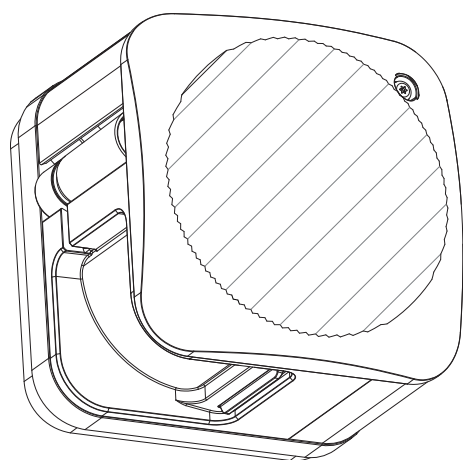


REDS CAN Lite



RLS-1010L

Laser Scan Detector

Setting Manual (Ver. 1.0.x)

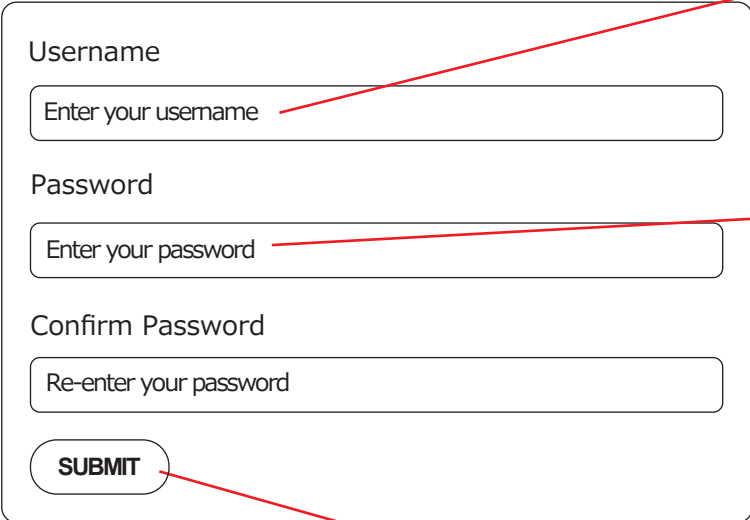
Support browser: Chrome
(running on Windows 10 or later, Mac, Android)

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1. Log in

Account setup



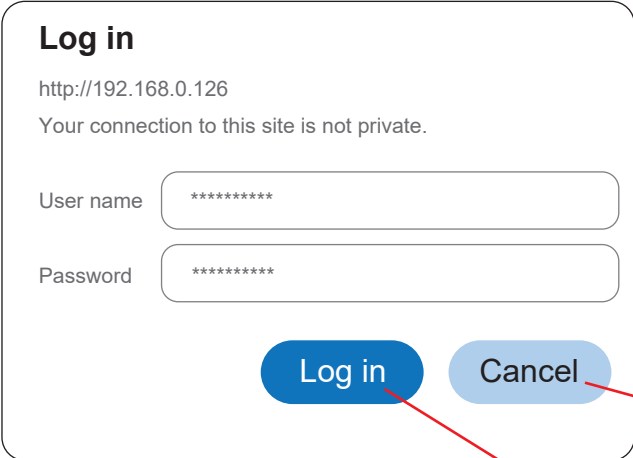
The form contains three input fields and a submit button. Red lines connect the labels to the corresponding fields: Username to the first field, Password to the second field, and SUBMIT to the button.

Username
Allowed Characters: a-z, A-Z, 0-9, _ . -
Maximum Length: 20 characters

Password
Allowed Characters: a-z A-Z 0-9
! # \$ % & ' () * + , - . / ; < = > ? @
^ _ ` { | } ~ " Single-byte spaces
Maximum Length: 20 characters

SUBMIT
Navigate to the Web UI.

Log in



The form displays a warning message and two input fields. Red lines connect the labels to the buttons: Cancel to the Cancel button and Log in to the Log in button.

Log in
http://192.168.0.126
Your connection to this site is not private.

User name *****

Password *****

Log in
Navigate to the Web UI.

Cancel
Cancel access to the Web UI.

