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CAMERA
C O S M I C
S Y M B O L

ATTENTION!

Before using your camera, please acquaint yourself with the present technical description and operation instructions.

Slight discrepancies between the present Description and your camera are possible due to development of its design or improvement of its appearance.

"Cosmic-Symbol" is a present-day, small in size camera intended for amateurs.

The camera incorporates a hard coated lens, an optical viewfinder, a between-the-lens shutter with wide diapason of shutter speeds, a weather and distance symbols scales, and flash-synchronizer and assures the widest choice of shooting.

One of the characteristic features of the camera "Cosmic-Symbol" is the system of symbols used for the exposure and distance setting.

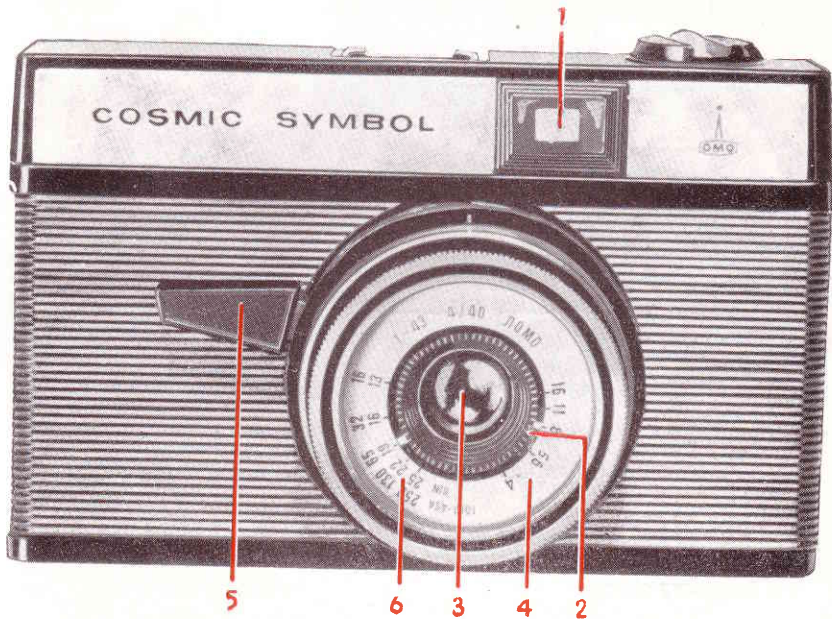
There is no need to study photo theory and practice to use this camera.

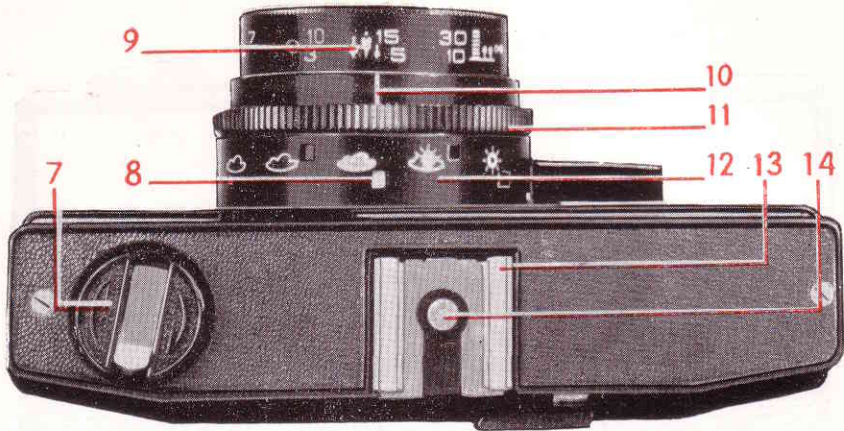
SPECIFICATIONS

Film accepted	35 mm
Picture size	24×36 mm
Picture number	36
Lens: hard coated, three-element anastigmat T-43:	
focal length	4 cm
relative aperture	f/4
Shutter speed	1/250; 1/125; 1/60; 1/30; 1/15 sec. plus "B"
Distance scale	from 1 m up to ∞ (infinity) from 3.5 ft up to ∞
Light sensitivity scale of photomaterial	from 16 to 250 GOST-ASA units, from 13 to 25 DIN units
Thread diameter for the light filter mount	35.5 mm

