

FILMING

LENSES 16OKC1-6-1, 16OKC9-150-1,
16OKC7-200-1, 16OKC6-300-1

technical description

AND THE OPERATING INSTRUCTIONS:

OX1-5,9-1,000, OX9-150-1,000,
OX7-200-1,000, OX6-300-1,000 TO)

1. introduction

This technical description and operating instructions-
The qin (TO) applies to filming lenses
(hereinafter referred to as lenses) 16OKC1-6-1, 16OKC9-150-1, 16OKC7-200-1,
16OKC6-300-1,

Technical write-off is intended for familiarization with con-
the structure of the object and contains the information necessary
for the full use of the technical capabilities of the lenses and
their proper operation.

2 appointments:

2.1. The lenses are designed for shooting 16 films.
The design of the fountains allows them to be installed
in the 4KSR, 16SH2M and all other devices, the
connecting dimensions of which meet the requirements of
OST 19- 144-83.

2.2. The lenses are produced in accordance with GOST
15150-69 U1.1 and are designed to work in temperate climates at
air temperatures from minus 30 to +40 ° C, relative humidity
up to 95% at 25 ° C,

3. technical data

Table 1

Name parameter	The value of the parameter			
	160KCI-6-1	160KCI-15-1	160C7-200-110300-1	
Radius of curvature of the Gozmetrao- skoe otvora telne stve	$5,9 \pm 0,3$	$130 \pm 7,5$	200 ± 10	300 ± 15
telne stve	1:4,8	1:3,7	1:2,8	1:3,5
The smallest geometric impression is on the spindle	1:23	1:22	1:22	1:22
Upot fields zre- niamand prost kuste prod- mete	$100^{\circ}30'$	9°	$3^{\circ}44'$	$3^{\circ}22'$

3. ТЕХНИЧЕСКИЕ ДАННЫЕ

Таблица 1

Наименование параметра	Величина параметра			
	160КС1-6-1	160КС2-150-1	160КС7-200-1	160КС28-300-1
Фланцевое расстояние, мм	$5,9 \pm 0,3$	$130 \pm 7,5$	200 ± 10	300 ± 15
Геометрическое относительное отверстие	1:4,8	1:2,7	1:2,8	1:3,5
Наименьшее геометрическое относительное отверстие	1:22	1:22	1:22	1:22
Угол поля зрения в пространстве предметов	$100^{\circ}30'$	9°	$3^{\circ}44'$	$3^{\circ}22'$

Continuation of Table 1

Name parameter	Parameter value			
	160x1-6-1	160x8450-1	160RC7-200-1	160RCB-300-1
160806-300-1 Photographic resolution, mm- in the center of Prague field at 5.5 mm	64	50	50	55
Minimum removal distance, μ	—	1.5	2.0	3.0
Worker diameter, mm	52 +0.02	52 +0.03	52 +0.03	52 +0.03
Overall dimensions, mm: (without band)	90 78	141 74	197 97	347 112
Weight, kg	0.37	0.73	1.38	2.27

Продолжение табл. 1

Наименование параметра	Величина параметра			
	160КС1-6-1	160КС9-450-1	160КС7-200-1	160КСВ-200-1
Фотографическая разрешающая способность, мм ⁻¹ :				
в центре поля $y' = 0$	64	50	50	55
на краю поля $y' = 5,5$ мм	30	25	25	25
Минимальная дистанция съемки, м	—	1,5	2,0	3,0
Рабочий отрезок, мм	52 +0,02	52 +0,03	52 +0,03	52 +0,03
Габаритные размеры, мм:				
длина (без блонды)	90	141	197	347
диаметр	78	74	97	112
Масса, кг	0,37	0,73	1,38	2,27

4. composition of the product

Tableina 2

Name	Obcatacheni	Re- stivo	Note
Obnsti kinostenochny 180K1-8-1	ok01-59-4.000	1	
Lens Hood	OKC1-52-1.065	1	
Tmst KHK No.	TU17 RSFSR 18-7197-76	1	
4 White flannel, 50x50 sk	gost 7350-76	1	
Case	ZR 1290.000	1	
Lens of photography OKA-130-1	OX0-450-1,000	1	
Lens Hood	OKC9-150-1,019	1	
Kiet KHK No. 4	Tu17 rofsr 18-7107-76	1	
Flannel protein, 50x50 sk	gost 7350-77	1	
Case	ZR 1325.000	1	