2. Overview

Display Device Information and Settings

Area View

Model Name and Firmware Version



RLS-1010L Version, 1.0.0 (20Feb2025)

Overview
View the device setup and monitor activities. All information is alive. "REPORT" creates a snapshot of the tab in a PDF format. Remove all temporary obstructions from the detection area.

Detection Configuration

Maintenance

Detection History Analysis

Status

Date 2025-03-14T10:44:29+09:00
Event Code -
Soiling Ratio 0 %

Detection Information

Model RLS-1010L
Version 1.0.0 (20Feb2025)
Serial No. 2449505510014S
MAC Address 00:1f:d1-46:00:0d
Sensitivity (msec) 200
Minimum Target Width (mm) 50
Detection Range 1 (m) 10
Detection Range 2 (m) 10
Offset (mm) 100

Alarm Allocation and Status

	ALARM STATUS	ALARM	ANTI-MASKING	ANTI-ROTATE	SOILING OF LASER WINDOW	TROUBLE	TAMPER	DEVICE MONITORING
OUTPUT 1	OFF	●	●	●	●	●	●	●
OUTPUT 2	OFF	●	●	●	●	●	●	●
OUTPUT 3	ON !	●	●	●	●	●	●	●
INPUT 1	OFF							

REPORT

Here is the page to adjust. [Output Configuration.](#)

Display Input and Output Status

Report Function

This function outputs the information on the Overview page as a PDF. Clicking will navigate to the report output screen.

2-1. Display Device Information and Settings

Status

Date 2025-03-14T10:44:29+09:00

Event Code -

Soiling Ratio 0 %

Detection Information

Model RLS-1010L

Version 1.0.0 (20Feb2025)

Serial No. 2449505510014S

MAC Address 00:1f:d1-46:00:0d

Sensitivity (msec) 200

Minimum Target Width (mm) 50

Detection Range 1 (m) 10

Detection Range 2 (m) 10

Offset (mm) 100

Current date and time on PC

Display the device status using REDSCAN Event Code. For details, refer to the table below.

Display the degree of contamination on the laser window. Clean the laser window if the value increases.

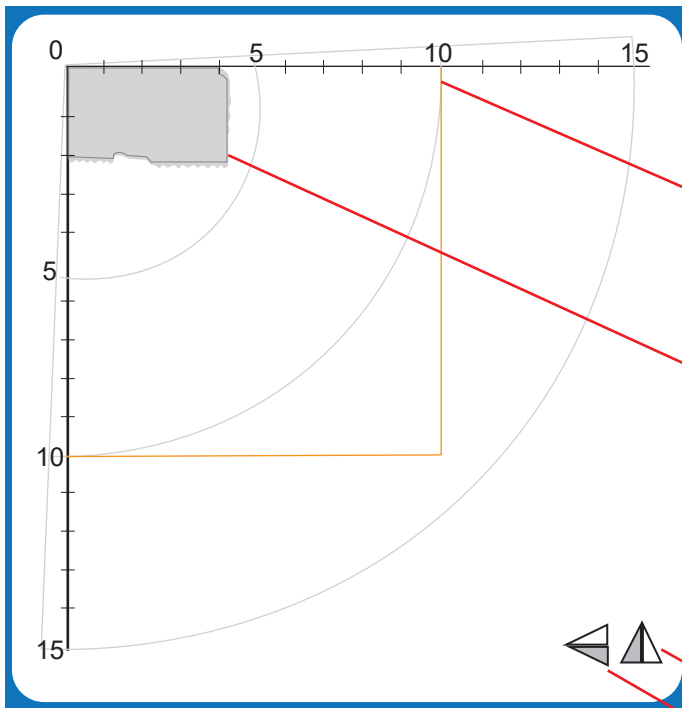
Device Information

Display detection settings. For details on each setting, refer to the detection settings section.

