movement.

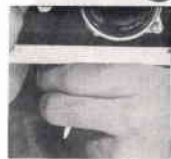
EXPOSING



The Canon V features the fastest built-in Rapid Wind mechanism which winds the film to the next exposure and which also recocks the shutter. At the same time it advances the Film Frame Dial to the next number.

Pull out the Rapid Wind Trigger (25) from its bed in the camera base plate and extend it to a vertical position. Pull the trigger the full length of its run. The trigger will automatically return to its original vertical position when released.

A Canon Rapid Wind Pistol Grip (35) (with wrist strap) is available as an accessory. The Model V leather case permits the use of both Trigger and Pistol Grip while the camera is still in the case. There is an ASA size tripod screw hole at the bottom of the Pistol Grip.

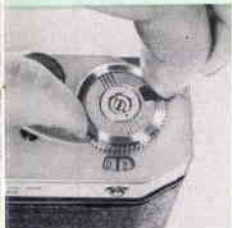


For copying stand work, etc. the Manual Film Winding Knob (1) is used instead of the Rapid Wind mechanism.

Align the three engraved black dots on the top of the Manual Film Winding Knob and raise this Knob to facilitate control.

Turn the knob clockwise until it locks into position. Your film has then been advanced one frame, the shutter has been rewound and the Film Frame Dial set to the next number. Keep the Rapid Wind Trigger in its bed.

Before using the Rapid Wind Mechanism again, be sure to return the Manual Film Winding Knob back into its lowered position, by first depressing the Manual Film Winding Knob Release Button (29).





An accidental Double Exposure is impossible on the Canon V. For deliberate Double Exposures, the following procedure should be adopted:

1. Turn the Film Rewind Ring (2) from its normal "A" position to the Film Rewind Mark (▲).
2. Rotate High Shutter Speed Dial counter-clockwise, without lifting dial until you hear a click and the Dial will turn no further.
3. Hold the High Shutter Speed Dial, fully wound, with your left hand. At the same time, turn the Film Rewind Ring back to the "A" position with your right hand.
4. You may now reset either Speed Dial to any required position.

DOUBLE EXPOSURE PROCEDURE

UNLOADING

1. Turn the Film Rewind Ring (2) from "A" to the Film Rewind Mark (▲).

2. Slide the Rewind Knob Release Lever (24) in the direction shown by the arrow. The Film Rewind Knob (23) will then jump

up into position. Pull it out to its fullest extent.

3. Turn the Film Rewind Knob in a clockwise direction until all the film has been wound back into its original cartridge. Tension on the Film Rewind Knob will cease as soon as this has been done and the Film Transport Indicator (6) will also stop rotating. As long as Film Transport Indicator rotates clockwise, film is being rewound in the camera. One complete turn indicates one frame rewind.

4. The camera back may now be opened and the film cartridge removed.



FLASH PHOTOGRAPH

Set the Flash Synchronization Lever to show **FP** for:

FP (Focal Plane) Bulbs for all speeds from 1/1000–1 sec.

M Bulbs for speeds from 1/250–1 sec.

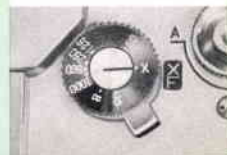
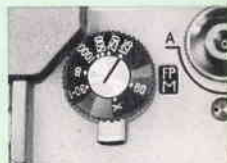
Set the Flash Synchronization Lever to show **XF** for:

F Bulbs for speeds from 1/30–1 sec.

Electronic Flash (shutter speed 1/50 sec.)

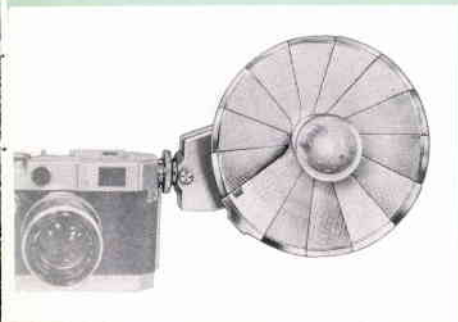
NOTE:

1. For Electronic Flash, turn High Shutter Speed Dial, as shown, to "X." Slow Shutter Speed Dial should be set at 1/30 sec.
2. When using "F" type bulbs, be sure high shutter speed is at 1/30-1.



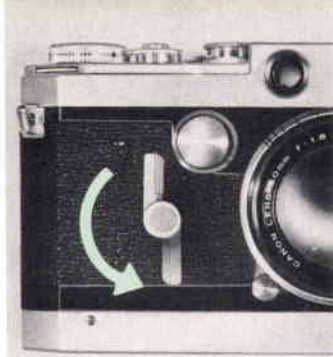
Electrical contact is made for flash bulbs when the Canon Flash Unit Model V is attached to the Flash Unit Connector Socket (31). No external wiring is necessary and all synchronization is done automatically in the camera itself.