4. СОСТАВ ИЗДЕЛИИ

Таблица 2

Наименование	Обозначение	Количество	Примечание
Объектив кинорычажный 160КС1-8-1	ОКС1-5,9-1,900	1	
Бленда	ОКС1-5,9-1,065	1	
Клеть КХК № 4	ТУ17 РСФСР 18-7197-76	1	
Фланель белая, 50×50 см	ГОСТ 7250-76	1	
Футляр	ЗН 1290,000	1	
Объектив кинорычажный 160КС9-150-1	ОКС9-150-1,000	1	
Бленда	ОКС9-150-1,019	1	
Клеть КХК № 4	ТУ17 РСФСР 18-7197-76	1	
Фланель белая, 50×50 см	ГОСТ 7250-77	1	
Футляр	ЗН 1325,000	1	

The service of Table 2

Name	Obozvachenie	Ro- stvo	Note
moskitostemochny	on017-20041.000	1	
Blend	ORC7-200-1.025	1	
Cap	ox7-2001087	1	
Brush KHK No. 4	TU17 197197-1C	1	
Flannel belan, belyy i krasnyy	gost 7256-17	1	
Futlar	20K 1327.000	1	
Obenka 160K06-300-1	ox6-300-1.000	1	
Blonde	oxo- 200-1421	1	
Brush KHK No. 1	TY17 18-7197-76	1	
Flannel bolan, belyy i krasnyy	gost 7253-71	1	
Case	2) 13:25.000	1	

Продолжение табл. 2

Наименование	Обозначение	Количество	Примечание
Объект жилищно-коммунальный 160КС7-200-1	ОКС7-200-1.000	1	
База	ОКС7-200-1.025	1	
Колпачок	ОКС7-200-1.087	1	
Клеть КХК № 4	ТУ 17 РСФСР 18-7197-76	1	
Фланель белая, 50×50 см	ГОСТ 7259-77	1	
Футляр	ЭК 1327.000	1	
Объект жилищно-коммунальный 160КС6-300-1	ОКС6-300-1.000	1	
База	ОКС6-300-1.021	1	
Клеть КХК № 4	ТУ 17 РСФСР 18-7197-76	1	
Фланель белая, 50×50 см	ГОСТ 7259-77	1	
Футляр	ЭК 1328.000	1	

5. arrangement of lenses

The appearance of the lens is shown in Fig. 1-4, Focusing is carried out by rotating the ring 1 (see Fig. 2-4) with a distance scale. The count is made relative to the index.

Lens 16OX1-6-1 (see fig. 1) does not have a distance scale. The design of the lens allows you to shoot objects that are located at a distance of 0.45 m to ∞. When shooting objects located at a greater distance, it is necessary to aperture the object.

Defocusing is carried out by the joint of ring 2 (see Fig. 1-4) with a scale of effective release holes. On the invoice is made relative to index.

To protect from the back of the light, a hood 3 is used (see Fig. 2-4), fixed on the body of the object with a thread.

The lens is attached to the video camera by means of a bayonet. There is a shronka on the bayonet for the correct installation of the lens into the device.

To protect the optical surfaces from damage, protective caps 4 are provided.

6. marking :

6.1. The lens body is engraved with:

symbol of the lens;

the aperture number of the largest geometric relative hole and the focal length plotted as a fraction;

the lens number;

trademark of the manufacturer.

6.2. The case has a nameplate on which

applied:

trademark of the manufacturer;

conditional designation of the lens,

7. packaging

For storing and transporting lenses

, cases are designed, lined with soft material from the inside. In the case together with the lens, the accessories, passport and technical description are stored.

8. the procedure for installing the lens in the camera and preparing the crab

8.1. Before installing the lens in the camera remove the rear protective cap and insert the object into the socket of the object holder so that the mount of the bayonet enters the socket. Remove the front sewing cap. Install an auto-collimator with a focal length in front of the lens, exceeding- We increase the focal length of the object by at least two times (F-500 mm for the 16OKC6-300-1 lens).

In the frame window of allarag, install a flat mirror. Make sure that the values of the distance scale of the object and the distance scale of the autocollimator (for the lens 16OX1-6-1, the distance on the chip of the autocollimator should be 0.9 m) match according to the sharp image of the world. In case of a mismatch, check the working position of the device, bring it in accordance with the documentation for the device.

8.2. Before taking photos, put a lens hood on the lens.

9. maintenance

9.1. Before installing the object in the filming device it is necessary to make an external inspection of it. The object should not have visible traces of damage: scratches, dents, chips on the lenses. The scales should rotate smoothly, without jamming.

