

# Infrared Viewer ABRIS-M

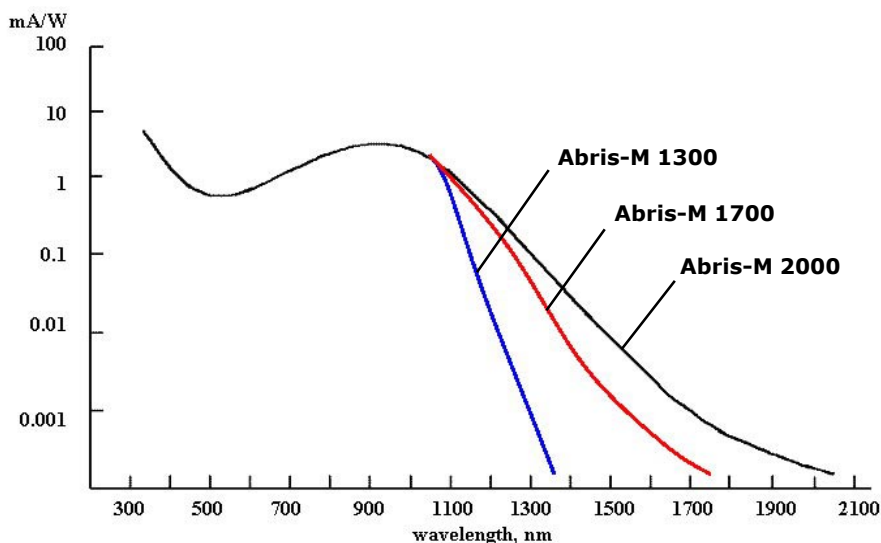
The ABRIS-M series are high performance infrared viewers designed to observe radiation emitted by infrared sources in the 270-2000 nm spectral region. The lightweight, compact device can be used hand-held, post mounted with the 1/4-20 internal thread or face mask mounted for hands free operation. The 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<br>Abris-M 1700 350-1700 nm<br>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**

4119 Twilight Ridge, San Diego, CA 92130, USA Tel.: (858) 876-3133 Fax.: (858) 630-2376  
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# Ultraviolet-infrared viewer ABRIS

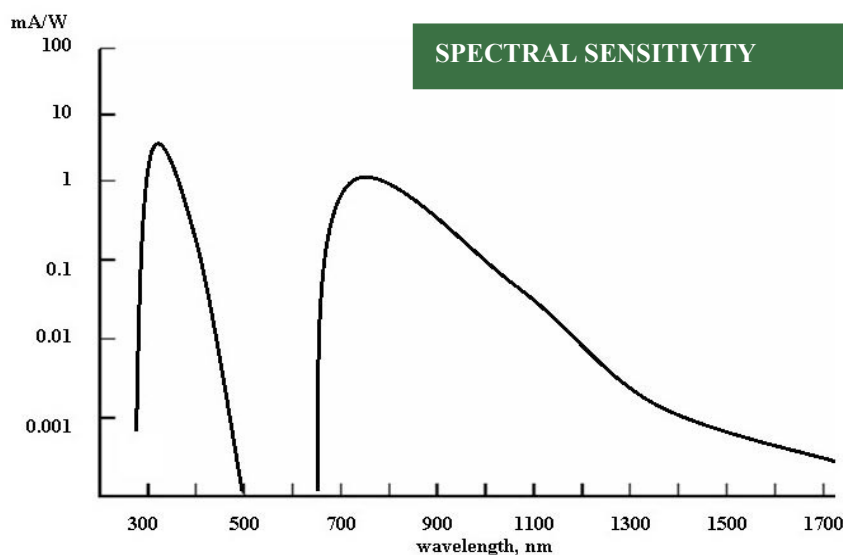
## APPLICATIONS

### 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

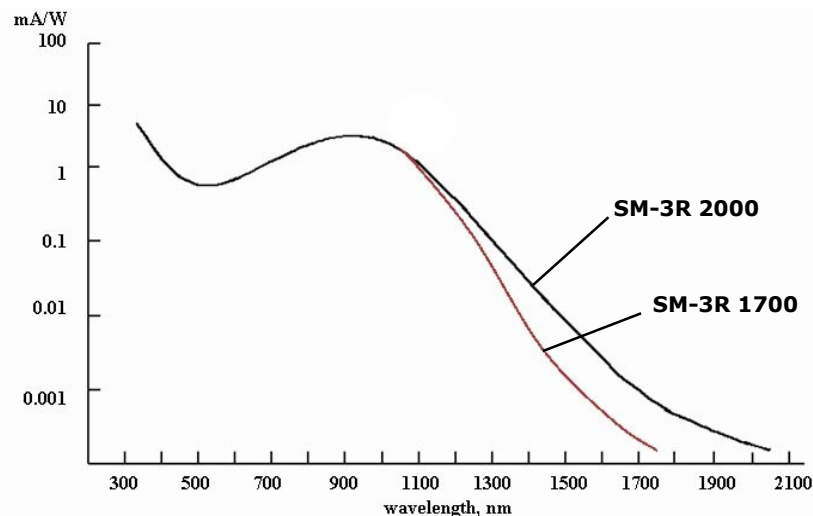
The SM-3R is a high performance miniature infrared viewer fit comfortably in the palm of hand and is ideal for applications involving the alignment of infrared beams or optical fibers in a near-IR system. Users may also mount the viewers on a post via the 1/4-20 internal threads, or they may use them 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<br>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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