



INFRARED VIEWERS SM3R

PRODUCT FEATURES

- ▲ Spectral region 350 - 2000 nm
- ▲ Compact design
- ▲ Battery powered
- ▲ Hand-held / post-mounted
- ▲ Up to 100 hours continuously working
- ▲ Pulsed and CW light detection

APPLICATIONS

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

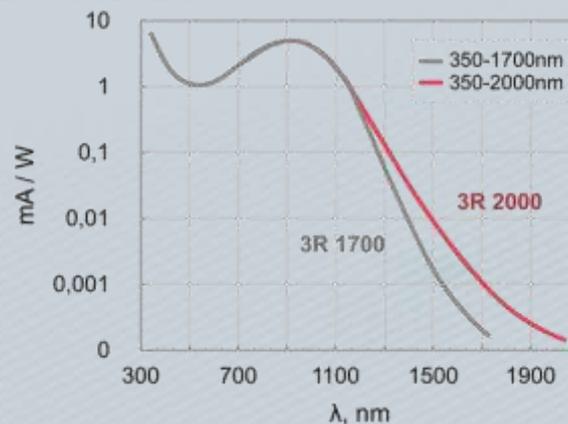
SCOPE OF SUPPLY

- ▲ IR viewer
- ▲ Lens F1.4/26mm or 1.8/50mm
- ▲ IR filter
- ▲ Pinhole (SM3R-1 only)
- ▲ Distance ring (SM3R-2 only)
- ▲ Handle, battery and case

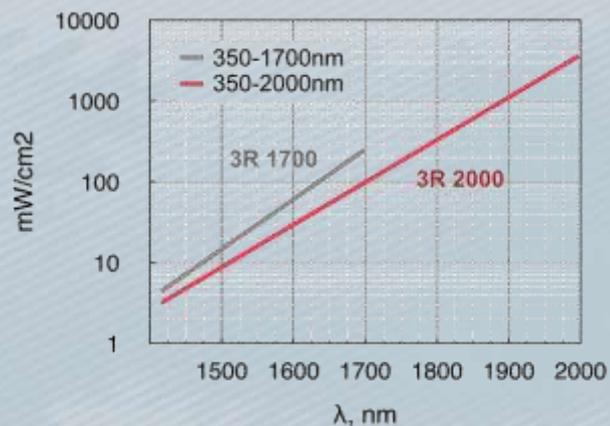
The high performance image conversion viewer SM3R based on a high-grade image converter is designed to observe indirect radiation of infrared lasers, light emitting diodes (LED), dyes and other IR-sources in the 350 - 2000 nm spectral region.

The SM3R viewer is a miniature, lightweight, compact device and can be used hand-held, post mounted with an internal 1/4-20 thread or face mask mounted for hands-free operation. The device allows viewing continuous laser radiation as well as pulsed laser radiation.

SPECTRAL SENSITIVITY



POWER DENSITY



Required minimum power density at 1 m distance

SPECIFICATIONS

Model	SM3R-1700-1	SM3R-2000-1	SM3R-1700-2	SM3R-2000-2
Spectral sensitivity	350 - 1700 nm	350 - 2000 nm	350 - 1700 nm	350 - 2000 nm
Resolution (center)	50 L/mm			
Field of view	25°		12°	
Magnification	1.8X		3.4X	
Objective lens	F1.4/26mm		F1.8/50mm	
Adjustable iris	Available		Included	
Focus	0.2m (0.05m)* to inf		0.6m (0.15m)* to inf	
Working distance of lens	12.5 (+/-0.2) mm			
Battery type	2xLR44 or CR1/3N			
Non-uniformity of screen	<20%			
Non-uniformity of response	<15%			
Distortion of image	<18%			
Battery life (continuous)	10 or 100** hours			
Weight	0.25kg		0.3kg	
Dimensions	130x65x43 mm		135x65x52 mm	
Temperature range	-10°...40°C			
Tripod or handle connection	R" 1/4"			

* With distance ring. For model 1, please order separately.

** With AAA batteries adapter. Please order separately.

AVAILABLE ACCESSORIES

- ▲ Iris diaphragm
- ▲ Neutral density filter to lens F1.4/26mm or F1.8/50mm (2%@1064nm)
- ▲ Microscope adapter
- ▲ Face mask for hands-free operation
- ▲ IR illuminator 940nm, 800nm
- ▲ Lens F1.4/26mm or F1.8/50mm
- ▲ Distance ring
- ▲ C-mount adapter for any C-mount lens
- ▲ AAA batteries adapter