



WARNING!

The lens is not removable. Any attempt to unscrew the lens may break the camera.

The camera VILIA works in temperature range from minus 15°C to plus 45°C. Maximum allowed humidity is 85% at plus 25°C.

1. GENERAL INSTRUCTIONS

VILIA is modern 35mm scale camera purposed for wide society of photo amateurs.

Coated lens, optical viewfinder, central shutter with wide range of speeds allow to take very different pictures.

Distinctive feature of this camera is simplified exposure and distance set with symbols.

Before using the camera, become familiar with it and read this operation manual carefully. Observing these rules you will provide long life to your camera.

Some distinctions between this manual and your camera are possible due to improvement of the camera.

Require checking of the camera operating condition when you buy it. Make sure that the acceptance certificate and warranty repair coupons have a shop stamps, sales person signatures and sale date. Check the camera delivery set. There is invention (inventors certificate #366447) is applied in the camera.

2. Specifications

Lens	«Triplet-69-3»
Geometrical apertures	1:4; 1:5.6; 1:8; 1:11; 1:16
Focal length, mm	40
Frame size, mm	24x36
Width of the perforated film, mm	35
Number of frames	36
Shutter speeds, sec	1/30, 1/60, 1/125, 1/250, "B"
Minimum focus distance, m	0.8
Inner thread for attachments	M46x0.75
Tripod thread	1/4"
Optical viewfinder with luminescence frames, with magnification	0.6x
Dimensions, mm, not more than	128x85x72
Weight, kg, not more than	0.400

3. DELIVERY SET

Item	Qty in the make 0126.00.00.000–	
	–	02
Camera	1	1
Lens cap*	1	1
Hard case	1	–
Soft case	–	1
Shoulder strap	–	1
Carton box	1	1
Cartridge GOST 3543-72	1	1
Operation manual	1	1

* On the lens.

OKP codes: 44 4612 6000 08 for make 0126.00.00.000.
44 4612 6010 06 for make 0126.00.00.000-02.

4. CONSTRUCTION OF THE CAMERA

The camera has central shutter with wide range of speeds.

There are following features in the view field of the viewfinder: luminescent frame with parallax correction marks, weather symbols scale, diaphragm set index.

The lens can be focused with distance scale and with distance symbols marked on the distance ring.

Levered shutter cock mechanism has a blocker to prevent empty frames and double exposure.

Exposed film can be rewound back into the cartridge with the rewind knob.

Camera controls and functional units are shown on the pictures 1-3.

1. Shutter release button	4. Rewind knob
2. Hot shoe	5. Flash sync cable contact
3. Viewfinder (front lens)	

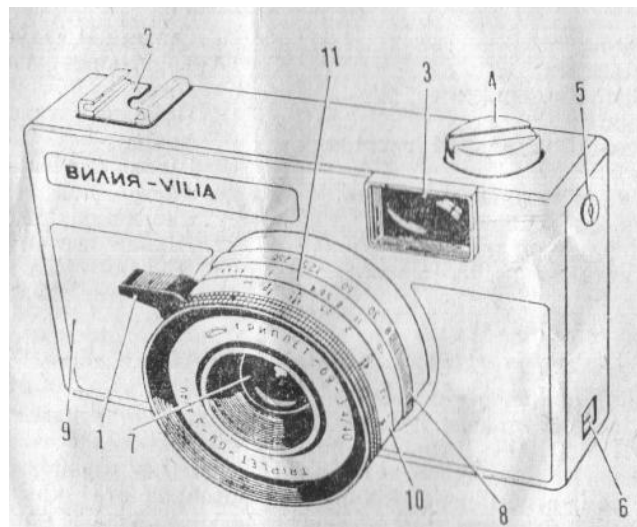
6. Lock	16. Take-up spool
7. Lens	17. Transporting sprocket
8. Shutter speed scale	18. Aperture set lever
9. Body	19. Aperture value scale
10. Distance set ring	20. Tripod mount
11. Depth-of-field scale	21. Rewind button
12. Viewfinder eyepiece	22. Picture counter scale
13. Film speed reminder	23. Film speed set ring
14. Shutter cock lever	
15. Back door	

