

Infrared Viewer ABRIS-M

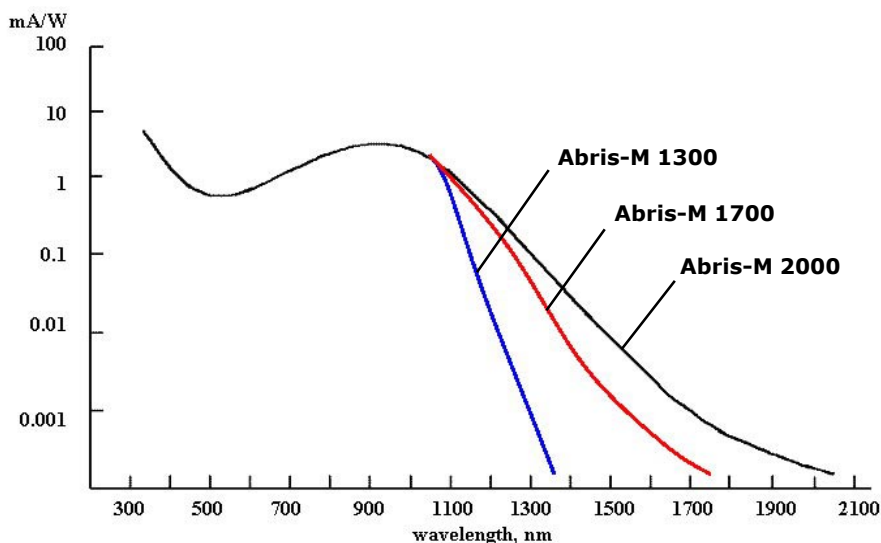
The ABRIS-M series are high performance infrared viewers designed to observe radiation emitted by infrared sources in the 270-2000 nm spectral region. The lightweight, compact device can be used hand-held, post mounted with the 1/4-20 internal thread or face mask mounted for hands free operation. The infrared viewers have autonomous 1.5V supply from one AAA battery and plug for external 3V supply for any OEM applications.

SPECIFICATIONS



	VERSION 1	VERSION 2
Spectral sensitivity:	Abris-M 1300 350-1300 nm Abris-M 1700 350-1700 nm Abris-M 2000 350-2000 nm	
Resolution (center)	60lp/mm	60lp/mm
Field of view	40 degrees	20 degrees
Magnification	1X	2X
Objective lens	F1.4/26 mm without iris	F2/50 mm with iris
Focus	0.15m to inf.	0.15 to inf.
Battery	1.5V «AAA» type	
Battery life (continuous)	35 hours	
Input voltage from external power supply	DC 3V, 20 mA max.	
Weight	0.38kg	0.42kg
Dimensions	155x78x55 mm	220x78x55 mm
Temperature range	-10°C...+40°C	

SPECTRAL SENSITIVITY



Accessories available upon request:

1. Facemask for hands free operation.
2. Infrared illuminator 800nm, 900nm wavelength.
3. Neutral density filter (2-5% at 1.064nm laser wavelength).
4. Camera adapter to a CCD camera.
5. Microscope adapter.
6. Iris diaphragm to lens 1X.
7. Video adapter VA-1

Standard kit includes: IR viewer, IR filter, handle, battery, case.

DEL MAR PHOTONICS

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Ultraviolet-infrared viewer ABRIS

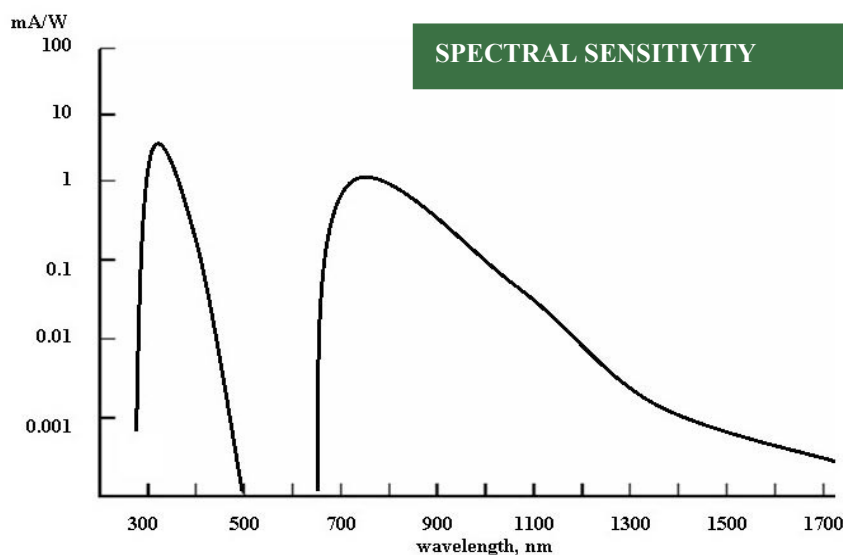
APPLICATIONS

UV application:

