

# TARON auto-EL INSTRUCTIONS

### INTRODUCTION

Your Camera is precision engineered and embodies the latest technical developments in camera design with the CdS Meter coupled to the disphragm and shutter. Your Camera determines optimum combinations of shutter speed and F-stop, and adjusts itself for correct announces instantly and automatically.

This super-speed 45mm F1.8 amber-coated lens gives you almost limitless picture opportunities indoors and out, and assures you of needlesharp and well contrasted pictures in either color or black and white.

The famous Citizen-VE shutter, newly designed, is fully synchronized for flash and electronic flash. Shutter speeds are from 1 sec. to 1/500 sec. plus B with a built-in-city there.

The coupled range-viewfinder with luminous frame gives you perfect and speedy picture composition.

A single stroke of the thumb-lever cocks shutter, advances film, counts exposure and prevents double-exposure simultaneously.

prevents double-exposure simultaneously.

These characteristics, plus many other outstanding features, make your Camera the ideal camera for both beginner and expert.

#### MAIN SPECIFICATIONS

Type: 35mm Lens shutter type FF Camera

Film size: 24mm×36mm

Lens: 45mm F1.8 6-element 4-component construction

Stutter CITIZEN-VE 8, 1, 2, 4, 8, 15, 30, 60, 125, 250, 500. Built-in Self-timer
Exposure Meter: Highly sensitive CdS Exposure Meter. Mercury battery used as power source.

EE mechanism: Fully coupled with Exposure Meter, shutter and lens aperture. Shutter priority
type FF. Manual aperture settings available.

Operating range of meter: EV 4-17

Film spred index: ASA 25, 64,100, 200, 400(500), DN 15, 19, 21, 24, 27.

Finder: Double-image super imposing system, coupled rangefinder, with parallax correction mark magnification of XX. Wisible aperture readings and warring signal in

Flash Synchronization: X flash synchronization-Speedlight, M class and F class of flash bulbs can be

Film loading: Revolutionary film loading with EL device using film in cartridge.

Film winding: Single operation 120° winding lever type.

Film rewind: Press rewind button and rewind with crank.

Other features: Both the lens and exposure meter are covered with one filter. There is no need.

for adjusting the exposure even when using filter. Comes complete with various

safety devices for preventing misuse.

# NAME OF PRINCIPAL PART

- (1) Neck-strap eyelets
  - Film advance lever Shutter release button
- (4) Cable relea
- (5) Film counter (6) Range finder window

- (7) CdS meter window
- (8) Light window (9) Accessory shoe
- (10) View-finder window (11) Film rewinding crank (12) Rear cover lock

- (13) Focusing ring
- (14) 45mm F1.8 lens
- (15) Synchro flash terminal (16) Iris diaphraem scale
- (16) Iris diaphragm scale (17) Shutter speed scale
- (18) ASA scale



The distance letteren the camera and the sobject can be automatically measured by measor of the cought organized range-vieriflores. But, besides the point at which it has been focused, there is a range of harpness which extends (in the foreground as well as to the background of the subject. This is called Tophtho-Frieds and all objects within a compilable sharpness. The behalf of facel, and to be a subject to the control of the control o

Fixed focus means keeping the lens previously focused at a distance which gives maximum depth-of-field so that there is no need to adjust the focus every time. This feature is most convenient for taking pictures of fast moving objects.

1	DEPTH-OF-FIELD	9.4 feet	7 feet	5.6 feet	3.8 feet (1.15 meter)
					TIEFENSCHAERFE
0	-	9.4***			3 A
5	1	7'**			
		5.6 '**			

## DEPTH OF DEID TABLE

	1.00	2.6	4	5.6	8		1.6
			3.29		3.011	2:98	2.79
				3.84		4:24	4,-68-
			3,73	3.63	13:49	3.34	3.10
	4.12	4:21	4.31	4.45	4 - 67.	4.89	57.62
	4.82	4.70	4.58	4.44	4.22	4.00	
	5.20	5.24		5.72	6.10	6: 66	7.83
			6,21	5.95	5.58	5.20	4.65
	7,40	7,68	8.01	8.50	9.37	10.73	
10	9.27	8.88	8.47	7.98	7.34	6.68	5.80
	10.89	11.45		13.38	-15.65	19.86	
			11.80	10.87	9.73	8.59	
		18.51		24.17	32.74	58.82	00
	24.07	21.75	19.46	17.06	14.40		9:47

Photo 5. Close the rear cover and "S" mark appears automatically on the film counter.