5. PREPARATION FOR WORK

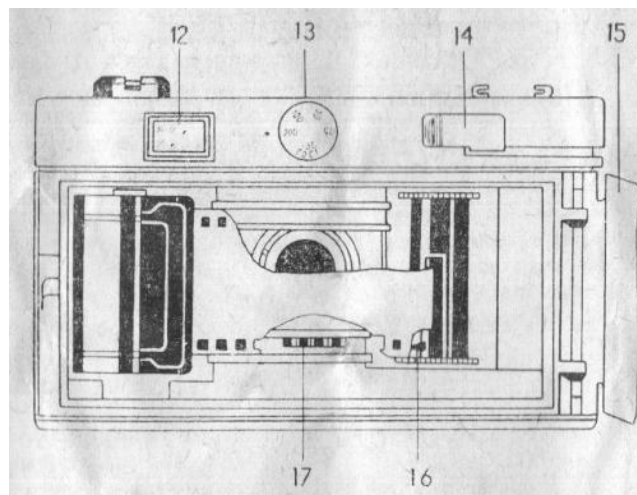
5.1. Loading the camera

First of all, make sure that film is loaded into the cartridge correctly.

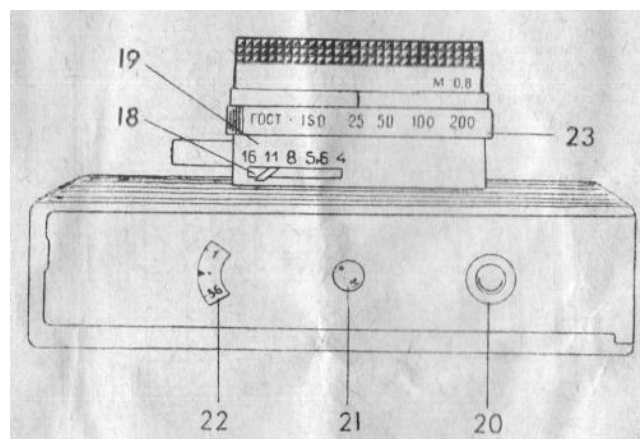
WARNING! If you use metal cartridges similar to one supplied with the camera, make sure that the cartridge lids are turned counter-clockwise till stop. Protruding part of the cartridge should point to the right side.



Picture 1. Front view.



Picture 2. Inside view.



Picture 3. Bottom view.

Keep in the mind that construction of the plastic cartridges supplied with film like “Orwo-Color” or “Orwo-Chrome” is purpose for single use. It is not recommended to use them repeatedly.

Press the lock 6 down and open the camera back door. Unfold the rewind knob handle, pull the knob up and insert the loaded cartridge into the camera. Press the rewind knob down till stop after that.

Insert the film end into the slot of the take-up spool 16 so that the spool spur catches one of the perforations. Make sure that the film resides on the film channel rails without skew, and transporting sprocket 17 catches the film perforations. Hold the film with your left hand finger and turn the lever 14 to make sure that the film is advanced, and that the sprocket 17 rotates.

Close the back door and advance the film to unexposed part.

To advance the film, turn the lever 14 smoothly till stop and press the shutter release button 1. Repeat this till you see number 1 against the index mark of the picture counter scale 22. Rotating rewind knob during this step confirms that film is being advanced. Set the film speed with the reminder 13 (Picture 2).

6. OPERATION

6.1. Taking pictures

Remove the cap from the lens and set the shutter speed and aperture.

You may set the shutter speed and aperture either with their values, or with corresponding symbols.

To apply the first method, just align required value of the shutter speed on the scale 8 with the index mark, and set the diaphragm lever 18 against required value on the scale 19.