9.2. Contamination of all optical surfaces, cracks-during operation, it should be cleaned with a cotton swab (GOST 10477 75), wound on a wooden stick with a mixture of ethyl rectified alcohol (GOST 18300-72) and petroleum ether grade 10 70 (TUB-1241-83).

Optical surfaces should be cleaned with circular movements, gradually moving from Lisa's body to her edges.

Dust from the external optical surfaces should be removed with a brush available in the kit of the object, degreased in pure ether. External metal surfaces may be cleaned with a cotton cloth soaked in gasoline.

9.3. In order to avoid fogging of optical parts, when the lens is brought from the cold into a warm room, it is impossible to open the case immediately, it is necessary to give the lens the opportunity to warm up in a closed case.

9.4. The lens is not subject to disassembly under operating conditions.

Maintenance of the lens is carried out in the workshop of shooting equipment. Repairs during the warranty period in compliance with the rules of operation, transportation and storage are carried out at the manufacturer's enterprise.

10. storage and transportation rights

10.1. Lenses must be stored in cases in a dry ventilated room, free from acid vapors, alkalis and other substances that can cause damage to the object.

The air temperature in the hangout should be from $+5$ to $+10$ °C. The relative humidity should not exceed 95% at a temperature of 25 °C.

10.2. Transportation of lenses in cases is allowed by all types of covered transport for any distance at ambient temperature from minus 50 to +50 °C.