Event Code legends

Code	Event Name	Description
MOA1	Alarm	Triggered by an object in the detection area.
AM	Anti-Masking	Detects obstacles that mask the detector.
AR	Anti-Rotation	Detects if the unit is rotated or subjected to heavy shock.
SO	Soiling of the Window	Detects soiling on the detector window.
TR	Device Trouble	Hardware error.
TA	Tamper	Detects cover opening or removal from the mounting surface.
DM	Device Monitoring	Heartbeat

2-2. Area View



Detection range

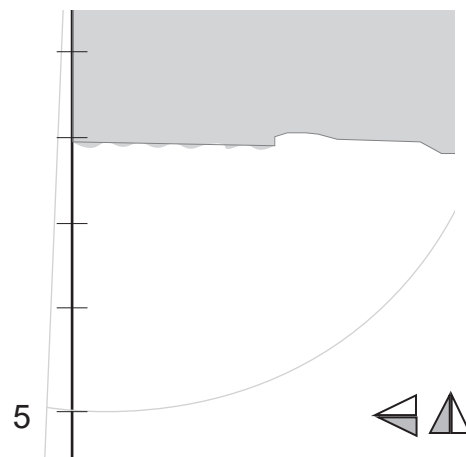
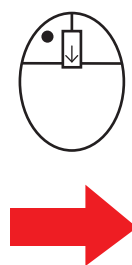
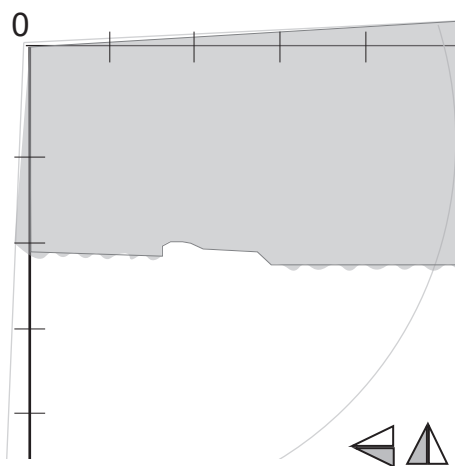
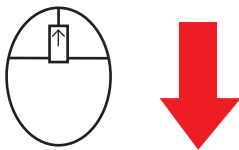
This is the detection distance limit.
It can be expanded in the settings.

Detection area (Dark Gray)

This is the detection area currently set.
Alarm will be triggered if an object enters this area.

Flip horizontal

Flip vertical



Zoom In/Out on Viewer Using Wheel

To zoom in or out on the viewer, use the mouse wheel.
Scroll up to zoom in and scroll down to zoom out.

Move Viewing Area with Left Click + Wheel

To move the viewing area, hold down the left mouse button and use the mouse wheel.
Scroll up or down to move the viewing area accordingly.

2-3. Display Input and Output Status

Display Current Output settings

The default settings are as follows:

OUTPUT1: ALARM

OUTPUT2: ANTI-MASKING, ANTI-ROTATE, TROUBLE

OUTPUT3: TAMPER

Alarm Allocation and Status

	ALARM STATUS	ALARM	ANTI-MASKING	ANTI-ROTATE	SOILING OF LASER WINDOW	TROUBLE	TAMPER	DEVICE MONITORING
OUTPUT 1	OFF	●	●	●	●	●	●	●
OUTPUT 2	OFF	●	●	●	●	●	●	●
OUTPUT 3	ON !	●	●	●	●	●	●	●
INPUT 1	OFF							

REPORT 

Here is the page to adjust. [Output Configuration.](#) >

Input/Output Status

When active, INPUT or OUTPUT will be displayed as "ON" in the corresponding section.

To modify the output settings, click this link or go to maintenance section.

2-4. Report Function



Signature

*: Required

Site Name / Site ID *

Device ID (Asset number) *

Installation Engineer Name *

Installer Name *

Are you certified? *

Yes

No

Additional Note

OK CANCEL

The entered content will be included in the report along with the device information.

Navigate to the PDF Preview Page.

Return to the Overview Page.

