

INDUSTRIAL FIBER OPTICS

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IR (infrared) Detection Card 850nm

Credit card size indicator for viewing IR light.

An IR detection card is a great addition to any technician's tool box who works with fiber optic systems using infrared (IR) light. This card will quickly visually indicate if an IR LED is producing light (radiation) without having to use larger and bulkier tools. Each card has a 1.5 X 1.5 cm active area that is sensitive to IR light. The illuminated area glows or produces a blueish green light when illuminated with IR light. It creates this glow by dislodging charged molecular electrons in the phosphor material which produces photons which is light with a blueish green color.

Charging - phosphor stores energy when exposed to the UV wavelengths found in sunlight or light from fluorescent lamps - IR releases it as a phosphorescent glow. Sensitivity peaks at 800 nm and at 1300 nm (sensitivity at 1300 nm approx. 55 % of sensitivity at 800 nm). Suitable for low intensity LED light sources as used in fiber optics. High powered light sources may quickly deplete the stored energy in the phosphor material, after which recharging is required.

* Spectral bandwidth (S = 10 % of Smax) 600 - 1500 nm



Part Number: IF 850052



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