irvi infrared viewers

Handheld digital IR CAMERA

The Contour M offers significantly higher infrared sensitivity than conventional cameras, achieved through optimized photodiode surface area and depth, along with proprietary microlenses on each diode for enhanced light capture and focus. This design delivers a higher saturation signal, reduced smear and noise, and improved quantum efficiency in low-light conditions. Its automatic contrast control system boosts contrast up to 20 times, ensuring optimal observation across a wide range of illumination settings.

APPLICATIONS:

Location and alignment of

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Nd:YAG Yb:YAG, Yb:KGW,

Ti:Sapphire and other IR lasers

Identification of stray IR reflections

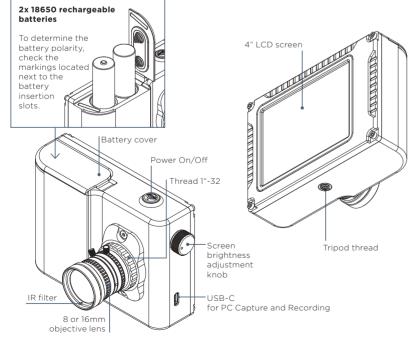
Observation of GaAs laser diodes,

IR LED's, dye and other IR-sources

Forensic analysis on inks, pigments

MAIN FEATURES:

- Built-in 4" LCD screen
- Operates up to 1900 nm
- High contrast and sensitivity(-70dB)
- USB-C Video Output for PC
 Capture and Recording
- Compatible with C-mount lenses
- Detects pulsed and continuous wave (CW) light
- Hands-FreeOperation
- 9 hours continuous working



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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% | |
| LCD Display | 4" LCD | |
| Video interface | USB - C | |
| Battery | 2 x 18650 batteries // Continuous operation for up to 9 hours | |
| Weight | 0.64 kg | |
| Dimensions | 134 x 90 x 42 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

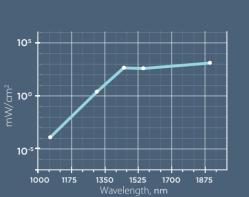


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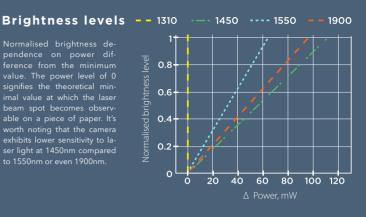
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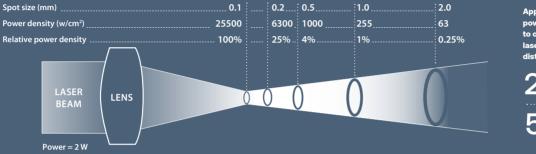
Power density

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.



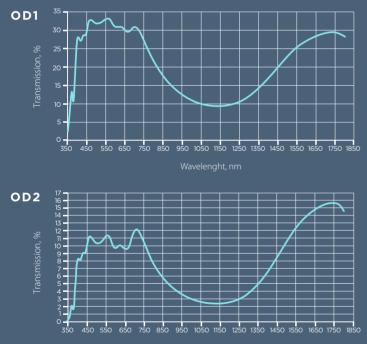


Approximate minimum power density required to observe an infrared laser source from a distance of one meter:

µW/cm² for a 1060 nm

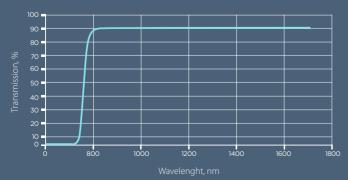
µW/cm² for a 1300 nm

Neutral density filters transmission curves

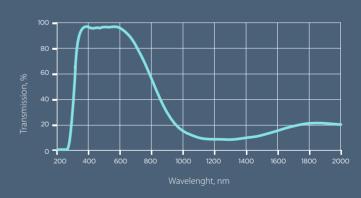








For optional use at higher than about 200 mW lasers (@1064nm) (does vary with wavelenght, refer to spectral sensitivity curve), you may consider using following filters to avoid sensor overfilling ("light flooding") issues and still ensure high visibility of your surroundings as the filter maintains high transmittance in the visible



BP 39 Filter Internal Transmittance 1 mm Thickness

BP 212 Filter Internal Transmittance 2 mm Thickness

