

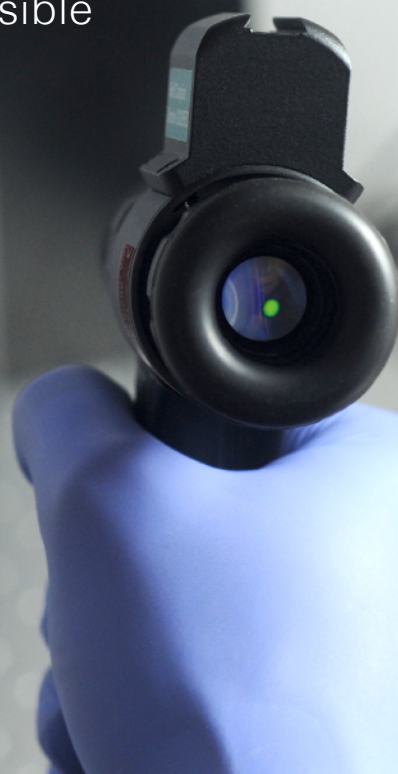
ABRIS M series

M1300
M1700
M2000

Converts 350-2000nm
radiation to visible

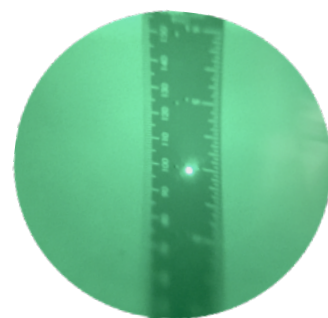
Applications:

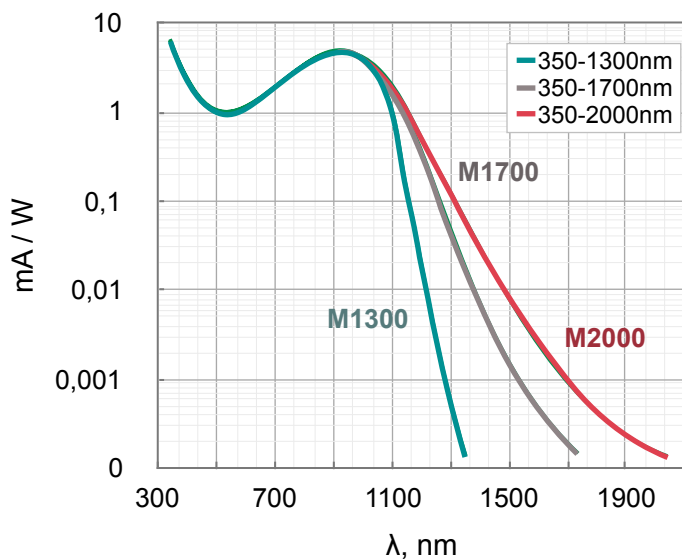
- Location and alignment of Nd:YAG, Yb:YAG, Yb:KGW, Ti:Sapphire and other IR lasers
- Identification of stray IR reflections
- Observation of GaAs laser diodes, IR LED's, dye and other IR-sources
- Forensic analysis on inks, pigments



Main features:

- Wide spectral region 350 – 2000 nm
- Lightweight and ergonomic design
- High contrast
- High sensitivity
- Excellent image quality
- Hand-held / post mounted
- Works with C-mount lenses (with adapter)
- Battery (35 hours continuous working) + DC powered
- Pulsed and CW light detection without synchronisation
- Connects to PC via video adapter
- Interfaces to CCTV cameras



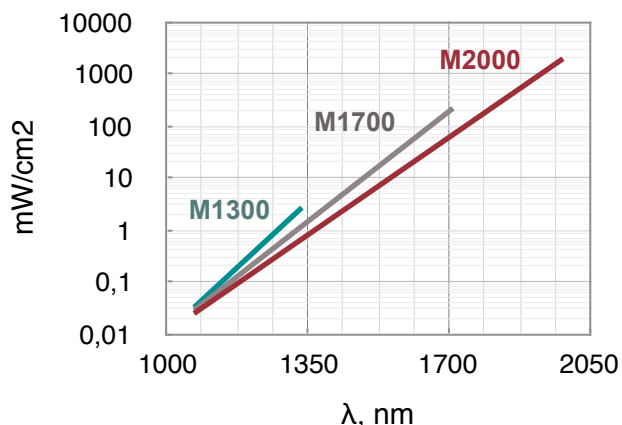


How does it work?

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.

Power density

Approximate minimum of power densities required to view an infrared laser beam from a distance of one meter:



Accessories available

- Iris diaphragm (for F1.4/26mm)
- Neutral density filter to lens 1X (3-5%@1064nm)
- Neutral density filter to lens 2X (3-5%@1064nm)
- Microscope adapter
- Facemask for hands free operation
- IR illuminator 940nm, 800nm

Technical parameters

Version	Abris-M 1 (1X)	Abris-M 2 (2X)
Spectral sensitivity	Abris-M 1300 (350-1300nm)	Abris-M 1700 (350-1700nm)
	Abris-M 2000 (350-2000nm)	
Resolution (center)	60 Lp/mm	60 Lp/mm
Field of view	40°	20°
Magnification	1X	2X
Objective lens	F1.4/26mm	F1.8/50mm
Adjustable iris	Available	Inlcuded
Focus	0,15m (0,05m)* to inf	0,25m (0,15m)* to inf
Working distance of lens	12.5 (+/-0.2) mm	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 (continuous)	35 hours	
External power supply	DC 3V, 30 mA	
Weight	0.38kg	0.42kg
Dimensions	140x78x52 mm	145x78x52 mm
Temperature range	-10°C...40°C	
Tripod or handle connection	R" 1/4"	
* with distance ring		

ABRM-1300-1	ABRM-1300-2
ABRM-1700-1	ABRM-1700-2
ABRM-2000-1	ABRM-2000-2

- C-mount Camera adapter
- Lens 2X (F1.8/50mm)
- Lens 1X F(1.4/26mm)
- Distance ring
- C-mount ring for any CCD lenses
- Video adapter VA-1