<PDF Preview>



RLS-1010L Version, 1.0.0 (20Feb2025)

Signature

Site Names *****
 Device ID *****
 Engineer's Name *****
 Company Name *****
 Additional Note *****

Detection Information

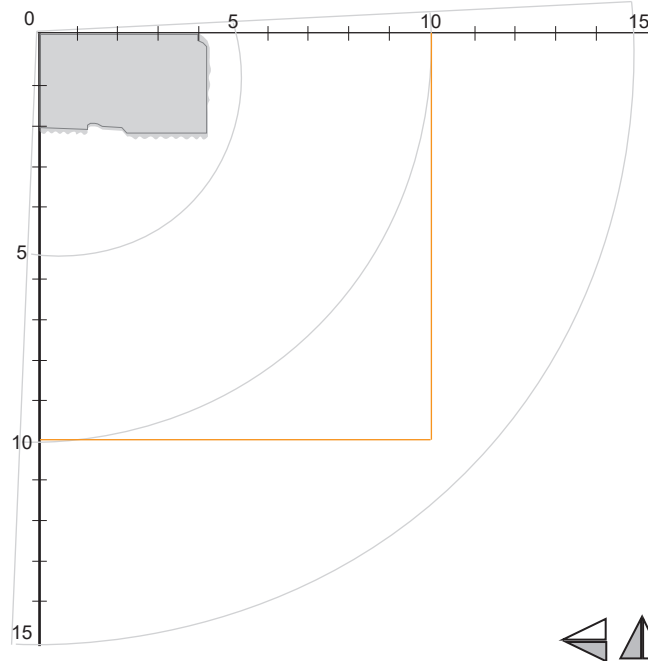
Model RLS-1010L
 Version 1.0.0 (20Feb2025)
 Serial No. 2449505510014S
 MAC Address 00:1f:d1-46:00:0d
 Sensitivity (msec) 200
 Minimum Target Width (mm) 50
 Detection Range 1 (m) 10
 Detection Range 2 (m) 10
 Offset (mm) 100

Status

Date 2025-03-14T10:45:32+09:00
 Soiling Ratio of Laser Window 0 %

Alarm Allocation and Status

	ALARM	ANTI-MASKING	ANTI-ROTATE	SOILING OF LASER WINDOW	TROUBLE	TAMPER	DEVICE MONITORING
OUTPUT 1	●	●	●	●	●	●	●
OUTPUT 2	●	●	●	●	●	●	●
OUTPUT 3	●	●	●	●	●	●	●



3. Detection Configuration

Area Set

Learn the shape of the Detection Area.

* If the automatic area set function at startup is enabled, pressing this button is not necessary.

Displayed Unit

Area View



RLS-1010L Version, 1.0.0 (20Feb2025)

Detection Settings

Detection Area Editing Function

The button will be highlighted when settings are changed. Pressing it will apply the changes to the device.



3-1. Detection Settings

Auto Area Correction

The automatic area correction function works on mesh fences and glass surfaces, but if it results in an unintended detection area, you can disable the automatic correction function.

[mm,m]

Detection Configuration

Auto Area Correction

Sensitivity (100 - 60000 msec)

Sensitivity: recommend to be less than 1000 [msec] when detecting fast-moving objects.

Minimum Target Width (10 - 1000 mm)

Minimum Target Width: For body detection, recommend setting 250 [mm]. For hand detection, apply less than 50 [mm].

Detection Range 1 (1 - 15 m)

Detection Range 2 (1 - 15 m)

Offset (0 - 500 mm)

Sensitivity

Specify the Time for Detection Judgment.

Minimum Target width

Specify the size of the detected object.

Detection Range 1

Specify the detection area limitation in the horizontal axis for Area View.

Detection Range 2

Specify the detection area limitation in the vertical axis for Area View.

Offset

Specify the offset from the boundary when setting the detection area.

To reduce false alarms, an offset of 100 mm or more is recommended.

[inch,ft]

Detection Configuration

Auto Area Correction

Sensitivity (100 - 60000 msec)

Sensitivity: recommend to be less than 1000 [msec] when detecting fast-moving objects.

Minimum Target Width (1 - 40 inch)

Minimum Target Width: For body detection, recommend setting 10 [inch]. For hand detection, apply less than 2 [inch].

