

Minolta 'A'

35mm CAMERA



CHIYODA KOGAKU SEIKO K. K. OSAKA, JAPAN

INSTRUCTIONS
FOR USING

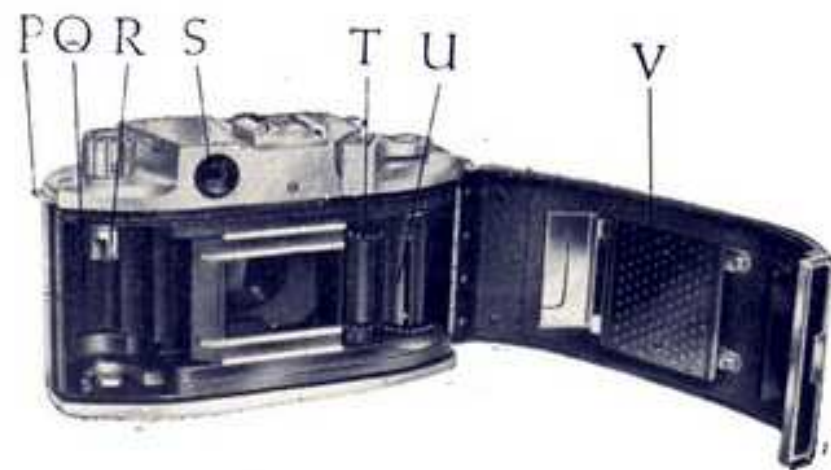
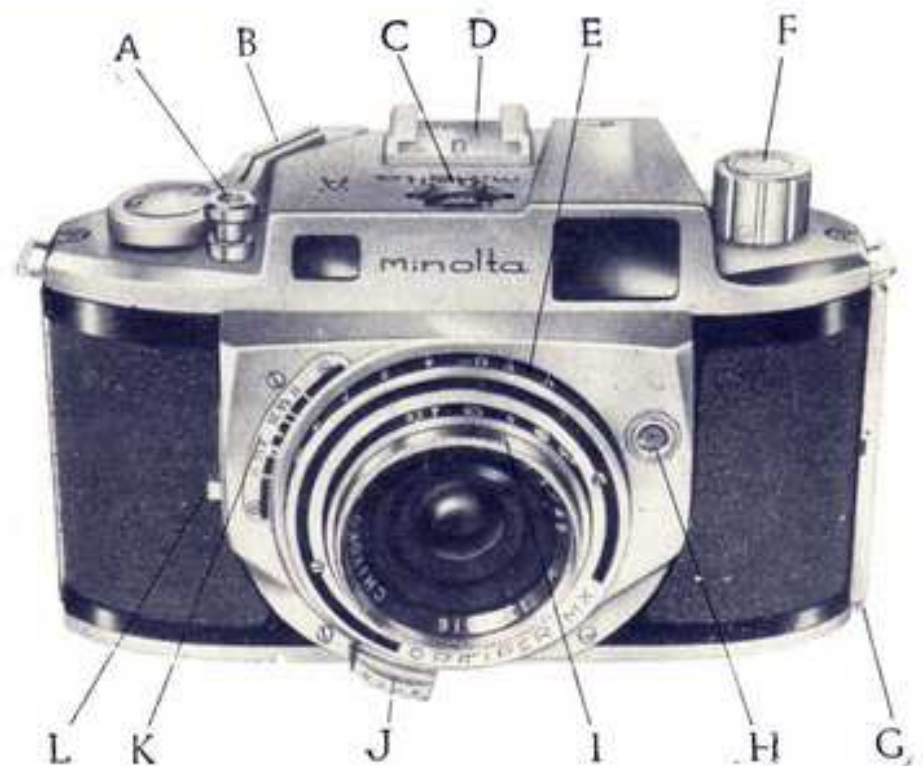
The MINOLTA 'A'

A precision, professional quality 35 mm camera in every respect, ruggedly built to withstand years of hard usage. It is housed in a lightweight, precision-diecast, aluminum alloy body. Designed for fast sequence shooting, the single thumb-stroke film advance lever cocks the shutter in the same operation and prevents double exposures. A knurled, index-finger-actuated cam and helical focusing threads provide smooth, fast-action focusing. The coupled, superimposed-image rangefinder provides a brilliant, square-shaped, pink colored image in the center of the viewfinder. This provides focusing and composing for the picture in the same operation.

