

IRisTM

SAFETY WAND

Portable IR Laser Detector for Network Engineers

Instant laser safety test to confirm
high-power IR lasers are off

make the invisible visible

How can network engineers be sure high-power IR lasers, that are invisible to the un-aided eye, are turned off? The IRis Safety Wand is a novel device that provides a fast and reliable final safety check before starting work on fibre cables.

An extension of our Visualize Range, the IRis Safety Wand is designed to selectively detect high-power lasers that operate at wavelengths between 1460 and 1600nm. This enables network engineers to validate if all standard safety controls were successful or if one or more controls have failed and a high-power laser remains on.

IRis... infra-red intelligent scintillator

Combining an optical long-pass filter with Scintacor's phosphor coating on a glass substrate, the *Infra-Red Intelligent Scintillator* will only glow under a specified wavelength range, discriminating between harmless low-power lasers and the high-power lasers that pose a safety risk, and without damage to the detector.

Simply hold the wand active area in front of the exposed fibre for an instant safety test to protect engineers from the risks that working in high-powered laser applications can pose. These include minor burns to the skin, eye damage or even loss of sight.



features

- Large Active Area
Accommodates fibre bundles up to 34mm diameter
- Portable
Lightweight but robust, the wand is easily carried and comes with a lanyard so it is always within reach
- Non-reflective
Surface properties chosen to minimise the risk of injury from stray reflections
- Ready to use
No batteries or power needed
- Storage Pouch
Soft interior protective pouch for safe storage
- Branding options
Add your company logo to the wand and/or lanyard - ask our sales team for more details



- 1. Robust acrylic wand**, in a black matt finish to minimise reflections, is lightweight and comfortable to hold to reduce drop risk, but tough to withstand potential impacts.
- 2. Infra-Red Intelligent Scintillator** emits visible light when irradiated by high-power lasers that operate at wavelengths in the 1460 to 1600nm range.
- 3. Lanyard clip aperture** to wear wand around the neck, increasing ease and readiness of use, and safety awareness.
- 4. Anti-reflection coating** on the outer glass surface minimises any stray reflections.
- 5. Custom branding options** available.

product options

As standard, the wand is branded Scintacor and is supplied with a brightly coloured lanyard (various colours) and protective storage pouch.

Custom branding with your company logo is available on the wand and/or lanyard.

Lanyard colours can be selected to suit your company.

Speak with our sales team for more details on how to customise the IRis Safety Wand to your requirements.

high-power laser applications

The IRis Safety Wand was developed to specifically answer the needs of data centres, for a final laser safety check as part of an overall safety program.

Operating at such a large scale, data centres will see and identify system failures and potential safety risks, therefore often leading to innovations to solve these problems.

The requirement for a portable, fail-safe design to allow network engineers to detect high-powered and harmful lasers, but not safe low-power lasers, led Scintacor to develop this innovative and unique detector that will positively impact the industry.

High-powered laser applications are used across multiple industries from telecoms and manufacturing to medical equipment, and Scintacor believe that companies that utilise high-powered lasers would benefit from this elegant, cost effective solution to a very high-risk safety problem.

Visit www.scintacor.com for further product details and to watch the IRis Safety Wand video.

IRis Safety Wand Patent Application Numbers
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specification

IR Detection Range	1460-1600nm
Min. Stimulation Power	120 kW/cm ² , 1540nm, 8.4ns pulses, 20Hz
Laser Damage Threshold	40 MW/cm ² , 1540nm, 8.4ns pulses, 20Hz
IR Intelligent Scintillator	Anti stokes phosphor with optical long pass filter
Scintillator Substrate	Glass
Anti-reflection	<2% reflection (at normal, 0 degrees incidence) in 1100-2000nm range
Active Area	35mm square
Wand Dimensions	140 x 45 x 5mm
Wand Weight	35g

Scintacor

125 Cowley Road, Cambridge Commercial Park,
Cambridge, CB4 0DL, United Kingdom

t +44 (0)1223 223060 e info@scintacor.com

www.scintacor.com

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