Detection Range 1 (4 - 49 ft)

Detection Range 2 (4 - 49 ft)

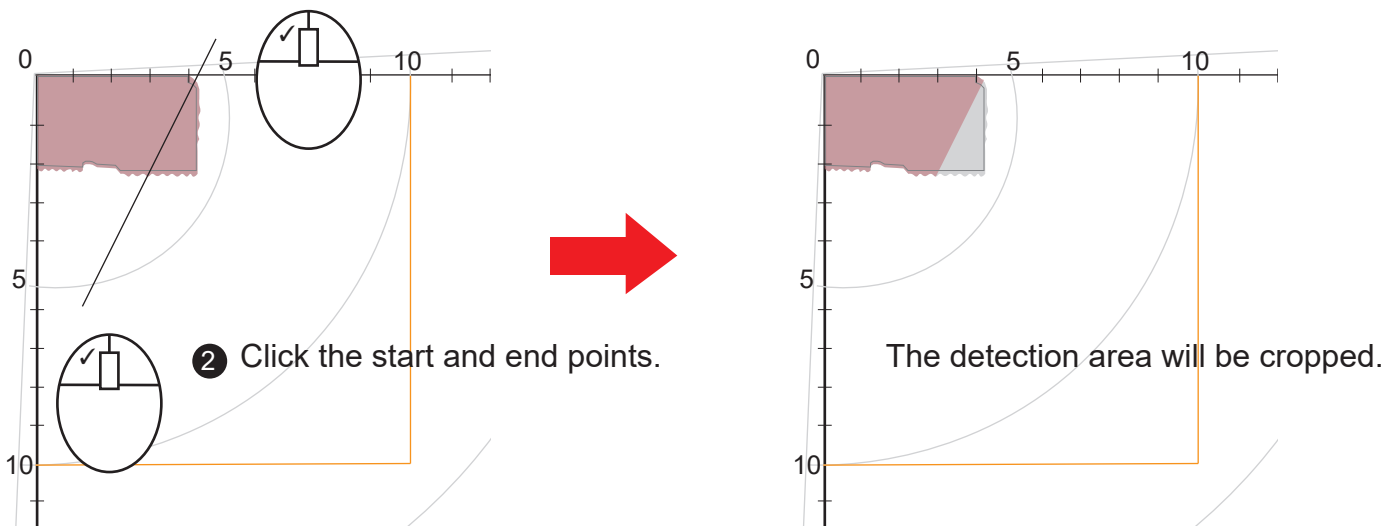
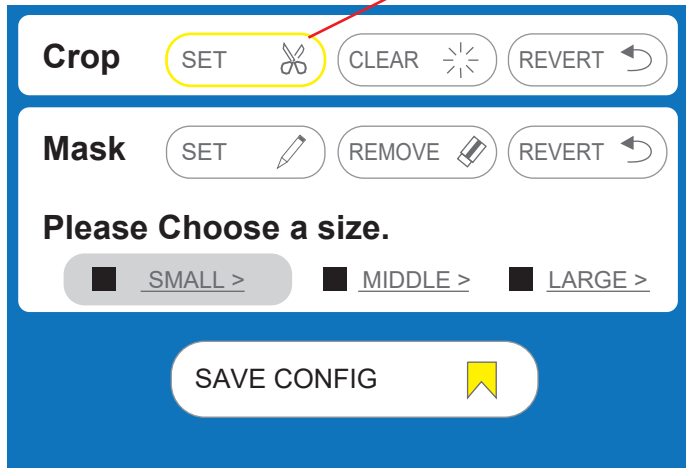
Offset (0 - 20 inch)

3-2. Detection Area Editing Function

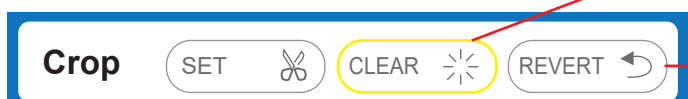
3-2-1. Crop

This function enables “cropping” off the detection area.
Follow steps ①—③ to apply.

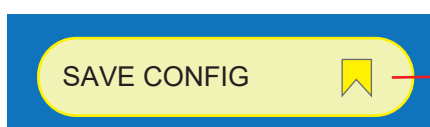
① Press the “SET” button.



