



1 GENERAL INFORMATION

Smena-Symbol is modern 35mm camera purposed for wide variety of photo amateurs.

It has coated lens, optical viewfinder, central shutter with wide range of speed, weather/distance scale, flash lamp synchronizer.

Distinctive feature of the Smena-Symbol camera is use of symbolic system to set exposure and distance.

The camera can work at temperature range from -15 to $+45^{\circ}\text{C}$, and shouldn't be exposed to direct sun radiation or atmospheric precipitations.

Please read this manual carefully before using the camera.

2 SPECIFICATIONS

Film width	35mm
Frame size	24x36mm
Frame count	36
The lens is coated 3-elemet anastigmat:	
Focal length	40mm
Relative aperture	1:4
Shutter speeds	1/250, 1/125, 1/60, 1/30, 1/15, "B"
Distance scale	From 1m (3.5ft) to infinity
Film speed scale	16-250 GOST/ASA or 13-25 DIN
Filter mounting thread	35.5mm
The camera contains 0.012g of silver.	

3 DELIVERY SET

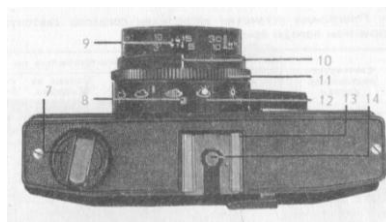
1. The camera Smena-Symbol 1
2. The camera case 1
3. The packing box 1
4. User manual 1

4 CONSTRUCTION

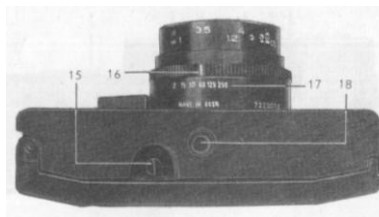
4.1 Camera parts (pictures 1, 2, 3, 4, 5, 6)



Picture 1



Picture 2



Picture 3






26. Film advance sprocket.
27. The door lock.
28. Memo.

1. Viewfinder.
2. Indexed ring.
3. Lens.
4. Aperture ring.
5. Shutter release lever.
6. Film speed scale.
7. Rewind knob.
8. Movable index of the weather symbols scale.
9. Distance scale.
10. Distance scale index.
11. Ring for setting of the weather symbols (shutter speeds).
12. Weather symbols scale.
13. Hot shoe.
14. Synchronizer contact.
15. Film advance mechanism deactivation button.
16. Shutter speed scale index.
17. Shutter speed scale.
18. Tripod nut.
19. Take-up spool.
20. Viewfinder window.
21. Film counter reset lever.
22. Film counter.
23. Shutter cock/film advance lever.
24. Camera door.
25. Pressure plate.

4.2 Purpose of the camera parts

The weather symbols scale is purposed to determine and set of the shutter speed.

The program of exposure setting for different films is given in the table below.

The film sensitivity		The weather symbols and corresponding shutter speeds (seconds)				
		Thunderstorm clouds	Cloudy	Sun in clouds	Sun in haze	Sunny
GOST/ASA	DIN					
		1/15	1/30	1/60	1/125	1/250
		Aperture value				
16	13	4	4	4	4	4
32	16	5.6	5.6	5.6	5.6	5.6
65	19	8	8	8	8	8
130	22	11	11	11	11	11
250	25	16	16	16	16	16

When you shoot in shadows at sunny day, it is recommended to adjust exposure (for example, use “Sun in haze” symbol instead of “Sunny”).

When you set sensitivity of the loaded film on the scale (7) located on the front side of the lens, a diaphragm value specified in the table above being set simultaneously. For example, film speed of 65 GOST corresponds to the aperture value of 1:8.

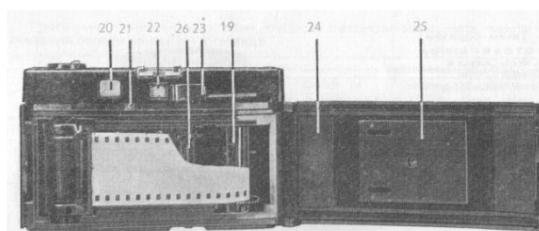
Shutter speeds are set with the weather symbols corresponding to current environment conditions. In clear sunny days it is necessary to set “Sunny” symbol that corresponds to 1/250sec shutter speed.

Thanks to these easily understandable symbols, even novice without any photography knowledge can take good pictures.

Note. Keep in mind that this weather symbol scale can be used since 8am to 5-6pm (April-August) and since 10am to 2-4pm (September-March).

