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MiniC camera

The MiniC camera captures radiation within the 400-1900 nm spectral range, enabling detailed observation, registration, and recording in the near-infrared zone. It is ideal for infrared microscopy, luminescence studies, document analysis, forensics, art restoration (infrared reflectography), and instrument alignment applications. Equipped with a SONY sensor optimized for IR sensitivity, the camera features microlenses on photocells to enhance photon absorption and amplify pixel performance. The camera connects via USB-C and operates in a plug-and-play mode, compatible with Linux and Windows systems using universal drivers.



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:

- Operates up to 1900 nm
- High contrast and sensitivityRecording and snapshot
- capabilities
- USB-C connectivity
- Compatible with C-mount lenses
- Detects pulsed and continuous



TECHNICAL INFORMATION

	MODEL (1X)	MODEL (2X)
Spectral sensitivity	400-1900 nm	
Power densities for effective viewing:	5 mW/cm² at 1310nm 10 mW/cm² at 1500nm 200 mW/cm² at 1900nm	
Resolution (center)	30 Lp/mm	
Field of view	38°	19°
Magnification	1X	2X
Objective filter tread	F1.3/8mm M25.5x0.5	F1.4/16 mm M27x0.5
Objective thread	C-Mount 1"-32 UN	
Adjustable iris	Included	
Minimum object distance	0.1m to ∞ *	0.5m (0.15m) to ∞ *
Distortion of image	0.5%	
Video interface	USB - C	
Weight	0.11 kg	
Dimensions	45 x 45 x 27,5 mm	
Tripod thread	1⁄4"-20 UNC	

* - MOD can be customized upon request

Lenses 1X (F1.3/8 mm) and 2X (F1.4/16 mm) are exchangeable.

NB! Use only for laser beam alignment and observation of the beam from surfaces and not for direct light pointing to sensor.

For more information visit www.ir-viewers.com or contact us sales@ir-viewers.com



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Power density

dependance on wavelength. The threshold power density brightness (calculated as 255 × 20% = 51), in contrast measurements were taken with the camera positioned 1.15 meters away from the piece of paper.



pendence on power dif-ference from the minimum value. The power level of 0 signifies the theoretical minbeam spot becomes observ-able on a piece of paper. It's exhibits lower sensitivity to la-ser light at 1450nm compared to 1550nm or even 1900nm.





Approximate minimum power density required to observe an infrared laser source from a distance of one meter:

µW/cm² for a 1060 nm

µW/cm² for a 1300 nm

Neutral density filters transmission curves







BP 39 Filter Internal Transmittance 1 mm Thickness

BP 212 Filter Internal Transmittance 2 mm Thickness



80 LP760 Filter