The fast, Rokkor f 3.5-45 mm four-element lens has glass-air surfaces hard-coated and is equipped with a click-stop diaphragm. Diaphragm-stop numbers are equally spaced on the dial making proportional stops easy to select.

The smooth acting Optiper MX shutter provides fast acting vibrationless operation at speeds from 1 to 1/300 second and bulb. It is synchronized for both flash bulbs and strobe-light and has a standard type connection so that any flash gun may be used. An accessory shoe on top of the camera takes all slide-in types of accessories.

It makes 36 standard size pictures from the standard 35 mm film cartridge. The hinged back provides easy loading and an automatic film counter shows the number of frames exposed.

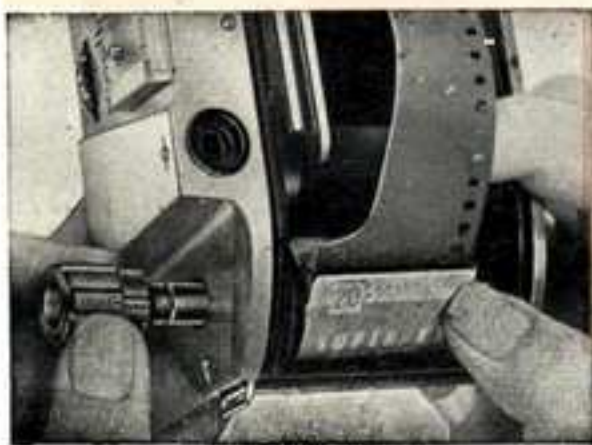


- A. Shutter Release Button.
- B. Film Advance and Shutter-Cock Lever.
- C. Shutter Speed Dial.
- D. Accessory Shoe.
- E. Distance Scale.
- F. Rewind Knob.
- G. Back Locking Tab.

- H. Flash Synchronizer Connection.
- I. Click-stop Diaphragm Setting Ring. (Diaphragm Stop Scale on top of lens barrel).
- J. Focusing Lever.
- K. Depth-of-Field Scale.
- L. Synchro Selector.

- M. Film Counter Dial and Knurled Setting Screw.
- N. Rewind (Sprocket) Release Button.
- O. Tripod Mount.
- P. Neck Strap Attachment.

- Q. Film Cartridge Chamber.
- R. Rewind Shaft.
- S. Rangefinder-Viewfinder Window.
- T. Film Winding Sprocket.
- U. Film Winding Spool.
- V. Pressure plate.



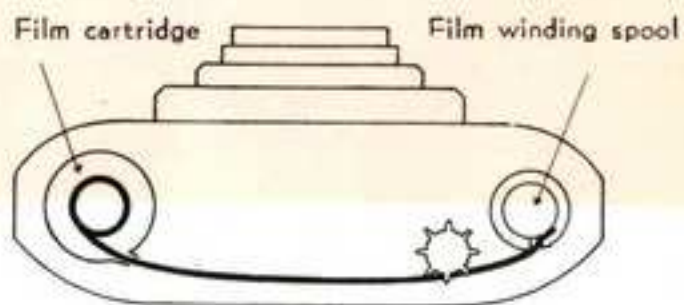
HOW TO USE

To Load Film

1. Pull out the Back Locking Tab (G), open the camera back.

2. Pull the Rewind Knob (F) out as far as it will go and place a film cartridge in the Chamber (Q). Note that the spool on one end of the cartridge protrudes much further than on the other end. This protruding end must be pointing towards the bottom plate of the camera.