This method can't be reliable at early morning, in twilight and other low light conditions, especially during dark seasons. You should take test pictures or use a light meter in such cases.

When you become more skilled photographer, you can use aperture and shutter speed scales to take more artistic pictures.



Picture 4

The central shutter has automatic speeds of 1/250, 1/125, 1/60, 1/30 and 1/15 second. When the shutter speed scale is set to “B” mark, you may get any speed by your hand.

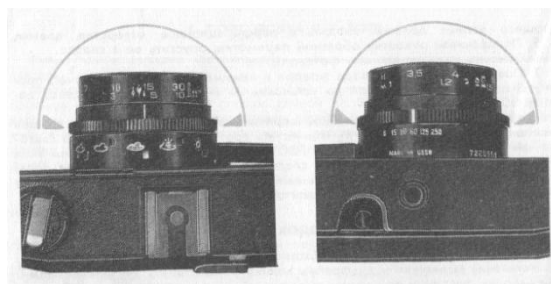
To cock the shutter and advance the film, it is necessary to turn the lever (23) till stop. Necessary shutter speed is set by turn of the weather symbol ring to align necessary symbol with the index mark.

6 OPERATION

Set the shutter speed and aperture value. It can be done either by weather symbols or by shutter speed and aperture scales.

To set the shutter speed and aperture value using weather symbols, it is necessary to set the film speed first on the scale on the front parts of the lens, turning the ring with indexes till align with corresponding film speed.

Aperture will be set accordingly, and its value can be read on the aperture scale. Then estimate sky conditions and turn the weather symbols (shutter speed) ring so that a cut-out window near necessary symbol became white (Picture 9).



Picture 9

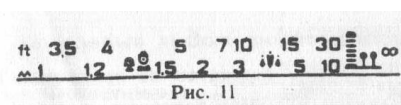
Picture 10

Note. Real sky conditions may not match selected symbol a bit since it is impossible to represent all possible conditions with just 5 symbols. But negatives shot with exposures determined with weather symbol will be suitable for printing if you choose correct photo paper. When you shoot on color film, it is better to close aperture down to at least 1:5.6.

To set exposure with shutter speed and aperture rings, it is necessary to turn the weather symbol ring (Picture 10).

Necessary aperture value can be set turning the indexed ring on the front side on the lens.

Then you should focus the lens – estimate the distance to the object and set it with aid of corresponding symbols (“group”, “portrait”, “landscape” etc.) or with distance scale marked in meters and feet (Picture 11).



Picture 11

Set the frame borders, looking into the viewfinder (Picture 12).



Picture 12

Press the shutter release button to take a picture.



Picture 13

To get the camera ready for the next picture, pull the lever till stop – this will cock the shutter and advance the film by one frame.

The camera allows using of a flash lamp (Picture 13). To synchronize moment of the flash with moment of the fully opened shutter, there is built in synchronizer. The camera has central shutter that makes it possible to use a flash lamp at any shutter speed.

ATTENTION! The camera Smena-Symbol is designed to be used with cable-less connection with the camera, so it has so called hot-shoe (synchro contact is located in the accessory shoe).

After last frame is shot, it is necessary to rewind the film back into the cartridge. Push the film advance mechanism deactivation button that will remain in the pushed state, unfold the rewind knob handle, and rotate this handle in the arrow direction. After the film is rewound, open the lock, open the back door, pull the rewind knob, and take the cartridge out of the camera.

Note. If the deactivation button doesn't stay in the pushed position, it is necessary to pull the film advance lever till stop.

7 MAINTENANCE

The camera requires gently handling. Dirty lenses lower picture quality, so it is necessary to keep them clean. You may wipe the lens and viewfinder glass with clean cambric or linen cloth giving the glass a breath before this.

It is forbidden to disassemble the camera.

It is forbidden to clean plastic parts with spirit, acetone or other active solvents.

8 WARRANTY

If you discover a factory defect, you have a right to have it fixed free of charge in one of warranty repair workshops.

You may exchange a faulty camera in cases, stated in the "Rules of exchange of manufactured goods purchased in the retail distribution network" sanctioned by the Trade Ministry of USSR.

You lose right to warranty repair if the malfunction is result of rough handling or violation of operation rules, or if you don't have a warranty ticket with a store stamp and sale date.

If there is no warranty repair workshop in your ara, please post the camera to: Nevskiy prospekt 20, 191186, Leningrad, Russia.

Camera owners in Moscow can bring their camera to the warranty repair workshop at Nezhdanovoy street, 4.