To apply the second method, it is necessary to keep in the mind that the shutter speed scale 8 is combined with the film speed reminder 23. So, to set the exposure value it is necessary:

- to set the film speed turning the reminder ring 23 in accordance with the Table 1; this will cause setting of the shutter speed in accordance with the Table 2;
- to estimate a weather conditions and set corresponding symbol moving the lever 18 till click so that necessary weather symbol is set against the index mark in the viewfinder; the lever 18 will point to the set aperture value after that.

Table 1

Film speed set in the camera, GOST/ISO	Actual film speed	
	GOST/ISO	DIN
25	20, 25, 32	14, 15, 16
50	40, 50, 64	17, 18, 19
100	80, 100, 125	20, 21, 22
200	160, 200, 250	23, 24, 25

Таблица 2

Film speed set in the camera, GOST/ISO	Weather symbols				
	«thunder clouds»	«cloudy»	«sun in clouds»	«sun in haze»	«bright sun»
	Aperture values corresponding to the weather symbols				
	4	5.6	8	11	16
25	1/30	1/30	1/30	1/30	1/30
50	1/60	1/60	1/60	1/60	1/60
100	1/125	1/125	1/125	1/125	1/125
200	1/250	1/250	1/250	1/250	1/250

It is allowed some discrepancy of the symbol and weather since these five symbols can't reflect all possible weather or sky conditions.

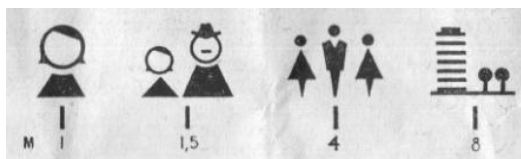
Note. It is necessary to remember that the weather symbols are useful since 8:00 till 18:00 since April till August, and since 10:00 till 16:00 since September till March.

When you are shooting in deep shadows at sunny day, it is necessary to make correction of the weather symbols. For example, you may set “sun in haze” symbol instead of the “bright sun” symbol.

This symbolic method can't provide suitable exposure setting at early morning hours, in twilight or under other bad weather conditions, especially in the dark season. In such cases you should take test pictures or use a light meter.

After setting of necessary shutter speed and aperture, focus the lens. To do this, determine distance to the object and turn the ring 10 till necessary distance value is aligned with the immovable index mark. To simplify the distance set you may use the symbol method as well aligning necessary distance symbol with the immovable index mark. Symbols on the Picture 4 (left to right) have following meanings: «close shot», «portrait», «group», «landscape». Minor errors in the distance determination don't affect picture noticeably since the lens has large depth-of-field.

The depth-of-field is the distance range within which all objects are pictured sharp. In each case actual depth-of-field depends on focused distance and aperture value.



Picture 4. Symbol scale.

Lesser aperture and longer focus distance cause growth of the depth-of-field.

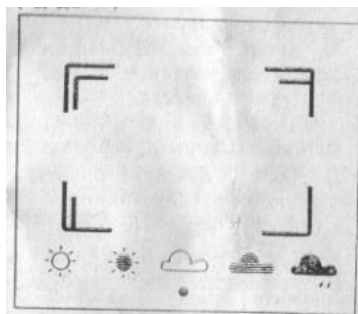
You may use the scale 11 with aperture values marked to the both sides of the index mark to determine actual depth-of-field.

Close and far limits of the depth-of-field range can be read against two numbers on this scale corresponding to the set aperture value.

For example, if the lens is focused to 8m, and aperture is set to 1:4, all objects situated within 4m to ∞ will be pictured sharp.

Now, cock the shutter by turning the lever 14 till stop. Look through the viewfinder eyepiece 12 and point the camera to the object so the object is inside the frame markers. If the object is closer than 3m, you should refer to inner frame markers (Picture 5).

Release the shutter with smooth pressing of the shutter release button 1.



Picture 5. Frame bounding marks in the viewfinder.

