

REDSKAN mini-Pro

Advanced LiDAR sensor series for indoor & outdoor high security applications



RLS-2020A

65 x 65 ft. (20 x 20m) LiDAR

RLS-2020V

65 x 65 ft. (20 x 20m) LiDAR
with built-in IR FHD camera

Extremely accurate intrusion detection sensors using time-of-flight technology to identify the size, location, and distance of moving or loitering objects and track them to the exact X and Y coordinates. Now with built-in IR camera for visual verification and recording.

Onvif® | S



REDS CAN mini-Pro detects threats proactively with pinpoint accuracy unaffected by variable lighting, temperature, or weather conditions.

-  X/Y Coordinate Information
-  Detection Target Size
-  Detection Area Information
-  Privacy-compliant solution by collecting only anonymized 2D data
-  Optional built-in camera for visual verification and recording

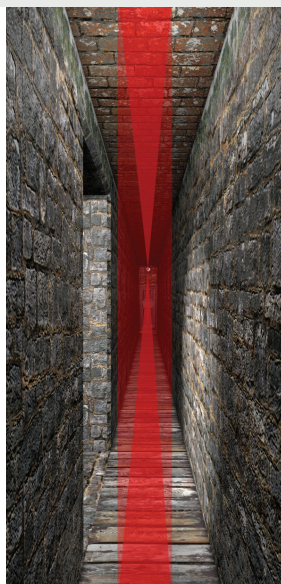
Key Applications:

- Valuable assets and restricted areas
- Rooftops and skylights
- Building facades
- Perimeters and gates
- Narrow corridors
- Under floor and ceiling
- Tunnel applications and rail crossings

Key Features

Intelligent analytics

The REDSCAN mini-Pro utilizes LiDAR technology for precise detection in challenging conditions, such as complete darkness and complex surroundings, including narrow spaces and poorly lit areas. It ensures swift detection and instant visualization of targets within the detection area, achieving a remarkable 100msec response time and an angular resolution of 0.125 degrees, regardless of target location.



Customizable detection areas

REDS CAN mini-Pro allows flexible mounting options providing a high resolution 65 x 65ft horizontal, vertical, or angled detection area.

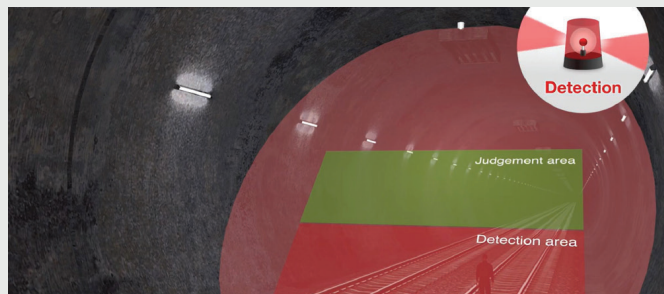
It allows up to 8 independent detection zones with customizable parameters for the environment & target object.



Environmental resistance

REDS CAN mini-Pro features auto adjustment area to adapt to the ground level and environmental resistance function to

provide effective detection even in the harshest weather conditions, enabling operation from -40° to 140°F.



Dynamic event filtering

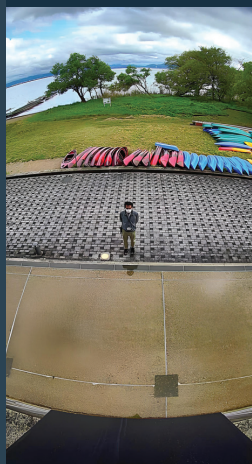
Real-time event analysis and logic-based filtering enhance security team efficiency and prioritize critical incident responses.

For instance, the mini-Pro is able to alert for target movement or unauthorized area access, like tunnel entrances.

Visually verify alarms with built-in camera and IR LED

The REDSCAN mini-Pro RLS-2020V model incorporates an integrated FHD camera for visual verification of alarm signals, offering full coverage of the detection area. It features an adjustable IR LED with variable luminance, ensuring clear detection target visualization, even in low-light or nighttime conditions.

Day



Night



Onboard Recording

Pre and post-alarm detection data and camera images are saved in the internal memory, with a high-capacity for storage of up to 500 events.

