



## INFRARED BEAM FINDER

The Harrick IR Beam Finder is a useful device that assists in aligning accessories. It contains a tab with a phosphor-based compound that absorbs and "traps" light energy from a short wavelength source (such as a lamp or sunlight), and then releases this stored light in the form of visible light upon exposure to IR radiation. The result is a localized glow of intensity relative to the amount of stored light and to the intensity of the IR incident upon the active phosphor area.

### APPLICATIONS

- ▶ Allows viewing of the infrared beam from an FT-IR spectrometer.
- ▶ Simplifies alignment of accessories.

### FEATURES

- ▶ Glows a deep orange upon exposure to infrared radiation.
- ▶ Phosphorescent area is approximately the size of the infrared beam.



### INCLUDES

- ▶ Infrared beam finder.

### ORDERING INFORMATION

Infrared Beam Finder.....

CATALOG NO.  
IBF-000



The Infrared Beam Finder is an easy way to locate the infrared beam. It incorporates a specialty paper which charges under ambient light and phosphoresces upon exposure to infrared radiation. Detailed specifications of the phosphor paper are given in Table 1, and its response as a function of wavelength is shown in Figure 1.

Table 1: Phosphor Specifications

Peak Emission Wavelength nm/color	IR Wavelength Range ( $\mu\text{m}$ )	Approx. Min. IR Intensity (Dark)	Approx. Min. IR Intensity (Ambient Light)	Pump Wavelength	Resolution (Typical)
640/deep orange	0.7-1.6	$3\mu\text{W}/\text{cm}^2$	$100\mu\text{W}/\text{cm}^2$	Visible-UV	3 Lp/mm

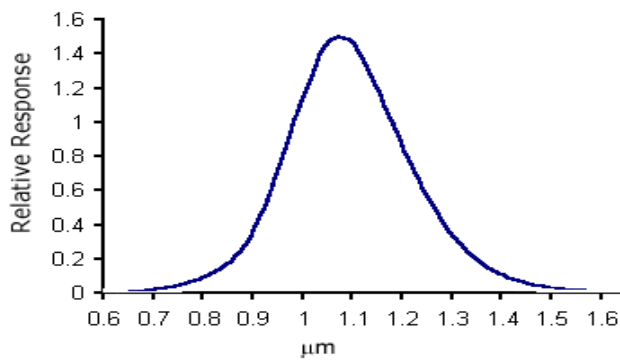


Figure 1. Phosphor Sensitivity as a Function of Wavelength