After taking two blank shots, advance the film ones more. The film counter not undicates "1". The ASA scale, which is the foremost ring on the lens barrel, should be set at the ASA speed of the film. This adjustment is the basis of perfect coupling with the light meter, Adjust the scale according to the speed of the film used.







Your Camera is a 35mm lens shutter type camera equipped with a coupled CdS light meter system. It is the result of original and ingenious skill which automatically solves all exposure problems.

Condinan	Broug of the Piles	ASA 100	A3A 50
4		1/250	1/25
Clouds		1/25	160
Indigers	PX	1	1





For EE operation, set the film speed on the ASA ring, align the red mark a on the aperture ring with the fixed index AUTO, select the shutter speed using the illustration at the left as a guide, cock the shutter by winding the lever, face the camera toward the object, and then the camera will automatically determine the F-stop lems-openine number) according to the light

Note: Unless you advance the film lever, the exposure meter will not work. Just release the shutter button and you will correctly expose, every picture. If 'and when the window within the viewfinder shows yellow, it is a warning signal indicating over or under exposure. Then, you should adjust by reducing the shutter speed to the property of the the property of the prope

or if it still indicates insufficient light, you should use flash.

conditions (

For manual operation, the aperture ring has to be turned to release the red mark from the fixed index AUTO. As described on another page, the self-timer is to be used also at AUTO setting.

F-stop visible in the viewfinder



The built-in light meter in your Camera works by means of Cadmium Sulphide Cells, which are considered to have excellent characteristics. The conventional selenium exposure meter generates electricity itself according to the strength of light passed through the window. The CdS light meter, however, is operated by variation of electric resistance using another source of electricity.

The CdS light meter of your Camera has a 1.3 volt mercury battery as its power source. Therefore, it is very sensitive and can even measure the light of a single match. Furthermore, the CdS light meter of your camera light window with an angle of 40

degrees, which is almost the same angle of acceptance as that of this F1.8 lens.

With your Camera you can measure from LV 4 (F18:1/4 sec) to LV 17 (F16:1/500 sec.)





Install the battery with the plus side out or facing you.

The mercury battery, and electric power source of the CdS light meter, is fit for very long use though it is very small. The voltage remains almost unchanged during its life span. Therefore, its operation is mite stable.

Your Camera has a mercury battery compartment on the side of the camera, and is designed to switch on automatically when you take up the film and charge the shutter.

Note: The mercury battery used in the CdS meter will not become exhausted if it does not receive any light.

However, if it is left with the shutter set, the battery will be used up. When not in use keep it covered with the lens cap.

One of the mistakes made most often by those handling a camera for the first time is unsteady holding of the camera. An unsteady camera means blurred pictures. Even if you use a shutter speed faster than 1/250 sec. your pictures may still be blurred if your camera is unsteady.

There are two ways of holding a camera horizontally and vertically. In either case, hold the camera firmly with two hands, press the camera against your face and keep both elbows. against the body.

Press the shutter button slowly while holding your breath. The worst thing you can do is to press the shutter button with a quick movement, Even when taking snapshots that require fast

shooting, it is wise to release the shutter easily.





The range-viewfinder on your Camera which shows the picture area clearly cutlined by a bright frame, is very convenient for composing pictures. The illuminating bright frame is of special design and is one of the chief features of this camera. If the subject is proporty included within this frame, there is absolute.

tely no fear of cropped images in the final picture.
When taking pictures of people at close distance, keep them within the inner frame. This inner frame is called the parallax correction mark and envents the subject from being cropped at close range.

When looking into the range-viewfinder, aim it straight at the subject, and then bring the pupil of the eye to the center of the eyepiece. If the eye is not close to the eyepiece, a correct field of view cannot be obtained.

Be careful that the camera is level with the subject and that it is not viewed off center. Always keep in mind the instructions mentioned previously under "How to Hold the Camera".







The adjusting of focus is performed by moving the focus adjusting ring. The range-finder is in common use with the viewfind-

It is of the single-lens coupled range finder type in which the composition of the picture is possible simultaneously with the bringing into focus of the subject.

Usually, when the subject is seen through the rangefinder, it will appear double in the yellow-tinted square in the center. This means that it is not in focus.

In such case, move the focusing lever to left or right until the two images are superimposed into one image. The subject is now in sharp focus. When the correct focus is obtained the distance scale will indicate the distance to the subject.

## IISING FILTER

When using a filter on the lens, as the filter is put on the CdS meter cell simultaneously, there is no need to make any exposure compensation.

