

Advanced Indoor Detection

OPT-RLS-1010L

Compact LiDAR technology with intelligent tracking



Features

- Compact LiDAR Sensor – High-performance indoor scanning
- Wide Detection Area – Covers 10 × 10 m with precise tracking
- Advanced Intrusion Detection – Ideal for server racks, shelving, skylights, walls & doors
- Smart Setup – PC-less installation with tool-less angle adjustment
- Auto Area Learning – Self-calibrates to reduce false triggers
- Dynamic Analysis – Real-time detection logs for fine-tuning
- Real-Time Feedback – LED indicators and simple web interface
- Flexible Mounting – Wall, ceiling, or angled brackets
- Optional Laser Alignment Tool – Visualise detection zones instantly
- Intelligent Object Tracking – Monitors size, speed, and location of moving targets

2 Year **Warranty**

Sensing Innovation

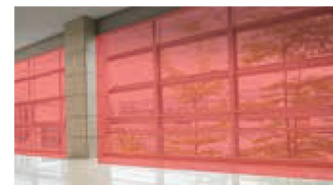


Applications

Ideal for high-performance indoor scanning, this versatile LiDAR sensor is perfect for applications such as server rack, glass wall, shelf, and asset protection.



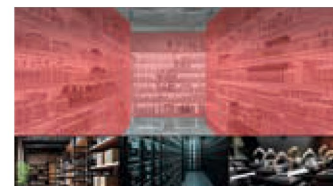
Server Rack



Glass Walls



Shelving



Walls & Doors



Wall Mount



Ceiling Mount



Bracket Mount

Mounting Methods

The LiDAR sensor offers flexible installation options, including wall, ceiling, or bracket mounting to suit any indoor environment.

Ease of Installation

Installation is quick and effortless - no power needed, with a laser alignment tool for visual setup, tool-less angle adjustment, and automatic area learning and correction to prevent detection overspill.

No Power Required



Laser Scanning Path Visualisation



Tool-less Angle Adjustment

Auto Area Learning



Area Set activates at power-on, with Automatic Area Correction preventing overspill near mesh fences.

Laser Alignment Tool



OPT-RLS-LAT

Laser Window



OPT-RLS-LWL

L Mount Bracket



OPT-RLS-LBL

Laser Area Checker



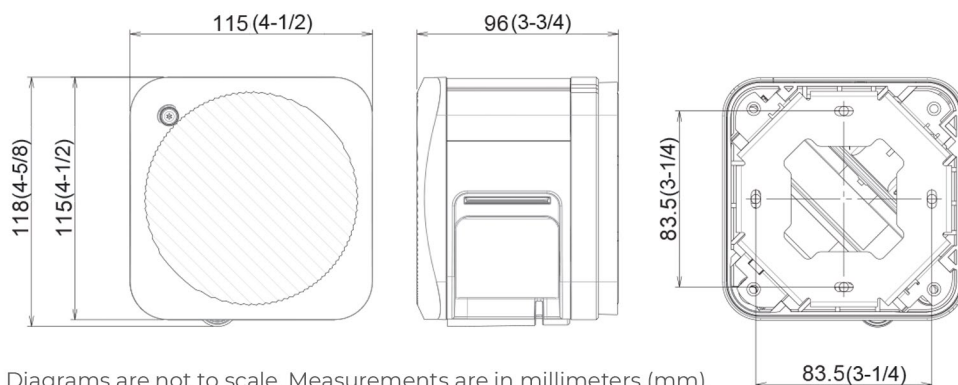
OPT-LAC-1

Optional Extras

Optional extras include a Laser Alignment Tool (recommended for first-time setup, laser pointer not included), L Mount Bracket, Laser Window, and Laser Area Checker.

Product Dimensions

See Redscan in [Action](#)



Diagrams are not to scale. Measurements are in millimeters (mm).



Specifications

Installation Location	Indoor
Detection Method	TOF
Laser Protection Class	Class 1
Power Input	10.5-30 VDC, PoE (IEEE 802.3af compliant)
Current Draw	500 mA max. (12 VDC), 250 mA max. (24 VDC), 6 W max. (PoE)
Mounting Method	Wall mount, ceiling mount & bracket mount
Detection Area	10×10 m, 95 degree (approx. 33 × 33 ft)
Detection Range	Radius 1 to 15 m (approx. 3.3 to 50ft.) at 10% reflectivity
Detection Resolution/ Response Time	0.125 degrees/within 100 msec. to 1min
Maintenance Port	Ethernet RJ-45 10BASE-T/100BASE-TX (Auto negotiation)
Communication Port	RS-485
Output	3 outputs, 28 VDC 0.2 A max. N.C.
Input	1 Non-voltage contact input
Alarm Period	Approx. 2 second delay timer
Operation Temperature	-20°C to 50°C (-4°F to 122°F)
IP Rating	IP55

Detection Range

