

OUTDOOR 2D LIDAR SENSOR

REDSCAN Pro

Advanced LiDAR sensor series

Long-range,intelligent,secure and customisable security outdoor and indoor laser sensors.

Available Models:

RLS-50100V: 50 x 100 m (approx. 165 x 330 ft.) **RLS-3060V**: 30 x 60 m (approx. 100 x 200 ft.)







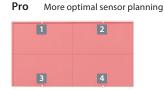
REDSCAN Pro series is LIDAR sensor which can recognize moving object's size, moving speed and distance from the unit.

Small number of installations

Previous





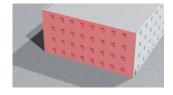


Since the detection range is square, a wide range can be covered with a small number of installations.

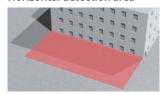
Vertical or horizontal mount is selectable

Vertical and Horizontal mode can be automatically chosen.

Vertical detection area



Horizontal detection area



Selectable installation method

RLS-3060V and RLV-50100V have 3 installation methods as Wall, Ceiling and Pole. You can select either method to match the installation site.

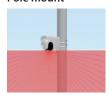
Wall mount



Ceiling mount

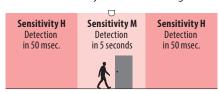


Pole mount



Changeable detection sensitivity & size

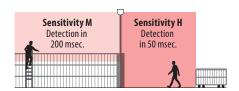
Detection sensitivity and size are changeable individually to fit your installation site flexibly.



Different sensitivity only at small part like a door.



Detection area generating an alarm signal immediately and the one generating a pre-warning signal.



Different sensitivity at left and right.

Reduction of false/missed alarms

Auto area adjustment

In snowy conditions, the detection area floor can change, this could cause false alarms. By using this function, the REDSCAN Pro unit continuously adjusts the detection area between the object height and the previous revised line of the around.



Small Animal Tolerance

This function is used to reduce false alarms due to small animals in the vertical detection area.

- The REDSCAN Pro can reduce false alarms caused by small animals going through the detection area in a short time period.
- Disable Will make the REDSCAN Pro more sensitive near to the ground.

Environmental Resistance function

This function is used to reduce false alarms in harsh environments, e.g. fog, snow, etc.

- The unit can reduce false alarms in foggy conditions and can achieve a well balanced detection capability.
- Enhanced In the case of heavy fog or snow, this setting can be used to reduce false

Time crunch and reduction of mistake of installation

Visualization of detection area

A laser guide line and the visualization of the scene help the sensor's alignment.



Assistance camera (2 MP, Panoramic View)

Built-in angle adjustment function

Tilt -5 to 95 degrees, roll +-5 degrees (Mechanical adjustment) Yaw +- 5 degrees (software adjustment)





Setting with web browser (Web UI)

Setting can be done by Internet Browser. You do not have to install the dedicated software (REDSCAN Manager software) like for RLS-2020 and RLS-3060.



Connectivity and network security



Alarm events can be transmitted to VMS with video stream, which provides a smart integration with VMS.

Network Protocols with enhanced network security UDP/TCP/HTTPS/IPV4/DNS/DHCP/SNMPV1-v3/NTP/WS-Discovery/ONVIF/IEEE 802.1X

Verification of the cause of detection signal

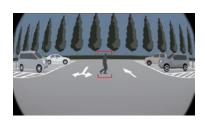
Event log function

Track of object is recorded when alarm signal is generated.

•	Date and tim	Trigger	Result	î
0	2019/05/18 04:58:08	MO/A1/AA/CC/DQ/AR/AM/TR/ SO/TA		•
0	2019/05/18 20:58:08	MO/A1/AA/CC/DQ/AR/AM/TR/ SO/TA		Ì
0	2019/05/19 07:58:08	MO/A1/AA/CC/DQ/AR/AM/TR/ SO/TA		1

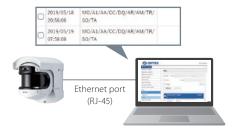
Assistance camera (2 MP, 180 degrees)

The pre and post alarm camera images are recorded in internal memory of the unit and can be played back and verified.



High-capacity memory

The alarm pre and post detection data and camera image are recorded in internal memory of the unit. Alarm logs: 500 events.