CLEAR
Delete the Crop history.



REVERT
Clear the tasks after pressing the “SET”

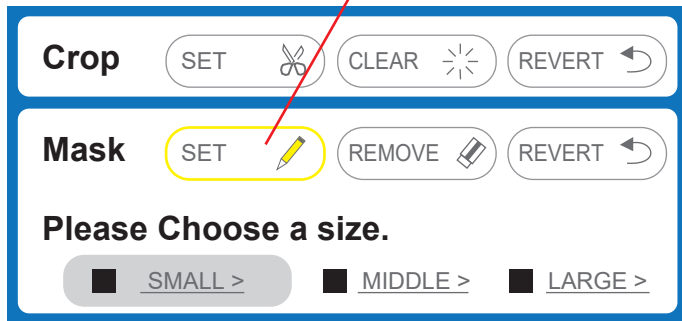


③ After editing, press “SAVE CONFIG”.

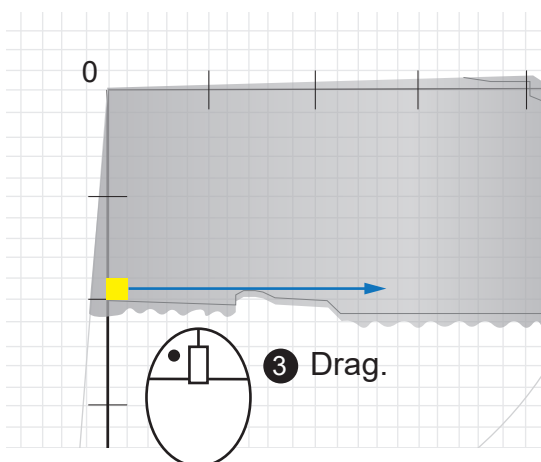
3-2-2. Mask

This function enables “masking” off the detection area.
Follow steps ①—④ to apply.

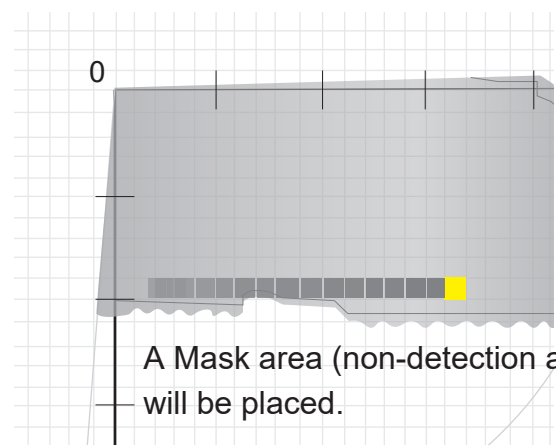
① Press the “SET” button.



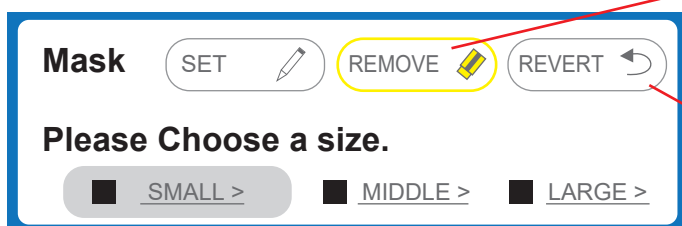
② Select the Mask size.



③ Drag.



A Mask area (non-detection area)
will be placed.



REMOVE

Delete the Mask area placed by dragging.

REVERT

Clear the tasks after pressing the “SET”

SAVE CONFIG

④ After editing, press “SAVE CONFIG . ”

⚠ Caution

A physical object placed in the “masked” non-detection area may create a blind spot in the detection area.