3. Insert the end of the film into the groove of the Film Winding Spool (U). It is necessary

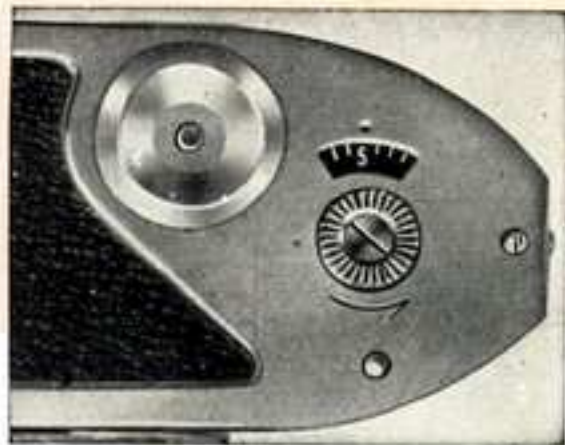


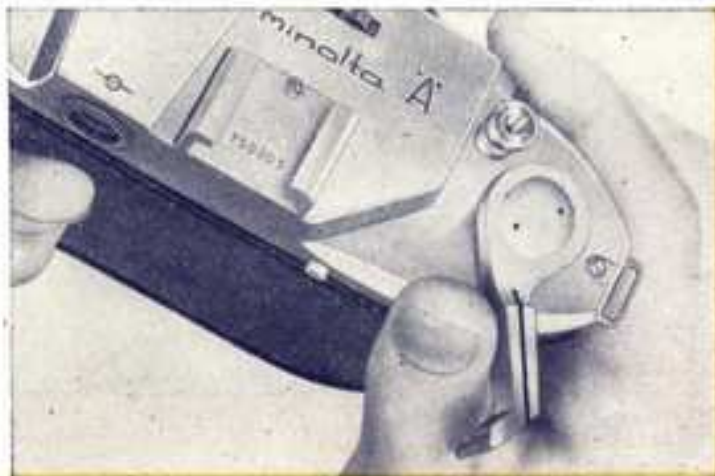
THE MINOLTA 'A'

to insure that the film is caught between the inner and outer flanges of the Film Winding Spool, as illustrated.

4. Turn the Winding Spool by means of the knurled edge to take up the slack on the film. Move the Film Advance Lever (B) a few short strokes to be sure that the perforations in the film mesh with the teeth of the Film Winding Sprocket (T). If they do, close the back cover, then it will be automatically locked.

5. Turn the Film Advance Lever as far as it will go and release the shutter. Repeat this three times. Then set the Film Counter Dial (M) to zero by turning the Knurled Screw with your finger. The counter will then automatically indicate the number of exposures made.





To Take Pictures

1. Set the Diaphragm Scale (I) to the proper number as indicated by your exposure meter or exposure guide. This is done by turning the diaphragm ring until the red dot clicks into position opposite the proper f stop.

2. Set the Shutter Speed Dial (C) to the proper shutter speed, again in accordance with your exposure meter reading.

3. Move the Film Advance Lever to your right until it stops. This can be done in one long stroke or several short ones. This moves the film to the next exposure and also cocks the shutter.

4. While sighting through the Viewfinder (S) turn the lens barrel by means of the Focusing Lever (J) until the pink image in the center of the viewfinder is exactly superimposed over the full image. (illustration 2) The letter "R" of Depth of Field Scale (K) is the mark for use of an infrared film and in such a case just slip it to the position of R from the point ▲, then the position of distance is rightly focused.

5. Keeping the camera as steady as you can, press the shutter release (A) firmly but smoothly to trip the shutter.

CAUTION: Do not wind the film advance lever until the shutter has finished its operation. This is particularly important at slow shutter speeds.

6. To set the camera at a fixed focus position set the red dot on the diaphragm ring to number "11" on the Diaphragm Scale. Then set the camera so that the



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number "15" on the Distance Scale is opposite the arrow on the Depth of Field Scale. Now everything from 8 ft. to infinity will be in focus. (illustration 3)

7. After finishing all the shots, rewind the film in the film cartridge.

Push in the Rewind Release Button (N). You will note that the button remains in the "pushed in" position. Raise the Rewind Knob (F) slightly until it catches (do not pull it out all the way), then wind it in the arrow marked direction. When the film is detached from the film winding spool you may suddenly feel it much lighter. Give two or three more turns and it should be completely wound to the film cartridge.

Note: Should the Rewind Release Button inadvertently pop out while rewinding, move the Film Winding Lever a little, then push the button in again and continue as before.

For Flash Operation

Your Minolta A is internally synchronized for use with electronic flash or with flash bulbs at all shutter speeds. However, the proper setting must first be made.