Excimer lasers alignment
Chemical analysis
UV lithography
Examining coatings and UV optics

IR applications:

Laser diagnostic
Fiber optic alignment
Film development in photo labs
Surveillance and investigations
IR microscopy and spectroscopy



SPECIFICATIONS



Spectral sensitivity	270...500nm and 650...1700nm
Resolution (center)	30lp/mm
Field of view	20 degrees
Magnification	1X
Objective lens	F1.6/26mm quartz without iris
Focus	0.15m to inf.
Battery	1.5V «AAA» type
Battery life	35 hours
Input voltage from external power supply	DC 3V, 20 mA max.
Weight	0.38kg
Dimensions	155x78x55 mm
Temperature range	-10°C...+40°C

Accessories available upon request:

1. Facemask for hands free operation
2. Neutral density filter
3. CCD camera adapter
4. Microscope adapter
5. Iris diaphragm to lens 1X
6. Video adapter VA-1

Standard kit includes: UV/IR viewer, UV/IR filter, handle, battery, case

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Infrared viewer SM-3R

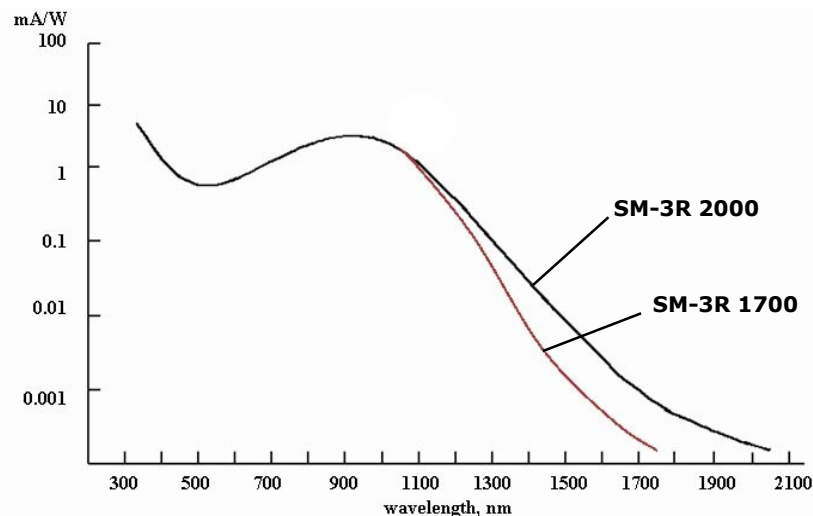
The SM-3R is a high performance miniature infrared viewer fit comfortably in the palm of hand and is ideal for applications involving the alignment of infrared beams or optical fibers in a near-IR system. Users may also mount the viewers on a post via the 1/4-20 internal threads, or they may use them as hand-held devices. SM-3R infrared viewers are available in two versions: one with a spectral sensitivity that extends from 350 to 2000nm and one with a 350 to 1700nm spectral sensitivity.

SPECIFICATIONS



Spectral sensitivity	350...1700 nm 350...2000 nm
Resolution (center)	50 lp/mm
Field of view	25 degrees
Magnification	1.8 x
Objective lens	F1.4/26 mm
Focus	0.15 m to inf.
Battery	3V, 2 LR44 type
Battery life continuous	18 hours (typical)
Dimensions	(130 x 65 x 43) mm
Weight	0.28 kg
Temperature range	-10...+40°C

SPECTRAL SENSITIVITY



Accessories available upon request:

1. Facemask for hands free operation.
2. Infrared illuminator (810nm, 950 nm).
3. Neutral density filter (YAG filter).
4. Iris diaphragm.
5. Lens 3.5X, F2/50mm with iris, IR filter and distance ring.
6. Adapter to AAA batteries.

Standard kit includes: IR viewer, IR filter, handle, battery and case

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INFRARED ILLUMINATORS

The IR-530 is an infrared illuminator designed to be used with CCD cameras and infrared viewing devices for increase of contrast of infrared images and also for all darkroom applications. Incorporated infrared LED (light emitting diode) is completely safe for eyes

SPECIFICATIONS



	IR-530-900	IR-530-800
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 x D) 90 x 30 mm	

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