When transporting lens cases, it is necessary to protect them from falling,

vikshnia lens type 160X1-6-1

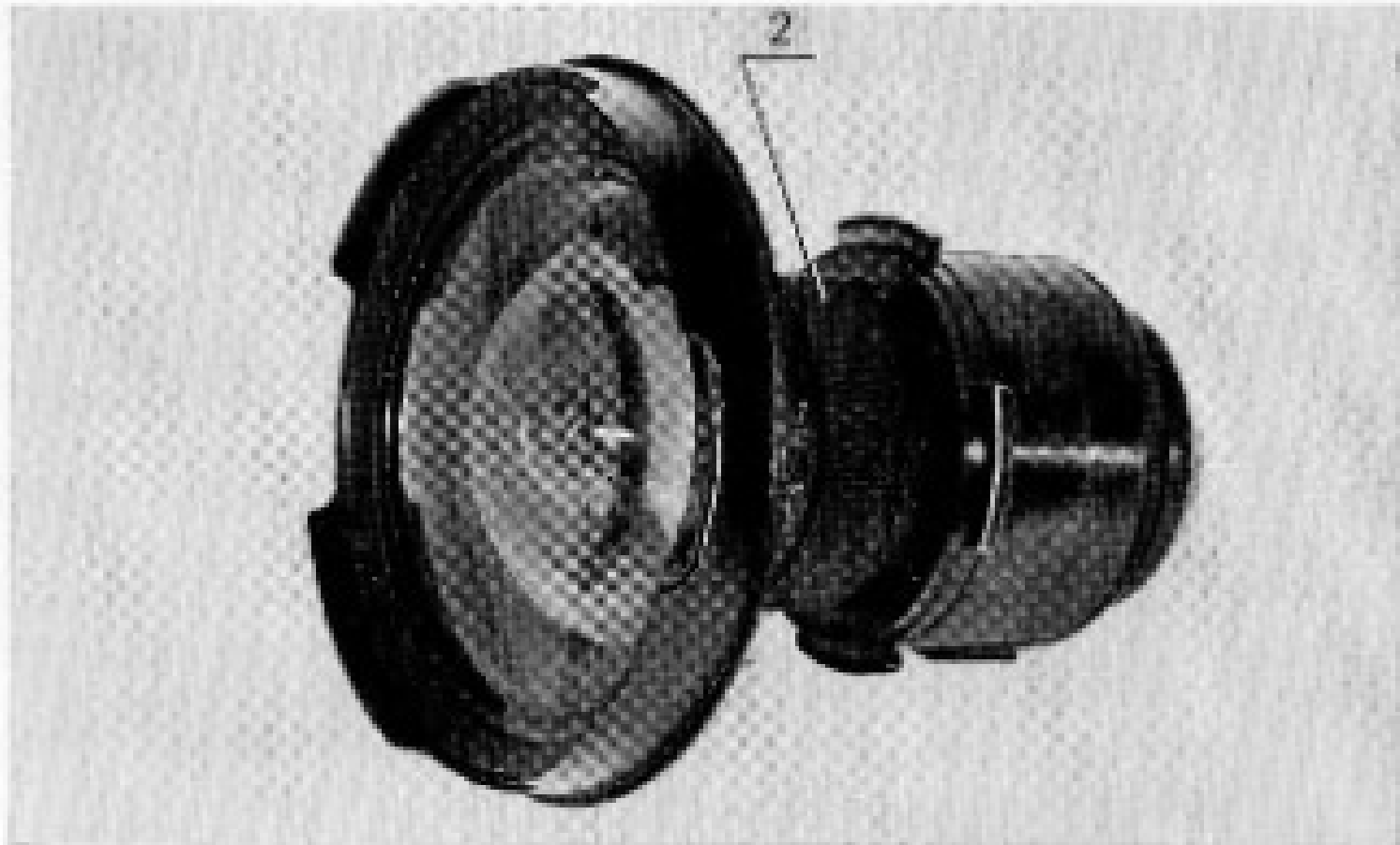


Рис. 1

2 ring with a scale of effective otvospelnye holes.

appearance of the lens 160x9-150-1

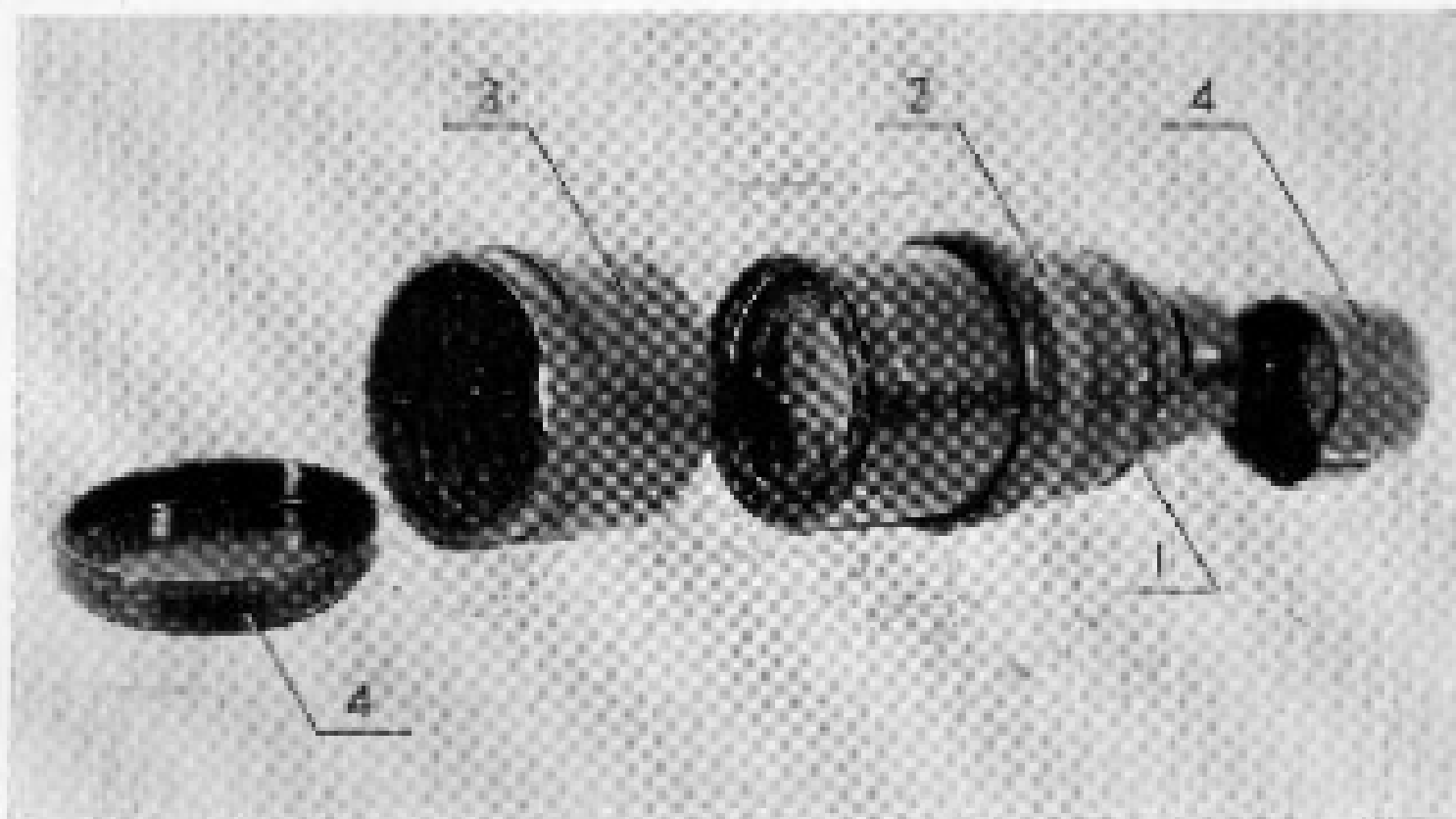


Рис. 2

1 — корпус с дистанционной шкалой; 2 — соловей эффективные
относительные отверстия; 3 — ганг; 4 — заглушки,

