

INFRARED VIEWERS: AEO-IRV60

Jan-2023

High performance image conversion IR viewers (handhelds) used to observe indirect radiation of infrared light sources with wide spectral range 350 – 2000 nm

Infrared viewers focus emitted or reflected light into the image tube where electron image is generated. When powered (battery or power supply), a 16-18 kV voltage is generated to accelerate the electron image into the output phosphor screen. The fluorescent green light output (550 nm) is observed via an adjustable eyepiece lens.



Specifications	AEO-IRV60-1x	AEO-IRV60-2x
Spectral sensitivity	350-1300 / 350-1700 / 350-2000 nm	
Resolution (centre)	60 Lp/mm	
FoV	40º	20º
Magnification	1X	2X
Objective lens	F1.4/26mm	F1.8/50mm
Adjustable iris	option	included
Focus	0.15m (0.05)* to inf	0.25m (0.15)* to inf
Working distance of lens	12.5 (+/-0.2) mm	
Battery type	1-5V, 1xAAA	
Non-uniformity of screen	<20%	
Non-uniformity of response	<15%	
Distortion of image	<18%	
Battery life (cont.)	35 h	
External power supply	DC 3V, 30mA	
Weight	380 g	420 g
Size	140x78x52 mm	145x78x52 mm
Temp. range	-10 to +40 °C	
Tripod connection	R"1/4"	
Warranty	2 years	

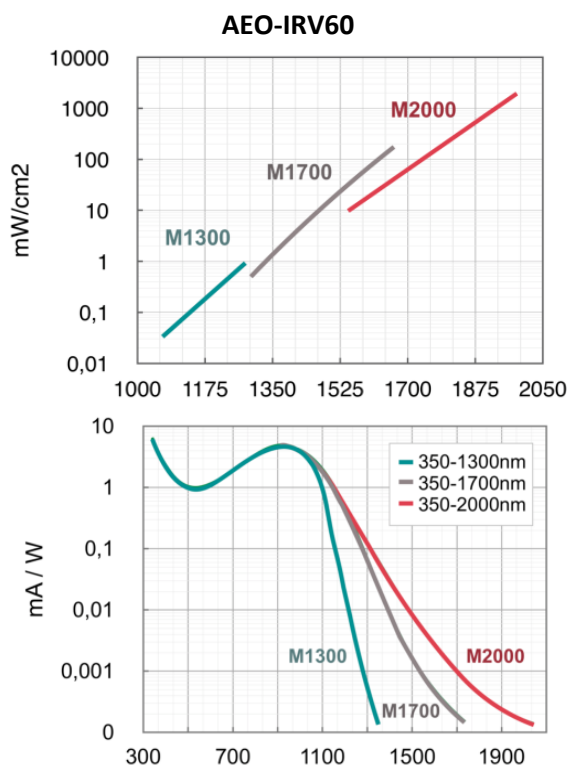
* with distance ring / ** with AAA batteries adaptor accessory (not incl.)

AEO-IRV60

- Handheld / post mounted
- Battery + DC powered
- Up to 35 h continuous working
- Pulsed and CW light detection without synchronization
- Connect to PC via video adaptor

	Range	Resolution	FoV	Magnification	Lens
AEO-IRV60-1300-1x	350-1300 nm	60 Lp/mm	40°	1x	F1.4/26mm
AEO-IRV60-1700-1x	350-1700 nm				
AEO-IRV60-2000-1x	350-2000 nm				
AEO-IRV60-1700-2x	350-1700 nm		20°	2x	F1.8/50mm
AEO-IRV60-2000-2x	350-2000 nm				

Approximate minimum power density required to view an IR laser beam at 1m distance



Spectral sensitivity

Included in delivery:

AEO-IRV60-yyy-1x	AEO-IRV60-yyy-2x
- IR viewer	- IR viewer
- Lens 1x	- Lens 2x
- IR filter	- IR filter
- Handle	- Distance ring
- Battery and case	- Handle
	- Battery and case

Accessories:

AEO-ND	Neutral density filter to lens (3-5% @1064nm)
AEO-FM-1	Facemask for hands free operation of AEO-IRV60
AEO-CCD-CA	C-Mount Camera adapter to AEO-IRV60
AEO-VA-1	Video adapter VA-1 to AEO-IRV60
AEO-2X	Lens 2X (F1.8/50mm)
AEO-1X	Lens 1X F(1.4/26mm)
AEO-DR	Macro/distance ring to lens 1X
AEO-CM28	C-mount ring for any CCD lenses