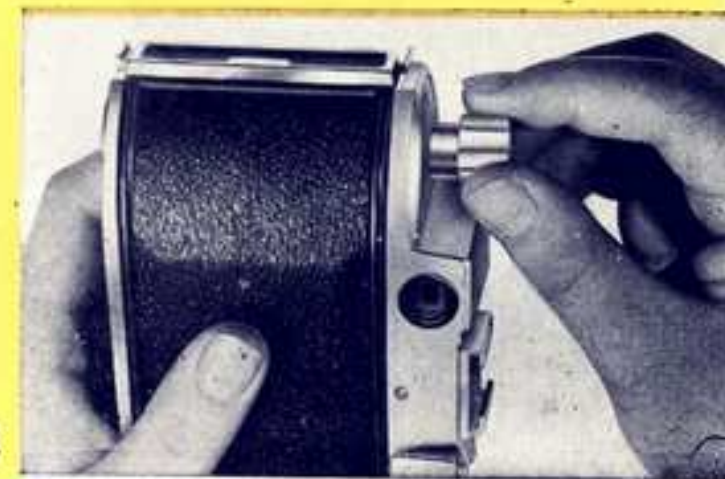
1. For electronic flash use, set the lever (L) at "X".

Note: On this setting, class F (gas filled) flash bulbs can also be used at the shutter speed of 1/50 sec. or slower.

2. For class M (foil filled) flash bulbs, set the lever (L) at "X".



3










4



Relative Diaphragm Openings to Shutter Speeds

The Diaphragm Opening of a Lens controls the volume of Light that reaches the film in a given period of exposure. The Dial Markings indicate this volume of Light (see the diagram). Each Stop opening indicated on the dial by the numbers 4 to 22 reduces the amount of light passing through the lens by 1/2, or conversely, opening the lens from one mark to the next from the number 22 to 4 doubles the amount of light. The shutter controls the amount of light by the length of time it remains open i. e. 1 second, 1/2 second, 1/5 sec. etc. Now, suppose you have determined by an exposure meter reading or other means that the correct exposure for your film under certain light conditions is 1/50 second at f8, and you want to use a faster shutter speed because your subject is in motion. A shutter speed of 1/100 second cut the exposure in half, so you must open the lens one stop to f5.6 which will allow twice as much light to pass through and the amount of exposure will be the same as before.

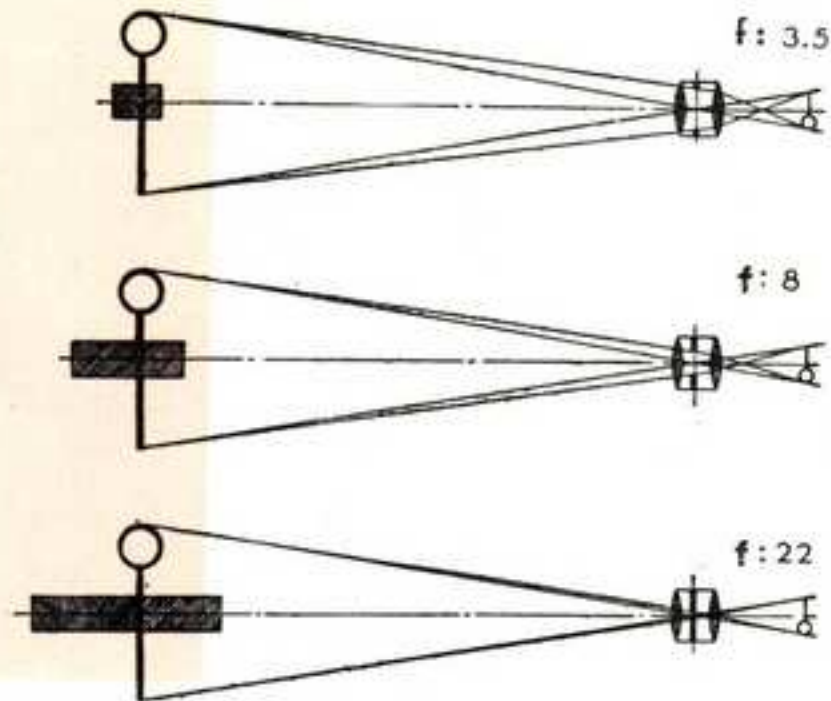
Conversely, if you need to stop down the lens for greater depth-of-field (see explanation of Depth-of-Field next), and you select 16 as the correct stop opening you have reduced the amount of light to 1/4. Then you must give the film an exposure 4 times as long or 1/12 second, in this case you select the nearest shutter speed which is 1/10 second.