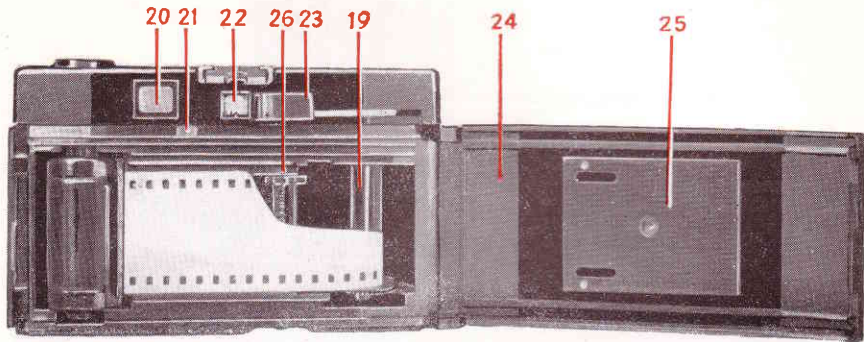
PRINCIPAL PARTS AND THEIR APPLICATION

1. Viewfinder.
2. Indices ring.
3. Lens.
4. Diaphragm scale.
5. Shutter release lever.
6. Film light sensitivity scale.

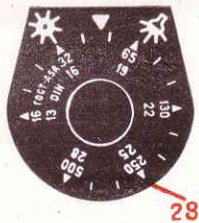




7. Rewind crank.
8. Movable index of weather symbol scale.
9. Distance scale.
10. Distance scale index.
11. Weather symbols (shutter speed) setting ring.
12. Weather symbol scale.
13. Accessory shoe.



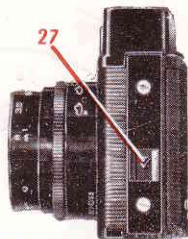
- 21. Picture counter reset lever.
- 22. Picture counter.
- 23. Lever to cock shutter and to wind film.
- 24. Camera back.
- 25. Pressure pad.
- 26. Feed shaft.
- 27. Back latch.
- 28. Reminder scale.








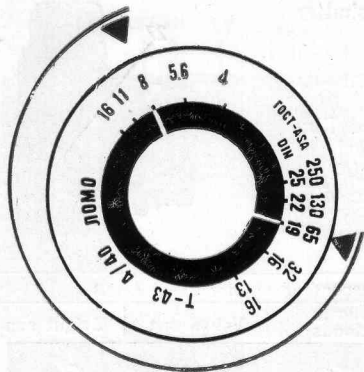
The weather symbol scale is intended for shutter speed determination and its setting.

The camera work program for determination and setting the exposure based on the weather symbols and film light sensitivity is given in the table.

When setting the sensitivity of the loaded film by the scale which is on the front lens part, at the same time the required diaphragm which is given in the table is stopped. For instance diaphragm f/8 corresponds to the sensitivity of 65 GOST units.



Film light sensitivity, GOST units	Weather symbol and corresponding shutter speed (sec.)				
	Thunder clouds	Overcast sky	Sun in clouds	Veiled sun	Bright sun
					
	1/15	1/30	1/60	1/125	1/250
	D i a p h r a g m				
16	4	4	4	4	4
32	5.6	5.6	5.6	5.6	5.6
65	8	8	8	8	8
130	11	11	11	11	11
250	16	16	16	16	16



The shutter speed setting is made in accordance with the symbols, corresponding to the weather at the moment of taking pictures.

If there is the sun in the sky and there are no clouds, symbol BRIGHT SUN should be set, that will correspond to the shutter speed of 1/250 sec. Thus, every beginner having no elementary knowledge in photography can operate with camera "Cosmic-Symbol" outdoors.

Note. It is necessary to remember that it is expediently to use the weather symbols approximately from 8 a. m. to 17-18 p. m. in the period from April to August and from 10 a. m. to 14-16 p. m. from September to March. When taking pictures in the deep shade in the sunny weather it is recommended to make a correction

at weather symbols setting. For instance: symbol BRIGHT SUN.

symbol VEILED SUN should be set instead of

The shutter speed setting method in accordance with the weather symbols cannot guarantee good pictures in the early morning hours as well as in twilight and in the other bad light conditions especially when there is a dark period of year. Therefore in such cases the exonometer may be used or test shots can be done.

Then, if there is any wish, the photo amateur can take pictures by the shutter speed or diaphragm scale, using his creative possibilities.

The between-the-lens shutter offers the following automatic shutter speeds: 1/250; 1/125; 1/60; 1/30; 1/15 sec.

Any shutter speeds which are regulated by hand are got when the shutter speed scale is set at index "B".

The shutter is cocked by turning the shutter's and the film wind lever till it will stop.

The required shutter speed setting is performed by turning the weather symbol ring (shutter speed) to its coincidence with the index.

The lens diaphragm serves for adjusting the light aperture diameter.

The change of the lens opening is effected by turning the diaphragm ring. The lens opening is changed in cases when it is desirable to increase the depth of sharpness or when the amount of light is too large at a selected shutter speed.

The steps of the shutter speed and diaphragm scales are calculated so that the enlarging and decrease of the shutter speed and the diaphragm by one setting doubles or makes two times less amount of light reaching the film. For instance, the exposure time is 1/60 sec. with an aperture ratio f/5.6, and the exposure time must be 1/30 sec. with an aperture ratio f/8 at the other same conditions.

The figures engraved on the shutter and diaphragm scales indicate only fraction denominators: for example "250" instead of 1 : 250, "8" instead of 1 : 8 etc.

The viewfinder gives the sharp frame edges.

