

# REDFSCAN mini™

# Indoor / Outdoor RLS-2020S



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



The REDSCAN mini RLS-2020S is an IP/PoE laser scan detector for outdoor and indoor use, providing up to 20 x 20m ( 65 x 65 ft.) detection range horizontally or vertically.

The RLS-2020S is a compact and highly customisable detector that helps protect in an unobstructed way, houses, buildings, controlled areas by creating an invisible laser wall or plane and detecting any intrusion breaching it.

For indoor applications, the RLS-2020S can be set up in high resolution mode which enables very small object detection; it can also be set up in "indoor throwing mode" allowing to detect an object been thrown into a controlled area.

The RLS-2020S 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..



## FEATURES

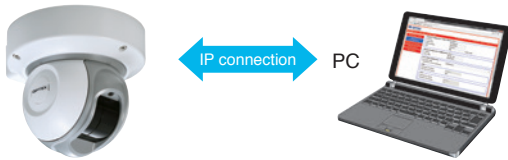
- 20m x 20m (65ft. x 65ft.), 95 degree detection area
- Vertical and Horizontal detection modes
- Multi-angle Adjustment Shell Structure (M.A.S.S.)
- Unique detection algorithm
- Automatic area setting function
- Advanced area setting
- 4 adjustable detection areas on IP connection
- Total 3 outputs can be assigned for analog connection
- Supporting multiple network protocols.
- Anti-rotation, Anti-masking, Soiling, Trouble, Tamper, DQ outputs (Selectable)
- Compatible with Power over Ethernet
- Paintable housing
- Indoor and Outdoor use
- Indoor high resolution mode
- Indoor throw-in mode
- Area selection
- Environmental disqualification circuit (D.Q.)
- Integration to external devices and applications with REDWALL Event Code.

## SPECIFICATIONS

Model	RLS-2020S
Installation location	Indoor/Outdoor
Detection method	Infrared Laser Scan
Laser protection class	Class 1
Power input	10.5 to 30 VDC, PoE (IEEE802.3 af/at compliant)
Current draw	500 mA max. (12 VDC), 250 mA 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. 3.3 to 68 ft.) at 10% reflectivity
Detection resolution/Response time	0.25 degree / within 75msec to 15 minutes (for indoor mode and outdoor mode) 0.25 degree / within 25msec (for indoor throw-in mode), 0.125 degree / within 100msec to 15 minutes (for Indoor high resolution mode)
Mounting height(Vertical mode)	Indoor: 2 m (6.7 ft.) or higher Outdoor: 4 m (13 ft.) or higher (Recommended)
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 0.2A max. N.O./N.C. Selectable (3 from Master alarm, Zone outputs, Trouble, Tamper, D.Q.)
Input	1 Non-voltage contact input
Alarm period	Approx. 2 sec delay timer
Operating temperature	-40 to 60 C degrees (-40 to 140 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



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

Detailed and complex area settings and configuration should be performed with the REDSCAN Manager software (supplied separately). Simpler detection areas can be set via the web browser.



## INSTALLATION EXAMPLE

### CEILING MOUNT



Multi-angle Adjustment Shell Structure allows flexible installation on ceiling or wall for vertical or horizontal detection area.

### WALL MOUNT

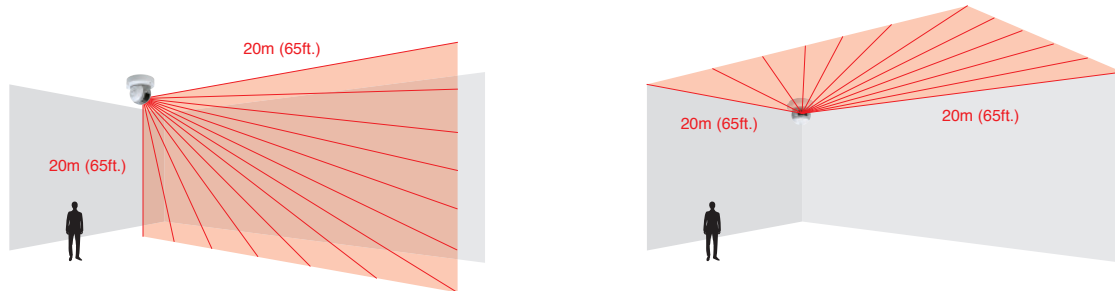


### OPTION

Optional Recess mount bracket RLS-RB



## DETECTION AREA



## APPLICATIONS



Art protection at Museum

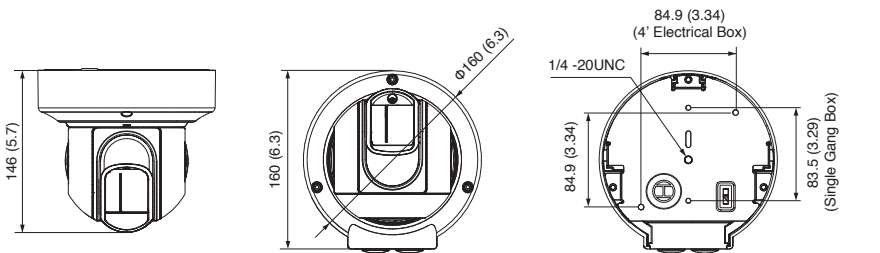


Protecting controlled areas



Wall protection (outdoor) at Warehouse

## DIMENSIONS



Unit:mm(inch)

## OPTION

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



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