Applications

Important facility protection

Sub-stations, Gas facilities



Rooftop protection

Bank, Money transaction facility



| Wall protection

Warehouse, Distribution Center



Loitering protection

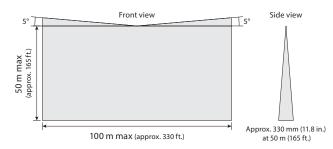
VIP Residence



Detection areas

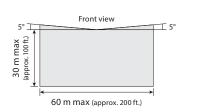
RLS-50100V

- 50 x 100 m (approx. 165 x 330 ft.), 190 degree detection area
- High detection resolution: 0.125 degrees
- Rectangular detection area
- Log function with camera
- Setting by Internet browser



RLS-3060V

- 30 x 60 m (approx. 100 x 200 ft.), 190 degree detection area
- Rectangular detection area
- Log function with camera
- Setting by Internet browser

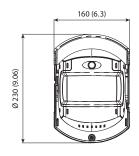


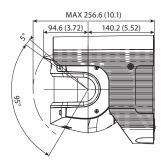


Options

LAC-1	RLS-LWV	RLS-LWVH
Laser Area Checker for all RLS series	Replacement Window for RLS-3060V and RLS-50100V	Replacement Window with heater unit for RLS-3060V and RLS-50100V

Dimensions





Specifications

Model	RLS-50100V	RLS-3060V	
Installation location	Indoor / Outdoor		
Detection method	Infrared Laser Scan		
Laser protection class	Class 1		
Power input	19.2-30 VDC, PoE+ (IEEE 802.3at compliant)		
Current draw	500 mA max. (24 VDC), 12 W max. (PoE+)		
Current draw	with heater option: 1.25 A max. (24 VDC), 25.5 W max. (PoE+)		
Mounting method	Ceiling mount, Wall mount, Pole mount		
Detection area	50 x 100 m, 190 degree (approx. 165 x 330 ft.)	30 x 60 m, 190 degree (approx. 100 x 200 ft.)	
Detection range	Radius 1 to 50 m (approx. 3.3 to 165 ft.) at 10% reflectivity	Radius 1 to 30 m (approx. 3.3 to 100 ft.) at 10% reflectivity	
Detection resolution / Response time	0.125 degrees / within 100 msec. to 15 min.	0.25 degrees / within 100 msec. to 15 min.	
Mounting height (Vertical mode)	Indoor: 2 m (approx. 6.7 ft.) or higher/Outdoor: 4 m (approx. 13 ft.) or higher (Recommended)		
Communication port	Ethernet RJ-45 10BASE-T/100BASE-TX (Auto negotiation)		
Protocol	UDP/TCP/HTTP/HTTPS/IPV4/DNS/DHCP/SNMPv1-v3/NTP/WS-Discovery/ONVIF		
Output	6 outputs, 28 VDC 0.2A max. N.O./N.C. Selectable		
Input	1 Non-voltage contact input		
Alarm period	Approx. 2 second delay timer		
Operating temperature	-40°C to 60°C (-40°F to 140°F)		
operating temperature	with RLS-LWVH: -20 °C to 60°C (-140°F to 140°F)		
Dimensions (H×W×D) , Weight	230 × 160 × 256.6 mm max. (9.1 x 6.3 x 10.1 inch), 2.6 kg (92 oz.)		
IP rating	IP66		



OPTEX CO., LTD. (JAPAN)

www.optex.co.jp/e

OPTEX INC. / AMERICAS HQ (U.S.) www.optexamerica.com

OPTEX (EUROPE) LTD. / EMEA HQ (U.K.)

www.optex-europe.com

OPTEX SECURITY B.V. (The Netherlands) www.optex-europe.com/nl

OPTEX SECURITY SAS (France) www.optex-europe.com/fr

OPTEX SECURITY Sp.z o.o. (Poland)

www.optex-europe.com/pl

OPTEX PINNACLE INDIA, PVT., LTD. (India)

www.optexpinnacle.com OPTEX KOREA CO., LTD. (Korea)

www.optexkorea.com

OPTEX (DONGGUAN) CO., LTD. SHANGHAI OFFICE (China) www.optexchina.com

OPTEX (Thailand) CO., LTD. (Thailand) www.optex.co.th