To connect an electronic flash unit use a standard Prontor-type connecting tip.



A built-in Self Timer (26) is incorporated in the Model V camera. When you are ready to take your picture, turn the Self Timer Lever counter-clockwise until it turns no further. This can be done before or after cocking the shutter. The timing device will begin working as soon as you release the lever. (You will hear a buzz.) The shutter will be actuated approximately 10 seconds later. Note: Once you have cocked the Self Timer it cannot be released until the shutter has moved.

It is highly recommended when taking Self Timer pictures, that you use a Canon Cable Release and Camera Holder with a sturdy tripod.



All Canon Cameras and Lenses feature standard flanges and threads. The screw-in lens mount has been proven the most accurate and durable, with the greatest area of lens-to-camera contact of any type of camera connection.

To change your lens, place the Lens Cap over the top of the lens. Grip the lens barrel at its base and apply gentle pressure until the lens is loose. Continue turning until the lens is completely unscrewed. Be sure that the camera (when loaded with film) is in shade and be sure to cover the lens base with a Dust Cap as soon as possible. Any Canon Lens will couple with the Model V camera.

To replace lens, keep Lens Cap on the lens but remove Base Cap. Turn the lens first in a counter-clockwise direction for half a turn. This makes sure that the lens threads and the camera mount flanges do not cross. Next, turn in a clockwise direction until the lens is securely in place. Do not force the lens any further.

Always tighten a lens by its base, not by the top. If the lens has a Lens Focusing Lever (11) be sure this is in the locked (∞) position.

Note: When mounting or removing any lens of 85mm or greater focal length, be certain you have lens set at nearest footage setting to protect camera, range-finder and actuating mechanism.



CHANGING LENSES

Depth of Field Table

for Canon 35mm f:1.8, f:2.8

In Feet

Minimum Circle of Confusion: 0.035mm

Distance focused on (ft)	Depth of Field Table																	
	f:1.8		f:2		f:2.8		f:4		f:5.6		f:8		f:11		f:16		f:22	
	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
∞	67	∞	59-3 1/2	∞	43-	∞	29-9 1/4	∞	21-3 3/8	∞	15-	∞	10-11 1/4	∞	7-7 3/8	∞	5-7 1/2	∞
50	28-7 3/8	198-0	27-2 1/8	∞	23-	∞	18-8 1/4	∞	14-11 1/4	∞	11-6 3/8	∞	8-11 1/4	∞	6-6 3/8	∞	4-11 1/4	∞
25	18-2 1/2	39-10 3/8	17-7 3/8	42-11 3/8	15-9 1/2	60-	13-7 3/8	154-	11-7 1/4	∞	9-4 3/8	∞	7-7 3/8	∞	5-9 3/8	∞	4-6 3/8	∞
15	12-3 1/8	19-3 3/8	11-11 3/8	19-11 3/8	11-2	23-1/4	10-1/2	29-10 3/8	8-10 3/8	49-9	7-6 3/8	∞	6-4 3/8	∞	5-7 3/8	∞	4-1	∞
10	8-8 1/2	11-8 3/8	8-7 1/8	11-11 1/2	8-1 1/8	12-11 3/8	7-6 1/2	14-10 3/8	6-10 1/2	18-6 3/8	6-3 1/4	29-4	5-3 1/2	110-	4-4 3/8	∞	3-7 1/2	∞
8	7-1 1/8	9-0 3/8	7-1	9-2 3/8	6-9 1/4	9-5 3/8	6-4 1/4	10-9 3/8	5-10 1/2	12-7 1/8	5-3 3/8	16-9	4-8 1/4	28-7 1/2	3-11 1/2	∞	3-4	∞
6	5-6 1/8	6-7	5-5 3/8	6-7 3/8	5-3 1/2	6-11 1/8	5-1/2	7-5 1/8	4-8 3/8	8-2 3/8	4-4 1/8	9-9 1/2	3-11 1/8	12-10	3-5	27-1 1/4	2-11 3/8	∞
5	4-7 1/8	5-4 3/8	4-7 3/8	5-5 1/8	4-6 1/8	5-7 1/2	4-3 3/8	5-11 1/4	4-1 1/8	5-5 1/8	3-9 3/8	7-4	3-8	8-10 3/8	3-1	13-10 3/8	2-8 3/8	43-8 1/2
4	3-9 3/8	4-3	3-9 3/8	4-3 1/4	3-8 1/8	4-4 3/8	3-6 3/8	4-6 3/8	3-5	4-10 1/8	3-1 3/8	5-4	2-11 1/8	6-1 1/8	2-9 1/4	8-1/2	2-4 3/8	13-1 3/8
3.5	3-4	3-8 1/4	3-3 3/8	3-8 3/8	3-3 1/8	3-9 3/8	3-2	3-11	3-3 3/8	4-1 1/2	2-10 3/8	4-5 1/2	2-8 1/2	4-11 3/8	2-9 1/2	6-2 1/4	2-2 3/8	8-9 1/8

