

IR viewer accessories



Contents

1. Iris diaphragm	2
2. Neutral density filter	2
3. Microscope adapter.....	3
4. Facemask for hands free operation	4
5. IR illuminator (800nm, 940nm)	4
6. Camera adapter for V1 and V2 viewers	5
7. Video adapter for V1 and V2 viewers.....	5
8. Lens 2x	6
9. Lens 1X.....	7
10. Adapter to AAA type batteries for V3 viewer.....	7
11. Price list.....	8

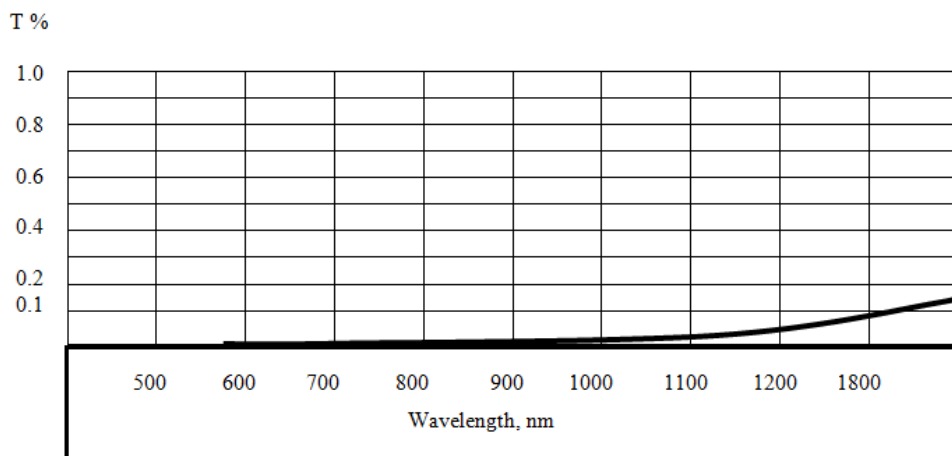
1. Iris diaphragm

Enables user to control light intensity, which radiates on IR viewer's detector surface. It is an option to use with F1,4/26 mm and F1,6/ 26 mm lenses. Diaphragm has 2-20 mm level adjustable aperture and fixing screw.



2. Neutral density filter

It is used to decrease high power radiation from solid -state lasers for example. YAG transmission is about 3-5 % at 1064 nm wavelength.



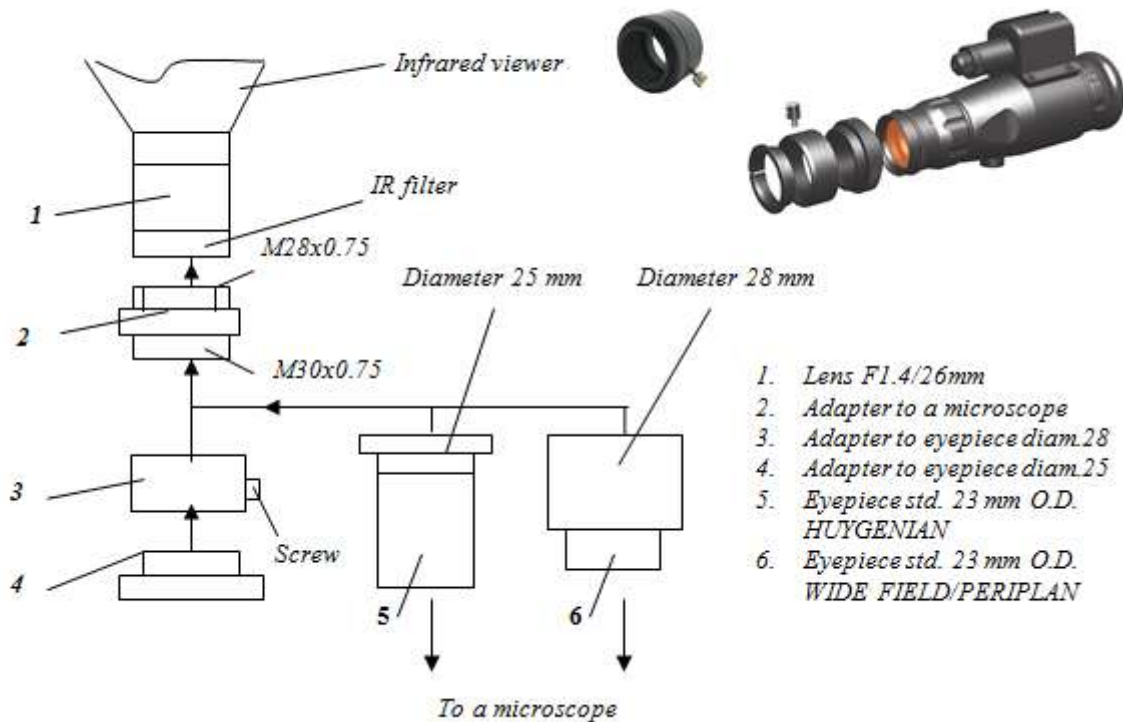
Transmittance spectra of neutral density filter



3. Microscope adapter

Interfaces between microscope eyepiece and objective lens of IR viewer.