6.2. Using a flash lamp

The camera VILIA has sync contact to use pulse flash lamps. The flash lamp should be installed into the hot shoe 2 on the top of the camera.

The hot shoe 2 allows using wireless flash lamps. You can connect and disconnect a flash lamp with cocked or released shutter.

The lamp flashes in sync with the shutter release.

More detailed instruction on using a flash lamp is given in the flash lamp operation manual.

6.3. Unloading the camera

As soon as the picture counter reaches number 36, it is necessary to unload the camera. To do this, release the shutter, unfold the handle of the rewind knob 4, and press the rewind button 21. Hold the button in the pressed state and rotate the handle in the arrow direction to rewind the film back into the cartridge.

When the film is rewound completely, you will feel a jerk, and rewind handle will rotate more easily.

Open the camera back door, pull the rewind knob up and take the cartridge out of the camera.

The picture counter will reset automatically.

7. MAINTENANCE

The camera requires gently handling. It is necessary to keep it clean and protect it against mechanical damages, humidity and fast temperature changes. If you brought the camera from cold into warm room, do not take it out of the case within 1.5-2 hours to prevent moisture condensation on the optical elements.

Store the camera in the case. The lens should be protected with the cap, and shutter should be released.

You may clean coated optical elements of the lens and viewfinder with soft linen napkin or cotton wool moisture in spirit a bit without hard pressing, or with soft squirrel brush.

It is forbidden to disassemble the camera since this may cause misadjusting of different parts. Any repair and adjusting should be done by skilled techs in repair workshops. It is strictly forbidden to use any oil or grease in the camera.

8. TROUBLESHOOTING

Problem	Possible cause	How to fix
The rewind knob doesn't rotate during shutter cock (the camera is loaded with a film)	Incorrect film load, so film doesn't advance	Open the camera back door and load the camera as described in the Section 5.1.

9. WARRANTY

The camera VILIA corresponds to the model sample. Manufacturer guarantees meet of the camera to the requirements of TU3-3.926-79 if user holds to the operation manual.

Warranty period is 18 months since sale date. If there is no sale date and shop stamps in the user manual and warranty coupons, the warranty period is counted since manufacture date.

During the warranty period user has right for free-of-charge maintenance and (in case of factory defect) free-of-charge repair. In such cases corresponding coupon is cut out of the manual.

Maintenance and repair should be done in one of the warranty workshop. Closest warranty workshop address should be given by the shop where you bought the camera. If there is no warranty workshop in

your city, you should send the camera to the manufacturer in the full delivery set, packed safely. Please include this operation manual, brief description of the problem and clear return shipping address.

It is allowed to transport the camera with any kind of covered vehicle at temperature range from minus 50°C to plus 50°C.

No claims accepted if the camera malfunction is caused by careless handling or violation of the user manual, or if you don't have the user manual and warranty coupons.

It is possible to exchange the camera through the retail network if you have conclusion of the warranty workshop in accordance with current "Rules of the exchange of manufactured goods bought in state or cooperative retail networks". These rules states that the optical goods should be exchanged if manufacturer or repair workshop doesn't fix a malfunction within 7 days since a customer applied a claim, or if the product requires another repair after one repair has been done.

10. ACCEPTANCE CERTIFICATE

The camera VILIA with serial number _____ meets technical requirements TU3-3.926-79 and considered suitable for operation.

Manufacture date « ___ » _____ 198__.

Retail price in hard case is 21 rubles. Price list #082A-1985 position 5.

Retail price in soft case is 23 rubles. Price list #082A-1985 position 6.

Address to send claims to:

220012, Minsk, ul.Kalinina 5. Masterskaya garantiynogo remonta.

Controller of the Quality Control Department _____

Packer _____

Sale date « ___ » _____ 198__.

Sale person _____

(signature or stamp)

Shop stamp

This product is manufactured under control of Governmental acceptance department.