Depth of Field Table

for Canon 50mm f:1.2, f:1.5, f:1.8, f:2.8

In Feet

Minimum Circle of Confusion: 0.035mm

Distance focused on (ft)	Depth of Field Table																											
	f:1.2		f:1.5		f:1.8		f:2.0		f:2.5		f:3.0		f:3.6		f:4.5		f:5.6		f:7.2		f:9.0		f:11		f:13		f:16	
	11:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30	10:30
∞	100-	∞	170-	∞	117- 90%	∞	130-	∞	150-	∞	80-	∞	65-	∞	44- 0	∞	33- 0	∞	25- 0	∞	21- 4	∞	20- 10	∞	18- 9	∞	21- 4	∞
80	80- 8	65- 9	38- 1	66- 9	26- 7	75- 2%	26- 10%	37- 10	36- 4	80-	55- 10	63-	32- 2	110-	27- 11	245-	33- 8	∞	18- 8	∞	16- 8	∞	16- 8	∞	13- 1	∞	9- 3	∞
25	22- 8	28- 3	21- 11	29- 1	31- 8%	28- 3%	21- 2	39- 8%	21- 1	30- 8	28- 11	21- 1	18- 7	38- 8	18-	41- 3	38- 2	38-	18-	119-	12- 1	∞	9- 8	∞	5- 10	∞		
15	18- 0	16- 2	13- 10	16- 4	13- 8%	18- 3%	13- 7	18- 9%	13- 8	16- 10	13- 8	16- 11	12- 11	17- 11	13- 2	29- 7	11- 9	22- 1	12- 2	38- 3	8- 0	42- 1	7- 10	147-	8- 8	∞		
10	9- 4%	10- 4	9- 10%	10- 7	9- 9%	10- 7%	9- 4%	10- 8%	9- 4	10- 8	9- 10%	10- 10	9- 10	11- 3	8- 8	11- 10	8- 2	12- 0	7- 8	14- 5	7- 7	17- 6	6- 5	26-	9- 4%	10- 11%		
8	7- 8%	8- 3%	7- 8	8- 8%	7- 7%	8- 4%	7- 7	8- 9%	7- 4%	8- 10%	7- 8%	8- 10%	7- 8%	8- 9%	7- 1%	9- 1	9- 10%	8- 7%	8- 10%	10- 7	6- 1%	17-	5- 5	15- 7	8- 8%	25- 9%		
6	5- 10	6- 2%	5- 9%	6- 2%	5- 9%	6- 2%	5- 9%	6- 3	6- 8%	6- 1%	6- 2%	6- 7%	6- 4%	6- 10%	6- 7	5- 8%	6- 10%	5- 1%	7- 1%	8- 10	5- 11%	4- 3%	5- 4	5- 11%	12- 8%			
5	4- 10%	5- 1%	4- 10%	5- 1%	4- 10%	5- 1%	4- 10%	5- 2	4- 10	5- 2%	4- 9%	5- 2%	4- 10%	5- 2%	4- 8	5- 4%	4- 10%	5- 1%	4- 4%	5- 10%	4- 2%	5- 11%	4- 3%	5- 11%	10- 8%			
4	3- 11%	4- 1	3- 11	4- 1	3- 11	4- 1	3- 10%	4- 2%	3- 10%	4- 1%	3- 10%	4- 1%	3- 11%	4- 2	3- 9%	4- 2%	3- 8%	4- 4%	3- 7%	4- 10%	4- 3%	5- 2%	5- 2%	5- 11%	9- 10%			
3.5	2- 5%	3- 1%	2- 5%	3- 1%	2- 5%	3- 1%	2- 5%	3- 5	3- 5	3- 5	3- 5	3- 5	3- 6%	3- 4	3- 8%	3- 3%	3- 2%	3- 2%	3- 10%	3- 1%	4- 1%	3- 11%	4- 4%	3- 8%	8- 11%			

CARE OF YOUR



DO

DO read this instruction book carefully.

DO consult your dealer if you have any problem about using your Camera or Lenses.

DO keep the Lens Cap on at all times except when you are actually going to take a picture. Your Canon Lens is the fastest production lens available. If exposed to direct light it may burn a hole in your shutter curtain in a second.

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DON'T keep your camera in the glove compartment of your car where it will be subject to shaking, vibration, heat, dust, etc.

DON'T keep your camera in a damp room or where corrosive fumes exist.

DON'T clean your Canon Lens with anything but special lens tissue, with possibly a little pure alcohol or ether, if available. Wrap tissue around a wooden matchstick and wipe in a circular motion, lightly and systematically.



DON'T



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