



## Sintec Optronics Technology Pte Ltd

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### IR Laser Beam Detector



A frequency-doubling material is coated on the glass surface. When an IR laser beam is illuminated on the coating material, the frequency of the IR laser beam will be doubled from IR to green wavelength. For 1064nm laser beam, the wavelength will be 532nm which is green.

#### Specifications:

Model number: IR-15x12  
 Base material: glass  
 Base size: 50x12x3mm  
 Coating material color: white  
 Coating area size: 15x12mm

### High Resolution Infrared Viewer

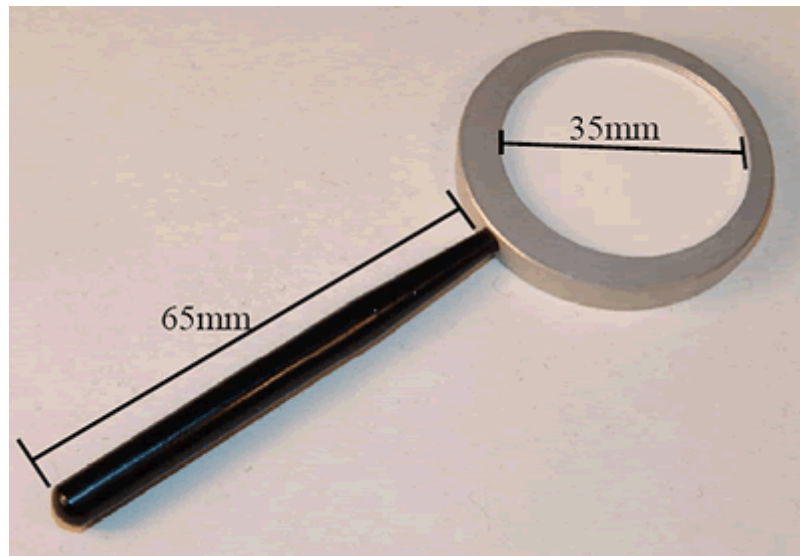


Our Infrared Viewers are designed to provide the highest resolution, longest service life and maximum performance possible in all applications of Fiber Optics, Bio-Chemistry Analysis, Laser beam Alignment and Verification, Semiconductor Inspection, Thermal Emissions, Film processing and Infrared Light Emitting Diodes.

#### PRODUCT SPECIFICATIONS:

Part number: STIR3150  
 Photocathode: Enhanced Multi-Alkali  
 Spectral Response: 0.3 to 1.55 Microns  
 Resolution: 60 lp/mm  
 Objective Lens: F-1.8 50mm  
 Weight: 500 grams  
 Dimensions: 153x116x101mm  
 Power Requirements: 9 V DC  
 Eyepiece: + or -5 Diopters

## STIRV – Beam Visualizer



Laser beam visualizers are designed for conversion of invisible near IR radiation of pulsed and CW lasers to visible spectral range. They reduce problems related with laser beam visualization, profiling and alignment in many applications.

The material of STIRV-R and STIRV-G special ceramic with anti-stokes luminophores. The STIRV-Q visualizers are made from organic polycrystals that provides conversion of Q-switched and mode-locked laser in visible light of SH harmonic.

Main advantages of our visualizers:

- High sensitivity
- High mechanical durability
- Radiation resistance
- Do not contain radiation sources
- Nontoxic under the influence of laser energy of high density

Model	STIRV-R	STIRV-G	STIRV-Q
Allowable average density, W/cm <sup>2</sup>	0,02-400	0,02-400	-
Allowable energy density, W/ cm <sup>2</sup>	0,02-1	0,02-1	0,1-1
Absorption band, nm	750-1085 1470-1600	850-1090	850-1400
Emission band, nm	Red (650-690)	Green (540-560)	Green
Max. Laser beam diameter, mm*	35	35	35

\*Diameter 15....50 mm (according to request)

It is advisable to use this tool at low energy levels to avoid any damaged that can occur as an impact or high absorption inside a sensitive material. As a consequence that would. Follow from the damage of the visualizer, the induced contamination cannot be avoided. In addition, the safety procedure for using this visualizer requires you to use protective Spectacles against IR radiation ( also available from Sintec Optronics). Please avoid any direct eye contact to IR light that can be scattered from the surface of the chemical deposition Layer or baseplate.