Connectivity for seamless security system integration

REDSKAN mini-Pro is ONVIF Profile S compliant allowing it to send alarm outputs to any compliant networked Video Management System (VMS) or IP devices.

Compliant with popular network protocols like DNS, DHCP, NTP, WS-Discovery.

Dynamic map live streaming

Photos and map images can be used to overlap the detection area for better situational awareness. Either "Scan area" or "object position" can be sent to ONVIF compliant software/devices when an alarm occurs.



Enhanced security network

REDSKAN mini-Pro offers secure network connectivity via both IP and analog connections.

Equipped with leading industry protection, the mini-Pro effectively thwarts potential hacking threats.

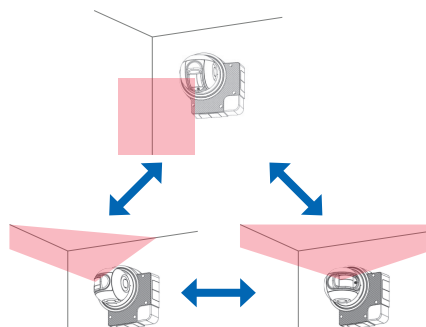
Compliant with:
HTTPS, SNMPv3, IEEE802.1X



Easy installation and configuration

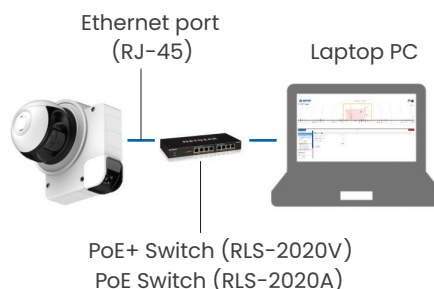
Multi-angle adjustment shell

Easily re-configure the unit and adjust it to the mounting conditions.



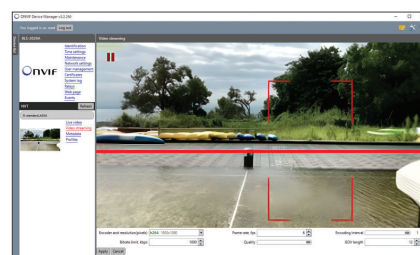
Intuitive user interface

Settings via web browser for easy and flexible configuration and maintenance.



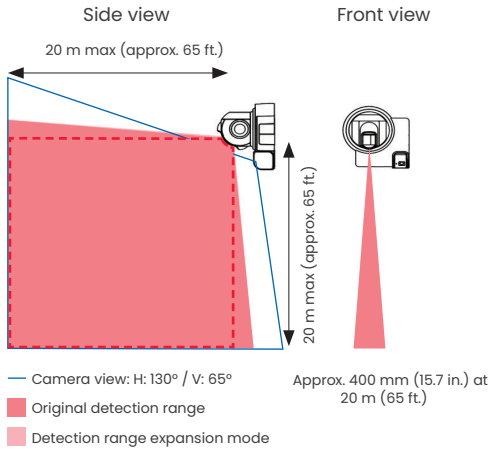
Visualization of detection area

The RLS-2020V model offers scene visualization and the ability to create a laser guideline.