The adapter to a microscope is arranged between the objective lens F1.4/26 mm of the infrared viewer (Abris-M, SM-3R, CONTOUR camera) and microscope eyepiece (international standard 23 mm O.D.) for use in infrared microscopy.



Microscope adapter mounting scheme

4. Facemask for hands free operation

Specially designed face mask are fully adjustable with flip up mechanism. With a left/right eye rail adjustment for monocular type IR viewers.



5. IR illuminator (800nm, 940nm)

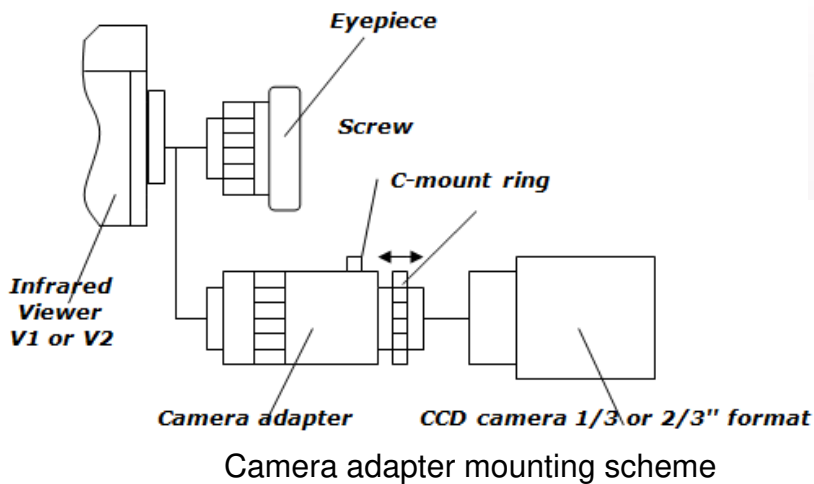
Device designed to increase the contrast of infrared images.



SPECIFICATIONS		
Model	IRIL 900	IRIL800
Power of radiation	30 mW	80mW
Wavelength of radiation	900+/-5 nm	800+/-5 nm
Angle of radiation	20 degrees	
Max. operation distance	20 m	
Power supply	3 V, 2 AAA batteries	
Battery life	4 hours	
Weight	50 g	
Dimensions	(L) 90 mm x (D) 30 mm	

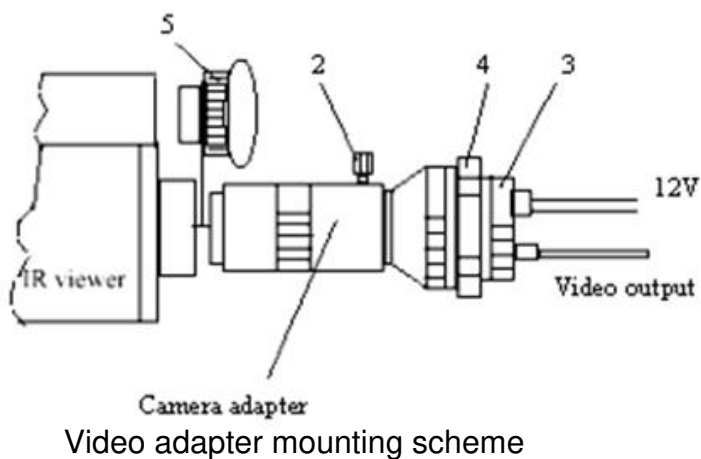
6. Camera adapter for V1 and V2 viewers

Camera adapter interfaces between IR viewer and CCD camera (C standard).



7. Video adapter for V1 and V2 viewers

Device is designed for viewing and recording images in real time. Relay lens transmit image from the screen of image converter to CCD camera (570 TV lines, 1/3") without any distortion.



SPECIFICATIONS	
Signal format	CCIR or EIA
System resolution (centre)	300 TV lines
S/N ratio	>48 dB
Distortion of image on edge	<18%.
Video output	RCA connector
Power requirement	10...12V DC, 120 mA max.
Dimensions	L 99 mm x D 55 mm
Weight	200 g

8. Lens 2x

This lens provides 2x for V1 and V2 viewers and 3,5x for V3 viewers magnification and high-grade image.



SPECIFICATIONS	
Focal distance	50 mm
Relative aperture max	1:2
Relative aperture min	1:16
Field of view	20 degrees
Min. focusing distance	0.35m, 0.15m with distance ring
Mount	M28X0.75 or C-mount
Weight	140 g
Dimensions	34.5x66 mm

Kit includes: lens with built-in iris, distance ring and IR cut-off filter.

9. Lens 1X

This lens provides excellent image quality. It is optimized for working in NIR

SPECIFICATIONS	
Focal distance	26 mm
Relative aperture	1.4
Field of view	35degrees
Focusing range	0.2m to inf.
Mount	M28X0.75
Dimensions	(42x31.8) mm



Kit includes: lens, IR cut-off filter.

10. Adapter to AAA type batteries for V3 viewer

Adapter to AA A type batteries is designed for V3 viewer to increase continuous operation time up to 100 hours.

