

# TECHNIQUIP



## High Intensity Fiber Optic Illuminator

### Highlights:

- High output light source (26,000+ Lux).
- Uniform & accurate illumination
- Low noise and vibration levels
- No additional charge for non U.S. line voltages
- Optional nose pieces are available

The model FOI-250 is a high intensity 250 watt fiber optic illuminator. It provides an extremely bright output for applications requiring high levels of illumination such as microscopy operations where polarization or other filters are required. This unit is specifically designed to meet the increasing demands of digital camera and video inspection applications.

The FOI-250 provides a 40% increase in light

output compared to a standard 150 watt fiber optic illuminator, offering an inexpensive alternative to xenon or metal halide illuminators.

As with Techniquip's other fiber optic illuminators, the FOI-250 provides uniform illumination of focused cold white light. The nose piece permits adding an optional filter holder for use with Schott glass filters. Alternate nose pieces are available for use with other manufacturers' light guides.

*High Intensity Light Source for Your Demanding Applications.*



Special and OEM  
configurations  
readily available.



#### FEATURES - MODEL FOI-250:

1. Heat dissipation through improved heat sinking and airflow.
2. Minimal light loss and reduced light spill.
3. A single "On/Off Intensity" control switch to increase lamp life
4. 250 Watt quartz halogen lamp with integral dichroic reflector focuses the maximum light intensity onto the fiber optic bundle while reducing the IR wavelengths.
5. Lamp color temperature at full output is 3,400°K.
6. Nose piece accommodates a variety of light guides, secured by socket cap screws to ensure a lock fit.
7. Easy access to lamp facilitates replacements without tools. The access door features a captive screw to prevent loss.
8. Rear mounted snap-out fuse.
9. Heavy duty all metal construction, balanced to accommodate the use of heavy light guide accessories.
10. Ball-bearing fan for reduced vibration, reduced noise and extended equipment life.
11. Can be positioned on end for reduced table space.

*A wide selection of light guides and filters are available to enhance the performance of your Fiber Optic Illuminators.*

#### SPECIFICATIONS

Model Number	FOI-250
Power/Frequency	120 VAC 60 Hz.*
Fuse	3 Amps "Slo-Blo"
Lamp Type	ELC 24 Volt 250 Watt Halogen
Lamp Life	50 Hrs. Min.**
Lamp Color Temperature	3400°K (at full output)
Output Aperture	5/8" (.625" ID) Standard***
Dimensions	7.5"L x 7"W x 6.5"H
Weight	7.5 lbs.
Warranty	30 months Parts & Labor (except lamp)

\*Available in 120V, 220V or 100V (for Japan) versions at no additional charge.

\*\*Longer lamp life obtainable by adjusting light output.

\*\*\*Other sizes available upon request.

Laboratory tests demonstrated that at a typical working distance, the FOI-250 provided 26,000 Lux with a standard fiber optic annular light guide. With Techniquip's AN-1+ annular light guide and its thicker fiber glass bundle, output can be increased even further to 43,000 Lux.

The on-off intensity control allows for precise adjustment of the intensity and increase lamp life by reducing the initial current surge when the illuminator is activated. The minimum lamp life can be extended by reducing the output intensity.



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P.O. Box 3310, Danville, CA 94526  
(888) 414-0789 Fax: (925) 251-0704  
Email: blue@techniquip.com www.techniquip.com