The picture counter points to the number of shots you've taken. When the camera back is opened the counter is automatically set on "—2" pictures. If it does not occur, cock the shutter without closing the camera back.

TO LOAD THE CAMERA

Before loading your camera, make sure that the film is loaded into the cassette properly.

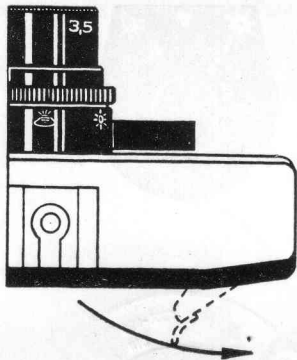
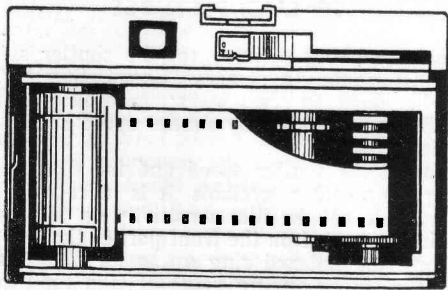
For most convenient loading of the "Cosmic-Symbol" camera, let an even end of the film, without fractures and folds, protrude from the cassette at length of not more than 50—60 mm.

If a longer than 50—60 mm end of the film is protruding from the cassette, wind the unnecessary length of the film back into the cassette turning for this purpose the spool lug. Cut off the fractured or folded end of the film.

On having convinced that an even end of the film not longer than 50—60 mm protrudes from the cassette, you can proceed to load the camera.

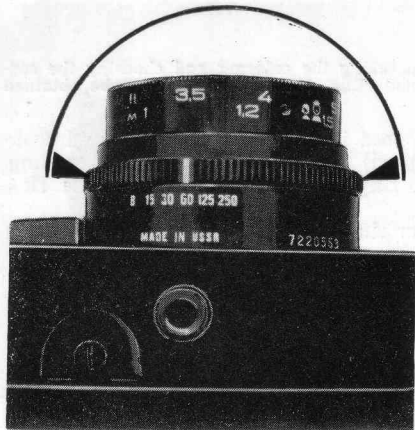
It is necessary, for this aim:

1. Open the latch, hinge away the camera back and pull the rewind crank out of its socket.
2. Take the cassette into your left hand, take hold with a finger of your right hand on the lug of the take-up spool, put the perforation of the film end on the claw of the take-up spool.
3. Pulling the film (it will go out of the cassette) insert the cassette into the camera.
4. Check up whether the film is located in the film channel in the proper way. The film should rest against slides of the projection aperture without warpings. The claws of the feed shaft should enter the slots of perforated film.
5. Turn the rewind crank to lower it into its socket.
6. Close the camera back.
7. Turning the shutter cock lever and pressing down the shutter release



lever, advance the film for two pictures until division "0" is set against the index of the counter.

Set the reminder scale for a film you are going to exposure, lest you should forget it. To this end, match a relevant value of film light sensitivity in GOST, ASA or DIN units with the symbol of the film type. The reminder scale has the following denominations: BRIGHT SUN which corresponds to the colour film in the daylight, LAMP which corresponds to the colour film in the artificial light, WHITE SECTOR — to the white-and-black film.



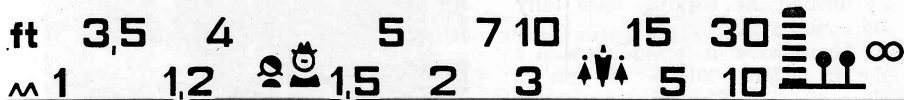
the moment of flash explosion with the moment of shutter complete opening is effected by the synchronizer which comes in automatically when the shutter is being released.

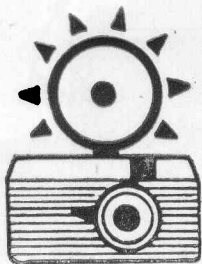
The camera has a diaphragm shutter which enables shooting with the electronic flash at any shutter speed.

ATTENTION! Flash-lamp used in the "Cosmic-Symbol" is fixed to the camera, thus the connection terminals are located at the accessory shoe.

After shooting the last picture, the film should be wound into the cassette. To this end, depress the

knob disengaging the film wind mechanism, the knob remaining dipped, put aside the lever of the film rewind crank and turn the latter in the direction of arrow.





After winding open the camera back latch, pull the rewind crank and take the cassette out of the camera.

Note. In case the film wind mechanism disengagement knob has not been fixed dipped, you should bring the shutter cock lever up to stop, depressing the knob with your finger.

GENERAL HINTS

Handle the camera with care.

Soiled lenses deteriorate pictures sharpness, so it is necessary to keep lenses always clean. The objective and viewfinder could be wiped from the outside only using a clean cambric or linen cloth, on having breathed on them.

Never try do-it-yourself repairs.

It is prohibited to wipe the plastic parts of the camera with alcohol, acetone and active solvents.