Filter	Type of color	Filter	Effects
,u.v.	clear	1.0	Abserbs ultra-voict register without increase of exposure, eliminating a foggy appearance. Thus, clear pictures can be gained. Being transparent, its constant use is recommended as a lete prefet for.
11.7 12	yellow	1.5 2.0	Benders a good total interpretation and gives correct contrast between blue sky with clouds and ground. Dised for distant and marine scenes, flowers and shrabs, snow scenes. 32 is the most useful filter for all daysight exposures.
, YA2 YA3	orange	3.0 4.0	Renders a strong contrast between red and yellow colors. Adds detail to distant landscapes.
81	red	8,0	With infra-red film gives infra-red effects for outdoor scenes which render follage as white tone.
P00	green	2.5	Lightens foliage in sunlight. Effective for gardens with multi-colored flowers, portraiture in soft smilght.







Wind the film, charging the shutter, and then set the self-timer by moving the selftimer lever. The shutter will operate automatically approximately 10 seconds after it is released. The self-timer lever, can be set at 2 seconds or 5 seconds also. Therefore, it can be used for various purposes. When shooting pictures with shutter speeds slower than 1.70 see. It is best to use a tripod and a cable release to prevent bitarring of pictures.

The cable release is of the screw-in type and is screwed into the shutter button hole. When you do not have a cable release, another effective way of preventing blurred pictures is by releasing the shutter after setting the self-timer at 2 or 3 seconds.

When the self-timer is in use, the EE will give correct exposure and manual operation is also available.

mount by means of a bracket.

For flash photography, attach the flashgun to the accessory shoe. A large-sized flash unit can be fixed onto the tripod

When shooting with flash, ignore the light meter within the viewfinder and set the shutter speed and lens aperture according to the directions accompanying the flash bulb. This is because the amount of light entering through the light meter window differs in volume from that caused by the instantaneous flash of the bulb.

> M Bulb Under 1/30 sec. Under 1/60 sec. F Bulb









#### The exposed film must be rewound from the

take-up spool back into its original cartridge. First, pull up the rewind knob and unfold the crank handle. Then press the sprocket release button

at the hottom of the camera and rewind the film back into the cartridge in the direction indicated Towards the end of the rewind the crank will become a little heavy, but when the lead film leaves the clip the crank handle suddenly released.

This means that the rewind has been completed. Therefore, open the back cover and take out the cartridge. Return the crank handle to its original CAUTION:

When the entire roll of film has been exposed, it may happen that you will not be able to turn the film advance lever a full stroke. In such a case, do not force it, as you may cut the film. Press the rewind button and wind the lever completely. return the lever and then rewind the film while pressing the rewind button. If the film is cut midway it becomes impossible to rewind and must be rewound in a darkroom

(19) Exposure coupling ring

(19) Exposure coupling ring (auto manual switchover) (ph) Self-timer lever

(21) Tripod mount

(22) Sprocket release button

(23) Film rewinding shaft (24) Cartridge chamber

(25) Eyepiece for range-viewfinder

(26) Film guide rail (27) Film sprocket (28) Film take-up spool (20) Film pressure plate

(30) Cartridge positioning spring (31) Rear cover

CdS battery housing



Photo 1. Open the rear cover of the camera by pulling up the lock.

Photo 2. Place the film cartidge in the film chamber.

Photo 3. Draw the film leader from the cartridge and insert it into the film slot of the easy loading soool.

Photo 4. Move the film advance lever slowly so that the sprocket teeth catch the film perforations and take up the slack.

It is advisable to load film in a dark place avoiding the direct sunlight. When there is no shade make a shade





- Avoid wiping the lens with a cloth or fingertip. Dust it with a soft lens brush or wipe it carefully with silicone cloth.
   Do not leave your camera with the shutter cocked for a long time as the CdS light.
- meter is charged when the shutter is cocked. To avoid waste, do not leave the camera shutter cocked when your camera is not in use.

  3. When loading film, keep the camera away from dust and moisture. Before loading, dust
- the film pressure plate with a lens brush to avoid injuring the film surface.

  4. Remember to take special care of camera immediately after using it at the seaside or on rainy days.
- If you should drop the camera into the water, wash it with alcohol or some other volable liquid and have it inspected or repaired as soon as possible.
- When your camera will not be in use for a considerable length of time, the battery should be taken out of its compartment.





# TARON CO., LTD

12-22, Nishi 4- chome, Ohmori, Ohta-Ku, Tokyo, Japan.

......





- 44. Language de baldes THE RESERVE OF ACCUMPANTING THE DOS. PRINCES EXCEPTIONS SERVED COLLEGES.

cold to vot 43 Milliolater to clean desc le griffe(9) or roller to