Diaphragm	3.5	4	5.6	8	11	16	22
Volume of light							
	1.3	1	1/2	1/4	1/8	1/16	1/32

— 8 —

Depth-of-Field

The depth-of-field of a lens is the range of distance within which all subjects are in relatively sharp focus when the lens is set for a given distance. This range varies with the diaphragm opening, being greatest when the lens is stopped down and least when it is open full (see diagram). The range also varies with the distance for which the lens is set being least at close distances and greatest at farther distances up to a point where it takes in everything beyond an intermediate distance to infinity, which is indicated by ∞ on the distance scale, i. e. when the camera is set at ∞ and the lens is opened to f5.6 the depth-of-field is from 36 ft to infinity.



ACCESSORIES FOR THE MINOLTA 'A'

The following exclusive accessories are available for the Minolta 'A' and are recommended in order to obtain the very best results with it.

Minolta Filters

Filters will enable you to take better and more elaborate pictures than is possible without them.

List of Filters and Their Uses

Minolta Filter		Use
UV	Ultra Violet	To cut through haze and correct color film.
Y 44	Very light yellow	For outdoor subjects and distant views generally.
Y 45	Light yellow	To darken light skies so that clouds are accentuated. Also for seascapes, snowscapes and other bright subjects.
Y 46		
Y 47		
Y 48	Medium yellow	
Y 49	Dark yellow	Deepens contrast between sky and clouds more than smaller numbered filters.
Y 50		
O 53	Light yellowish red	For special effects. Red and yellow appear abnormally bright while water looks dull. Called contrast filter.
O 54	Medium yellowish red	
O 55	Dark yellowish red	
R 59	Red	Intensify blue so that distant mountains appear clear. Used for infrared photographs in combination with infrared film. Turns sun into moonlight effect.
R 60	Dark red	
G 0	Yellowish green	Color corrects panchromatic film so that green becomes lighter and brighter. For foliage, grass etc.

Minolta 'A' Lens Shade - Round Shaped.

A lens shade should be used to prevent unnecessary and stray light from entering the lens, which will cause glare spots on the picture, and is especially essential in synchro-flash work.

Minolta Self - timer

Can delay the shutter action to allow the camera operator to get into the picture. It is designed for screwing directly into the shutter release button of the camera.

Minolta Auto-up Lens

Available for taking closer objects within a range of 19 to 40 inches.

After attaching it to the camera, you can take a close up photograph by simply focusing through the rangefinder in the usual way.

Minolta Junior B. C. Flash

A small pocket-sized unit which operates on the B. C. principle. A 22.5V dry battery and a condenser (capacitor) can discharge more than 300 flashbulbs without changing the battery. The folding shade consists of 13 fan-shaped blades. The body of the flash gun is plastic and the folded reflector in its vinyl case fits any pocket or purse.



AVERAGE EXPOSURE TABLE

Season: Spring or Autumn.		Weather: Bright Sun		Iris Stop: f8		Film Used: ASA 100	
SUBJECT	TIME	6·6	7·5	8·4	9·3	10·2	11—1
Sea Shores, High Mountain		1/75	1/100	1/200	1/500	1/1000	1/1000
Distant Landscape		1/75	1/100	1/200	1/500	1/1000	1/1000
Ordinary Landscape		1/10	1/15	1/50	1/100	1/200	1/300
Bright Street Scene		1/10	1/15	1/50	1/100	1/200	1/200
Near Landscape		1/5	1/10	1/25	1/50	1/100	1/100
Portrait, Under Direct Sun		1/5	1/10	1/25	1/50	1/100	1/100
Dark Landscape, Shaded Portrait		1	1/2	1/5	1/10	1/25	1/25
Bright Inner Room, Portrait by Window		2	1	1/2	1/5	1/10	1/10

REMARKS: Left hand figures in the heading of the time columns denote morning, while the right hand ones mean afternoon.

Times of exposure, other than mentioned above, should be briefly as follows:
Double the above under bright clouds and in winter. Half the above in summer.

