

The gated viewing night vision binocular

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Electro- ptical scheme and technical details of portative Gated Viewing Night Vision Binocular are presented. Recognition distance of man figure in passive mode at star night conditions is reached up to 500 m and in active-impulse mode – up to 800 m. Binocular’s field of view is equal to 10° in passive mode and 1,5x0,75° in active-impulse mode. Accuracy of range determination is equal to ±10 m. Mass of device is less than 1.2 kg, DC power supply voltage equals to 12 V and consumption 5 W.

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[3],

40°.

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2/3 ,

6-

[1].

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[2],

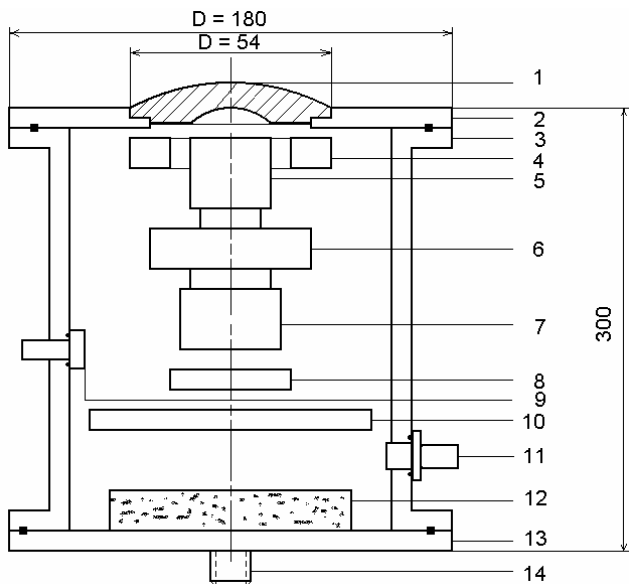
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..... 582×752
 , 3,6×4,8
 , 1/100000—2,5

 - , ° -20
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 (×), Ø 250×300
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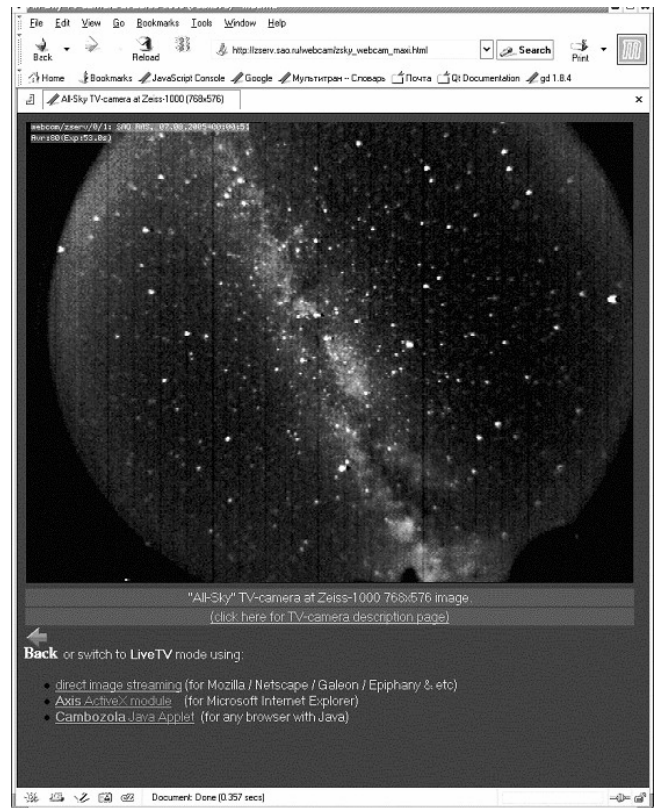
. 2. - " " :
 1 — ; 2 — ; 3 — ;
 4 — ; 5 — $f = 3,5$, $F1.4$;
 6 — ; 7 — ;
 VNI-743-127; 8 — ; 9 — ; 10 —
 ; 11 — ; 12 — ; 13 — ;
 14 —

VNI-743 127 (127×0,02).

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Web- (All-Sky) Web-

(. 3).



. 3. Web-

1/100000
 127×0,02 .

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1999 Gerd Knorr (webcam (C) ,
 JPEG- ftp).
 JPEG-

106×80, 320×240 768×576
 255
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80 (1)

VNI-743 ()

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bta_sky,

RA/Dec,

FK5.

FK5.

JPEG-

" PNG-

Web-

webcam,

bta_sky,

RA/Dec,

FK5.

JPEG-

" PNG-

Web-

zserv.sao.ru.

proxy- Web- 30

320×240.

15

60

320×240

2,5

1.

2. Komarov V. V., Vitkovskij V. V., Vlasyuk V. V., Fomenko A. F., Shergin V. S. A digital TV-complex of the 6 m optical telescope BTA for identification of astronomical objects and guiding//Bull. Spec. Astrophys. Obs. 2002. 53. 134—143.

3. Komarov V. V., Vitkovskij V. V., Fomenko A. F., Fomenko N. A., Shergin V. S. Inside/Outside dome monitoring video system of the 6m optical telescope BTA//Bull. Spec. Astrophys. Obs. 2002. 54. 134—139.

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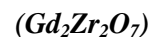
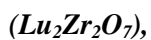
30 2006 .

TV-system "All Sky" for real-time remote monitoring of night cloud condition

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The system is intended for real-time remote computer control of cloud condition during observations with the optical telescopes of SAO simultaneously all over the sky hemisphere at the 6 m telescope site environment. This work demonstrates technical problems of constructing such systems. The technical parameters of the system devices are given along with description of its work principle.

681.7.02



15].

[1—

[4, 6].

[7, 11].

[13]