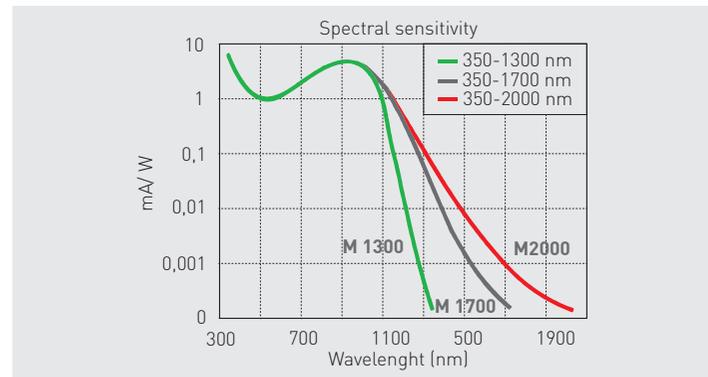


Infrared (IR) viewers ABRIS M



Infrared (IR) viewers are used to observe, register and record both indirect and direct radiation of IR lasers, light emitting diodes (LED's), dye and other IR-sources. It is ideal for IR-laser beam alignment and inspection, optical fiber alignment, telecommunications, solar panel inspection, photo processing, surveillance and investigation in botany, biophysics, medicine, forensics and art restoration, infrared microscopy, fluorescence etc.

High performance image conversion infrared (IR) viewers based on high-grade image converter are designed to observe indirect radiation of infrared laser, light emitting diodes (LED), dye and other IR-sources in 350 – 2000 nm spectral range.

(IR) Infrared viewer is based on a first-generation high-grade image converter that has an electro-static focusing system, photocathode S-1+ with increased concentration of oxygen and screen of type P-20 with maximum of luminescence at 550 nm.

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

Main features

- Spectral region 350 - 2000 nm
- Resolution 60 Lp/mm
- Hand-held / post mounted
- Battery + DC powered
- Up to 35 hours continuous working
- Pulsed and CW light detection

Application examples

- Laser alignment and safety
- Semiconductor inspection
- Forensics and art restoration
- Photo processing
- Thermal imaging

Specifications

IR-VIEWERS ABRIS M SERIES SPECIFICATIONS	
Resolution (centre)	60 Lp/mm
Working distance of lens	12.5 (+/-0.2) mm
Battery	1.5V, 1x "AAA" size
Non-uniformity of screen	< 20 %
Non-uniformity of response	< 15 %
Distortion of image	<18 %
Battery life (continuous)	35 hours
External power supply	DC 3V, 30 mA
Weight	0,4 kg
Dimensions	140 x 78 x 52 mm
Temperature range	-10 °C ... 40 °C
Tripod or handle connection	R"1/4"

Standard products

SPECTRAL SENSITIVITY	FIELD OF VIEW	MAGNIFICATION	OBJECTIVE LENS	ADJUSTABLE IRIS	FOCUS	SKU
350-1300 nm	40°	1X	F1,4/26 mm	Available	0,15m (0,05m) to inf, (with distance ring)	7654
350-1300 nm	20°	2X	F1,8/50 mm	Included	0,5m (0,15m) to inf, (with distance ring)	7656
350-1700 nm	40°	1X	F1,4/26 mm	Available	0,15m (0,05m) to inf, (with distance ring)	7404
350-1700 nm	20°	2X	F1,8/50 mm	Included	0,5m (0,15m) to inf, (with distance ring)	7657
350-2000 nm	40°	1X	F1,4/26 mm	Available	0,15m (0,05m) to inf, (with distance ring)	7655
350-2000 nm	20°	2X	F1,8/50 mm	Included	0,5m (0,15m) to inf, (with distance ring)	7658

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