Exposure can also be regulated by changing the Iris Diaphragm stops according to the following ratio:

"f" Stop:	3.5	4	5.6	(8)	11	16	22
Ratio of Increase in Exposure:	5	4	2	1	1/2	1/4	1/8 times

EMULSION SPEED VALUES

ASA	Weston	Din	Ratio
5	4	9	1/10
6	5	10	1/8
8	6	11	1/6.25
10	8	12	1/5
12	10	13	1/4
16	12	14	1/3
20	16	15	1/2.5
25	20	16	1/2
32	25	17	2/3
40	32	18	4/5
50	40	19	1
64	50	20	1 1/3
80	64	21	1 2/3
100	80	22	2
125	100	23	2 1/2
160	125	24	3
200	160	25	4
250	200	26	5

SERIAL NO. ~~MAI~~

26497

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CHIYODA KOGAKU SEIKO K. K.

IMPORTANT: TO VALIDATE YOUR CAMERA GUARANTEE PLEASE BE SURE TO FILL IN, DETACH AND MAIL THIS REGISTRY CERTIFICATE TO CHIYODA KOGAKU SEIKO K. K. IN THE ACCOMPANYING SELF-ADDRESSED POST-PAID ENVELOPE.

**MINOLTA CAMERA
REGISTRY CERTIFICATE**

I HAVE PURCHASED THE MINOLTA CAMERA DESCRIBED BELOW AND DESIRE TO HAVE IT REGISTERED IN ACCORDANCE WITH YOUR GUARANTEE CERTIFICATE BEARING THE ABOVE NUMBER.

NAME _____

ADDRESS _____

CITY _____ STATE _____

AMATEUR _____ PROFESSIONAL _____

MINOLTA CAMERA DESCRIPTION

NAME AND MODEL OF CAMERA MINOLTA 'A'

SERIAL NUMBER OF CAMERA 327136

LENS TYPE _____ SERIAL NO. 1108276

PURCHASE INFORMATION

DATE OF PURCHASE _____

DEALER'S NAME _____

DEALER'S ADDRESS _____

CITY _____ STATE _____

CHIYODA KOGAKU SEIKO K. K.

MANUFACTURERS OF PRECISION PHOTOGRAPHIC AND OPTICAL EQUIPMENT
c/o KANEMATSU NEW YORK INC.
150 BROADWAY
NEW YORK, 38, N. Y.

SERIAL NO. ~~MAI~~

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**MINOLTA CAMERA
GUARANTEE CERTIFICATE**

THIS MINOLTA CAMERA IS GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE BY CHIYODA KOGAKU SEIKO K. K. AGAINST DEFECTS OF ANY KIND DUE TO WORKMANSHIP OR QUALITY OF MATERIALS USED IN ITS MANUFACTURE.

THIS GUARANTEE BECOMES VALID ONLY AFTER THE REGISTRY CERTIFICATE ATTACHED IS DULY FILLED OUT AND RETURNED WITHIN FIFTEEN DAYS FROM THE DATE OF PURCHASE.

WE WILL BE PLEASED TO FURNISH YOU WITH ANY FURTHER INFORMATION YOU MAY REQUIRE ABOUT YOUR CAMERA AND, IF EVER NECESSARY, WE WILL PROPERLY CHECK, ADJUST OR OTHERWISE SERVICE YOUR MINOLTA CAMERA.

CHIYODA KOGAKU SEIKO K. K.

MANUFACTURERS OF PRECISION PHOTOGRAPHIC AND OPTICAL EQUIPMENT
c/o KANEMATSU NEW YORK, INC.
150 BROADWAY
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MINOLTA CAMERA SERVICE STATIONS

MINOLTA CAMERA	150 Broadway, New York 38, N. Y.
THE FR CORP.	951 Brook Ave., New York 51, N. Y.
INTERNATIONAL CAMERA CORP.	846 West Adams Street, Chicago 7, Ill.
PACIFIC PHOTO PRODUCTS	3210 W. Olympic Blvd., Los Angeles 6, Calif.
LINDAHL, S. O., PHOTO SALES INC.	1637 Court Pl., Denver 2, Cold.
HABERSIN CAMERA SHOPS, INC.	6800 Biscayne Boulevard, Miami, Florida.
MOVIE SUPPLY OF HAWAII, LTD.	1354 Kapiolani Blvd., Honolulu 10, Hawaii.

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 - Popular Photography
 - Modern Photography
 - U. S. Camera
 - Holiday
 - Life
 - Newspaper
- B) Dealer
- C) Friend
- D) Professional Photographer
- E) Other
 - If other, please describe in detail.

Your Occupation :

Your Age :