OPTEX
Sensing Innovation

REDSCAN mini ™

Indoor only **RLS-2020I**

The REDSCAN mini RLS-2020I is an indoor IP/PoE laser scan detector providing 20 x 20 m vertical or horizontal detection area.

The RLS2020I helps protect assets, equipment, walls and ceilings by creating an invisible laser wall and detecting any intrusion breaching it.

Its compact, cosmetic and versatile design makes it very easy to install and covers many different configurations.

The RLS-2020I generates unique REDWALL Event Codes that are already integrated with many popular Video Management Systems (VMS), allowing it to trigger events.

In addition, it also supports multiple network protocols for integration with VMS platforms and Physical Security Information Management (PSIM) platforms which may require HTTP/HTTPS, SNMP, etc..Not impacted by any lighting conditions, the RLS-2020I will act as a trigger to enhance video surveillance or a wide range of security systems.

PoE
Power over Ethernet

Compact size

CE EN 50131-1 Grades and Environmental Class:
Security Grade 3, Environment ClassII TS50131-2-11

SECURITY
UL LISTED

FEATURES

- 20m x 20m (65ft. x 65ft.), 95 degree detection area
- Vertical and Horizontal detection modes
- Multi-angle Adjustment Shell Structure (M.A.S.S.)
- Unique detection algorithm
- Automatic area setting function
- Supporting multiple network protocols.

- Advanced area setting
- 4 adjustable detection areas when connected via IP
- 3 outputs can be assigned for analogue connections : alarm, trouble, tamper (configurable)
- Compatible with Power over Ethernet
- Paintable housing
- Integration to external devices and applications with REDWALL Event Code.

SPECIFICATIONS

Model	RLS-2020I
Installation location	Indoor
Detection metod	Infrared Laser Scan
Laser protection class	Class 1
Power input	10.5 to 30 VDC, PoE (IEEE802.3af/at compliant)
Current draw	500mA max. (12 VDC), 250mA max. (24 VDC), 6W max. (PoE)
Mounting method	Ceiling mount, Wall mount, Tripod mount, Pole mount (option), Recess mount (option)
Detection area	20 x 20 m, (approx. 65 x 65 ft.), 95 degrees
Detection range	Radius 1 to 21m (approx. 3.0 to 68 ft.) at 10% reflectivity
Detection resolution/Response time	0.25 degrees / within 75 ms to 15 minute
Mounting height(Vertical mode)	2 m (6.7 ft.) or higher
Communication port	Ethernet RJ-45 10BASE-T / 100BASE-TX (Auto negotiation)
Network protocol	TCP/IP, UDP/IP, DHCP, DNS, HTTP, HTTPS, FTP, SNMPv1/v2c/v3, ICMP, ARP
Output	3 outputs, 28 VDC 0.2 A max. N.O./N.C. Selectable
	(3 from Master alarm, Zone outputs, Trouble, Tamper)
Input	-
Alarm period	Approx. 2 s delay timer
Operating temperature	-40 to 50 C degrees (-40 to 122 F degrees)
IP rating	IP66
Dimensions (HxWxD)	146 x 160 x 160 mm (5.8 x 6.3 x 6.3 inch)
Weight	1.0 kg (2.2 lb)

* Specifications and design are subject to change without prior notice.

EASY SETUP AND CONNECTION

IP connection → PC
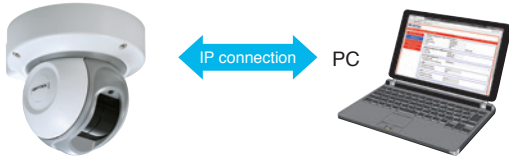
PoE enabled Redscan mini generates Redwall Event Codes (REC) to all compatible VMS and NVR., through a single cable.

Web browser: Basic setting of detection areas without external program

Optional REDSCAN MANAGER software: Detailed setting, including detection area and shapes
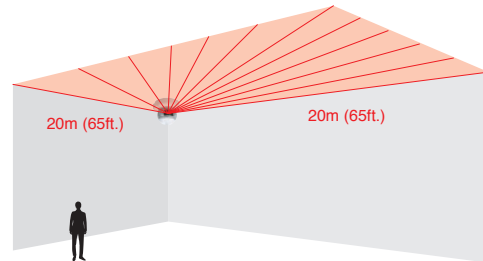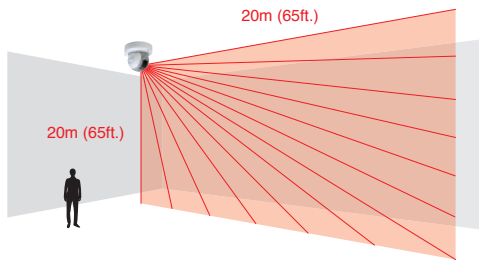
INSTALLATION EXAMPLE

CEILING MOUNT

WALL MOUNT

The multi-angle adjustment shell structure allows flexible installation on ceiling or wall for vertical and horizontal detection area.

OPTION
Optional Recess mount bracket RLS-RB

DETECTION AREA

20m (65ft.)
20m (65ft.)
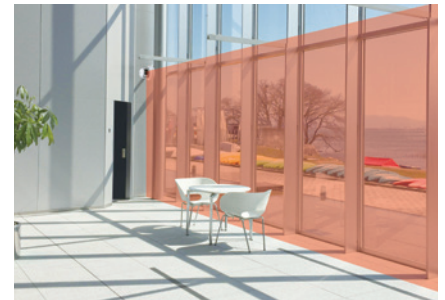20m (65ft.)
20m (65ft.)

APPLICATIONS

Skylight protection at Public facility / Warehouse

Ceiling protection at Data center

Window/Wall protection at Commercial facility/Office

DIMENSIONS

146 (5.7)
Φ160 (6.3)
160 (6.3)
84.9 (3.34)
(4' Electrical Box)
1/4 -20UNC
84.9 (3.34)
83.5 (3.29)
(Single Gang Box)
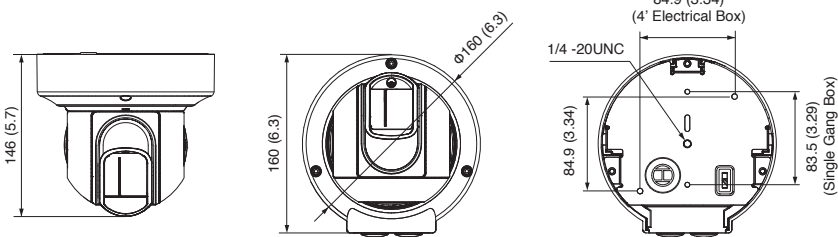
Unit:mm(inch)

ACCESSORIES

LAC-1   : Laser Area Checker
RLS-PB : Pole mount Bracket
RLS-RB : Recess mount bracket
RLS-LW : Laser Window