appearance of the lens 160KC7-200-1

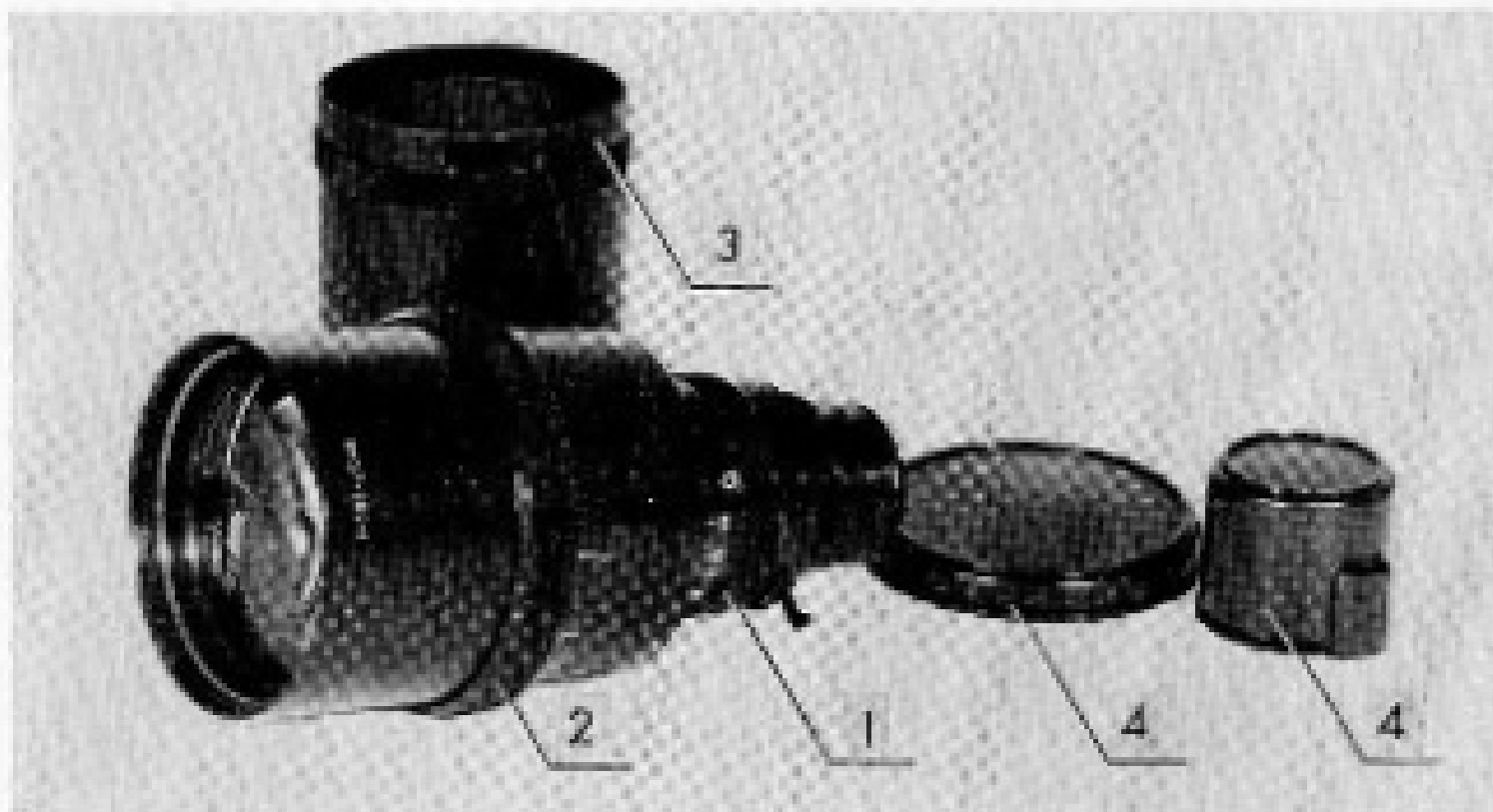


Fig. 3

1 — if with a distance scale; 2 — a hole with an internal scale of effective relative holes; 3 — base; 4 — protective caps,