4. Maintenance



RLS-1010L Version, 1.0.0 (20Feb2025)

- Overview
- Detection Configuration
- Maintenance**
Change I/O configurations, user account settings, and perform firmware update.
- Detection History Analysis

Output Settings

Firmware Update

Alarm Allocation and Status

	ALARM STATUS	ALARM	ANTI-MASKING	ANTI-ROTATION	SOILING OF LASER WINDOW	TROUBLE	TAMPER	DEVICE MONITORING	
OUTPUT 1	OFF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TEST
OUTPUT 2	OFF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TEST
OUTPUT 3	ON !	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TEST
INPUT 1	OFF								

Change Authentication

New User ID

New Password

New Password (again)

Firmware Update

No file chosen

Custom Configuration

No file chosen

REBOOT

FACTORY RESET

Device Restart

Factory Reset

Custom Configuration

This feature is designed for advanced parameter adjustments for applications that are difficult to configure via the Web UI. Contact OPTEX for assistance.

Change User ID/Password

User ID

Allowed Characters: a-z, A-Z, 0-9, _ . -

Maximum Length: 20 characters

Password

Allowed Characters: a-z A-Z 0-9 ! # \$ % & ' () * + , - . / ; < = > ? @ ^ _ ` { | } ~ " Single-byte spaces

Maximum Length: 20 characters

4-1. Output Settings

Alarm Allocation and Status

You can change the output settings.
The output will be assigned to the locations marked with "✓".

TEST

Pressing the "TEST" button will output a signal from the corresponding OUTPUT# for five seconds.

Alarm Allocation and Status

	ALARM STATUS	ALARM	ANTI-MASKING	ANTI-ROTATION	SOILING OF LASER WINDOW	TROUBLE	TAMPER	DEVICE MONITORING	
OUTPUT 1	OFF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TEST
OUTPUT 2	OFF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TEST
OUTPUT 3	ON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TEST
INPUT 1	OFF								

SAVE CONFIG

SAVE CONFIG

Pressing the button will apply the changes.

4-2. Firmware Update

Firmware Update

CHOOSE FILE
No file chosen

UPDATE

Select file.

UPDATE

Pressing the button after selecting the firmware will initiate the update, and the screen will switch to standby mode.

5. Detection History Analysis

Area View

Detection locations and sizes for the last 100 detections after booting.

Detection Object Chart

Detection object sizes and stay time for the last 100 detections after booting.



RLS-1010L Version, 1.0.0 (20Feb2025)

Overview

Detection Configuration

Maintenance

Detection History Analysis
The alarm reduction effect is simulated based on past detection results. Click "SAVE CONFIG" to adapt the settings. The settings will be retained despite power-off, but the detection results will be cleared.

Crop SET ✂ CLEAR ☀ REVERT ↶

Mask SET ✎ REMOVE ✎ REVERT ↶

Please Choose a size.

SMALL > MIDDLE > LARGE >

Detection Configuration

Detection Range 1 (1 - 15 m)

Detection Range 2 (1 - 15 m)

Offset (0 - 500 mm)

Object Size (10 - 1000 mm)

Stay Time (100 - 60000 msec)

Estimated Alarm Reduction 5 alarms → **5 alarms** SAVE CONFIG 🚩

Detection Setting Simulation

The reduction in detection count can be simulated based on the new settings. For usage and settings details, refer to the "3. Detection Configuration" section.

⚠ Caution

Detection data will be lost when the power is turned off. Simulation results will not be reflected unless you press SAVE CONFIG.

Objects no longer detected due to the new setting will be indicated by a color change of the circle from red to blue.

RLS-1010L Version, 1.0.0 (20Feb2025)

Crop SET CLEAR REVERT

Mask SET REMOVE REVERT

Please Choose a size.

SMALL > MIDDLE > LARGE >

Detection Configuration

Detection Range 1 (1 - 15 m)

Detection Range 2 (1 - 15 m)

Offset (0 - 500 mm)

Object Size (10 - 1000 mm)

Stay Time (100 - 60000 msec)

Estimated Alarm Reduction

6 alarms → **3 alarms**

To enable the detection settings, press "SAVE CONFIG". This will also generate a report.



Press "SAVE CONFIG" will generate a report as a PDF file.



Signature

*: Required

Site Name / Site ID *

Device ID (Asset number) *

Installation Engineer Name *

Installer Name *

Are you certified? *

Yes

No

Additional Note

OK CANCEL

The entered content will be included in the report along with the device information.

Navigate to the PDF Preview Page.