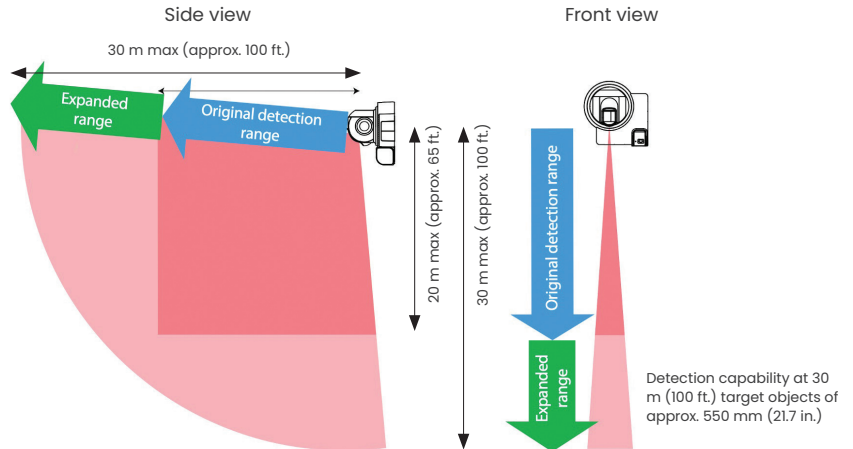
Detection range

20 x 20 m (Approx. 65 x 65 ft.), 95 degrees



Detection range in expansion mode

30 x 30 m (Approx. 65 x 65 ft.), 95 degrees



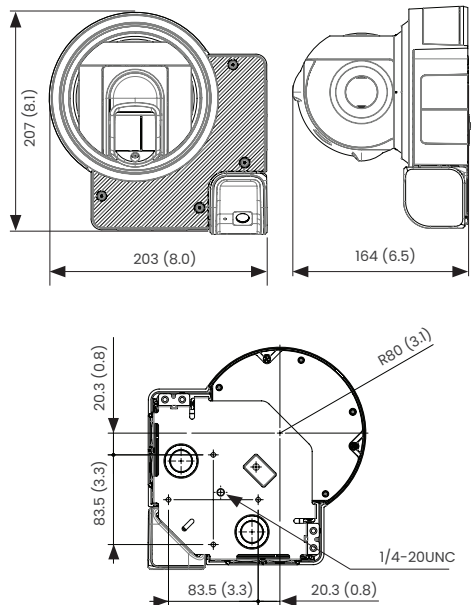
Specifications

Model	RLS-2020V	RLS-2020A
Installation location	Indoor/Outdoor	
Detection method	Infrared Laser Scan	
Laser protection class	Class 1	
Power input	19.2~30 VDC, PoE+ (IEEE 802.3 af/at compliant)	19.2~30 VDC, PoE (IEEE 802.3 at compliant)
Current draw	580 mA max. (24 VDC), 14 W max. (PoE+)	420 mA max. (24 VDC), 10 W max. (PoE)
Mounting method	Ceiling mount, Wall mount, Pole mount	
Detection area	20 x 20m, 95 degree (approx. 65 x 65 ft.)	
Detection range	Radius 1 to 21m (approx. 3.3 to 68ft) at 10% reflectivity	
Detection resolution / Response time	0.125 degrees / within 100 msec. to 15 min. / 0.25 degrees / within 50 msec. to 15 min.	
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)	
Protocol	UDP/ TCP/ HTTP/ HTTPS/ IPV4/ IPV6/ DNS/DHCP/ SNMPv1-v3/ NTP/ WS-Discovery/ ONVIF/IEEE802.1X	
Output	6 outputs, 28 VDC 0.2 A max. N.O./N.C.(selectable) (6 from Master alarm, Zone alarm, Trouble, Tamper, Environmental Disqualification, Device Monitoring) (programmable) RS-485	
Input	2 Non-voltage contact input (Detection profile switching, Area set, Sensor check, Turn on LEDs, Create AND/NAND logic, Dynamic event filtering) Programmable	
Alarm period	Approx. 2 second delay timer	
Operating temperature	-40°C to 60°C (-40°F to 140°F)	
Dimensions (H×W×D) Weight	202.6 x 206.7 x 163.5 mm max. (8.0 × 8.1 × 6.4 inch) RLS-2020V: 1.6 kg (3.5 lbs) / RLS-2020A: 1.3 kg (2.9 lbs)	

Model	RLS-2020V
Image sensor	Full HD (1980 x 1080)
Image resolution	1080P (Web User Interface) / 1080P/720P/360P (RTSP)
Viewing angle	H: 130° / V: 65°
Minimum illumination	Approx.1 lux.
IR Range	Removable infrared-cut filter (Auto-adjustable / Night / Day) (selectable)
Image compression	H.264, JPEG
Frame rate	1 to 10 FPS (selectable)

Dimensions

Unit: mm (inch)



Accessories

LAC-1	RLS-LW	RLS-PB2
Laser Area Checker for all RLS series	Laser window for replacement	Pole mount Bracket



Contact us:

800.966.7839 | sales@optexamerica.com
www.optexamerica.com