

# ABRIS M Series IR Viewer

## Converts 350-2000nm radiation to visible

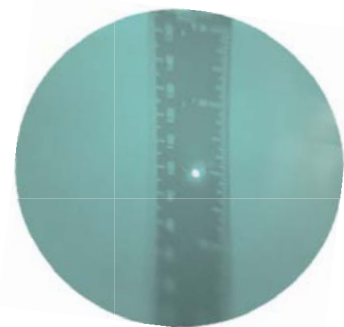
### Applications:

- 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

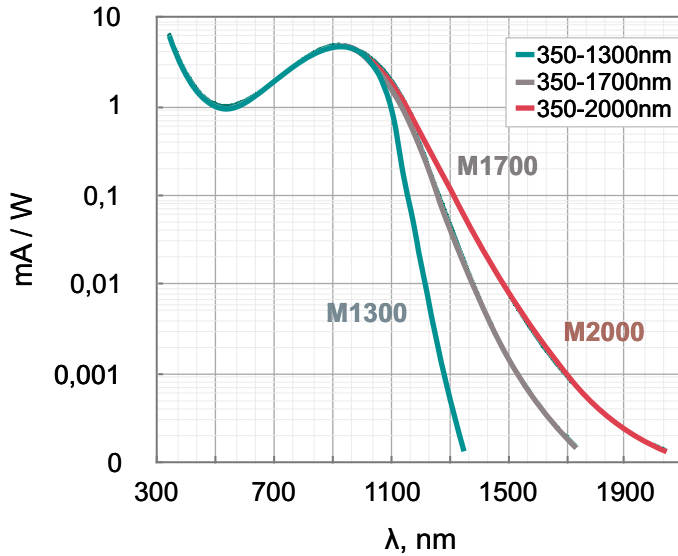


### Main features:

- 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



**RoHs** 

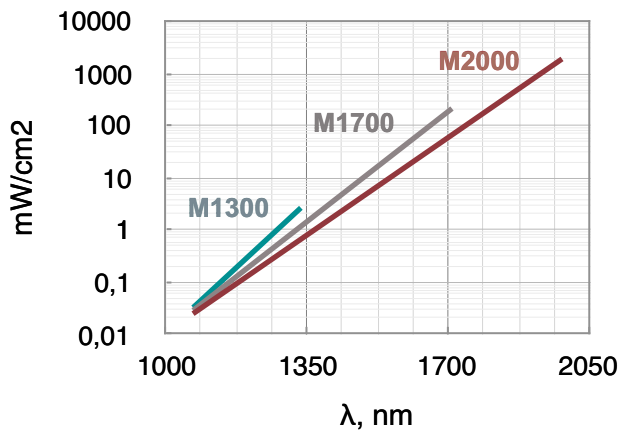


### How it works

The Infrared viewer focuses emitted or reflected light from the subject into an S-1+ photocathode image intensifier tube where an electron image is generated. When powered (with battery or power supply) a 16-18 kV voltage is applied across the tube to accelerate the electron image towards an output P-20 phosphor screen. The phosphor screen emits an image in the visible (green light at 550 nm) to be 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:



### Technical parameters

| Version                     | 1 (1X)                   | 2 (2X)               |
|-----------------------------|--------------------------|----------------------|
| Spectral sensitivity        | ABRM-1300-x (350-1300nm) |                      |
|                             | ABRM-1700-x (350-1700nm) |                      |
|                             | ABRM-2000-x (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                | Included             |
| Focus                       | 0.15m (0,05m)* to inf    | 0.5m (0,15m)* to inf |
| 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 | £1,310 |             |        |
| ABRM-1700-1 | £1,351 | ABRM-1700-2 | £1,411 |
| ABRM-2000-1 | £1,452 | ABRM-2000-2 | £1,513 |

All prices are ex. VAT and subject to change without notice

### Accessories available

|   |      |
|---|------|
| Neutral density filter to lens 1X (3-5%@1064nm) | £90  |
| Neutral density filter to lens 2X (3-5%@1064nm) | £94  |
| Microscope adapter                              | £118 |
| Facemask for hands free operation               | £323 |
| IR illuminator 940nm, 800nm                     | £238 |

|                                      |      |
|--------------------------------------|------|
| C-mount Camera adapter               | £238 |
| Lens 2X (F1.8/50mm)                  | £323 |
| Lens 1X F(1.4/26mm)                  | £251 |
| Distance ring                        | £35  |
| C-mount adapter for any C-mount lens | £35  |
| Video adapter VA-1                   | £491 |