Return to the Detection History Analysis Page.

<PDF Preview>



RLS-1010L Version, 1.0.0 (20Feb2025)

Signature

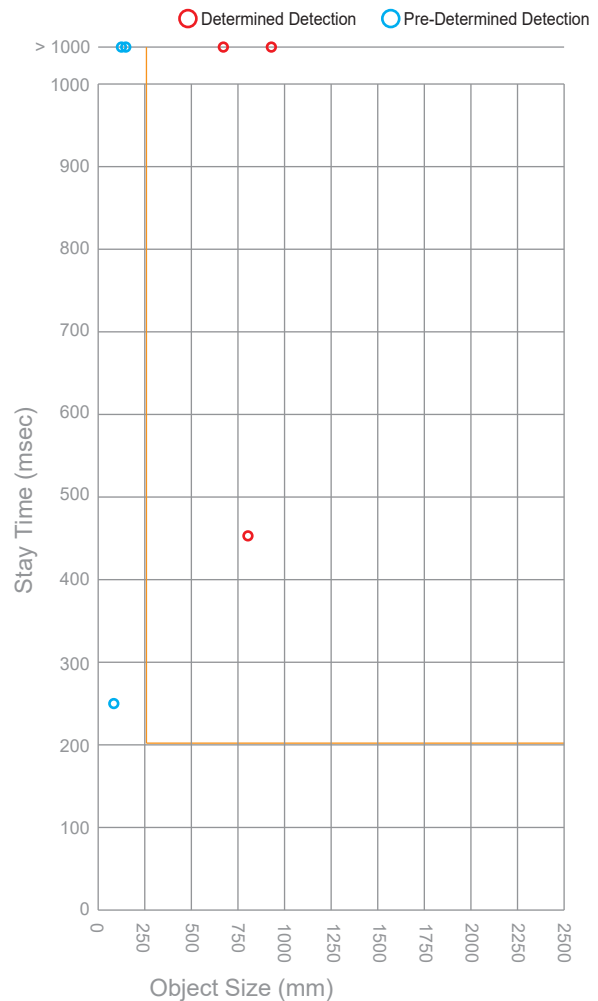
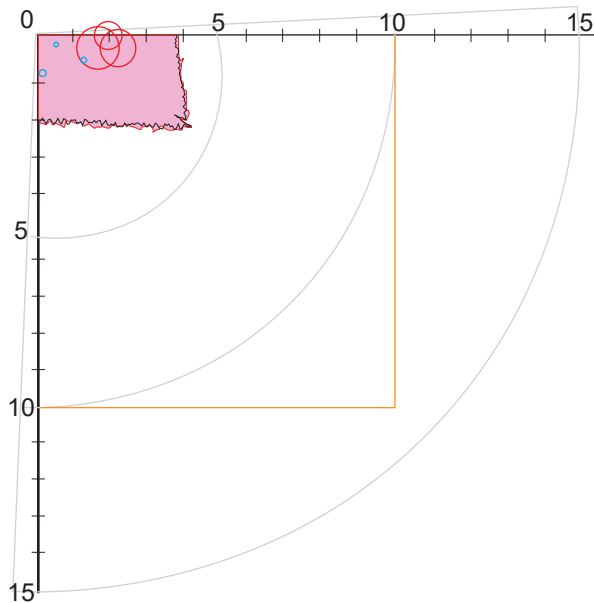
Site Names *****
 Device ID *****
 Engineer's Name *****
 Company Name *****
 Additional Note *****

Status

Date 2025-03-17T15:29:58+09:00
 Soiling Ratio of Laser Window 0 %

Detection Information

Model RLS-1010L
 Version 1.0.0 (20Feb2025)
 Serial No. 2449505510014S
 MAC Address 00:1f:d1:-46:00:0d
 Sensitivity (msec) 200
 Minimum Target Width (mm) 250
 Detection Range 1 (m) 10
 Detection Range 2 (m) 10
 Offset (mm) 100



Estimated Alarm Reduction



6 alarms



3 alarms

■ EU contact information



<https://navi.optex.net/cert/contact/>



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