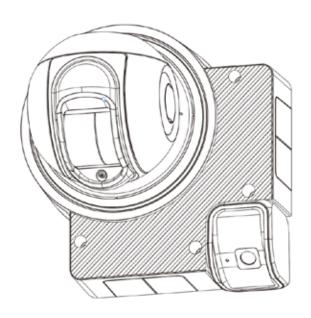
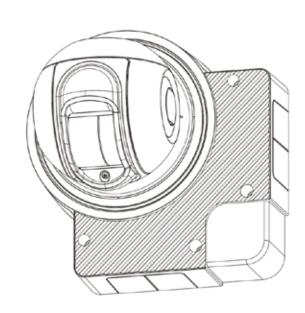




REDSCAN mini-Pro RLS-2020V/RLS-2020A

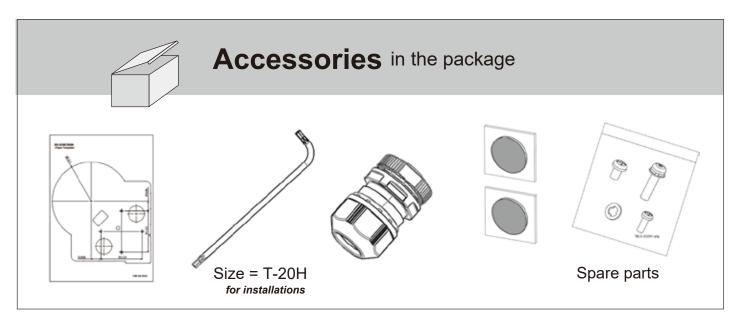


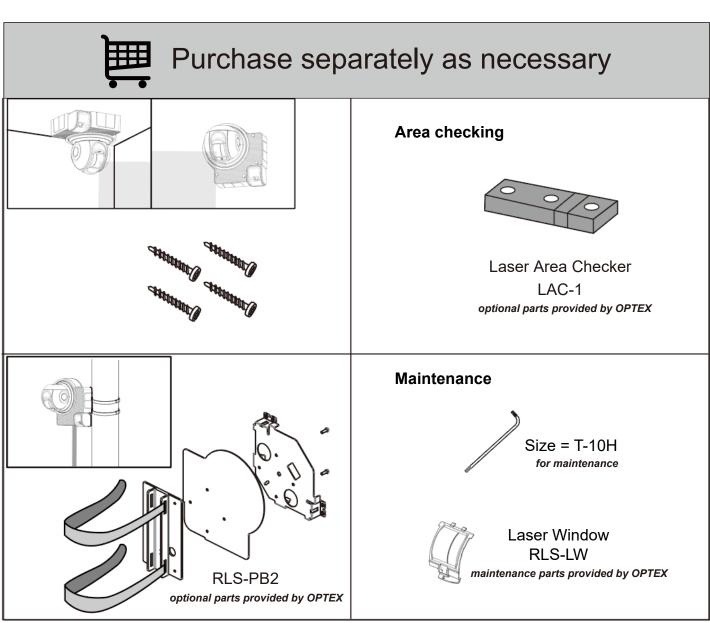
RLS-2020V



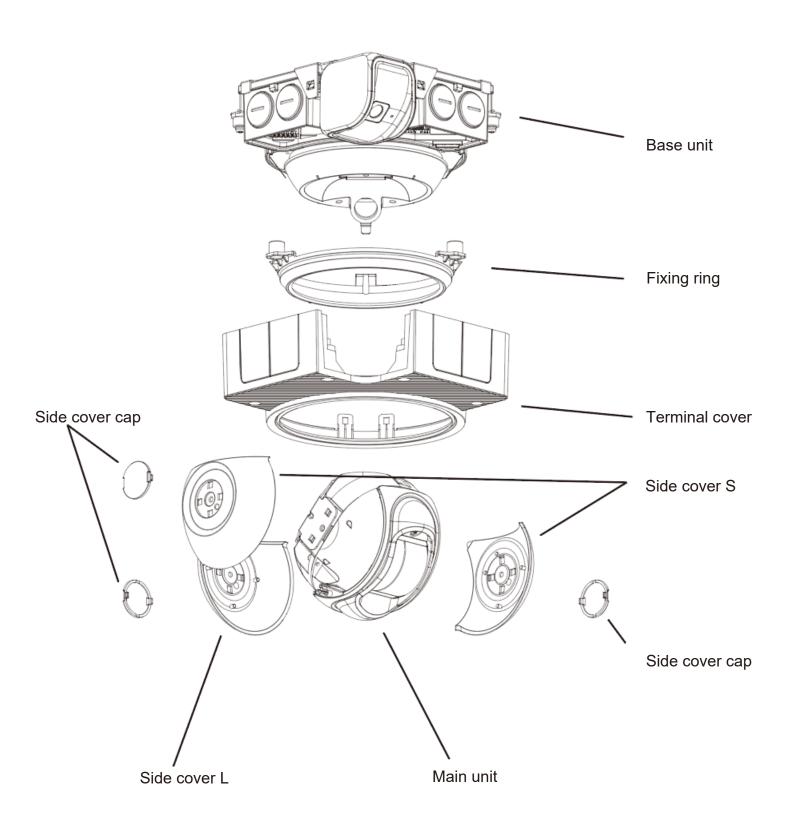
RLS-2020A

To find out useful hints, tips and information about OPTEX products and services, please visit www.optex.net

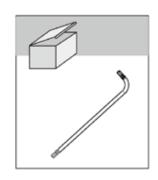


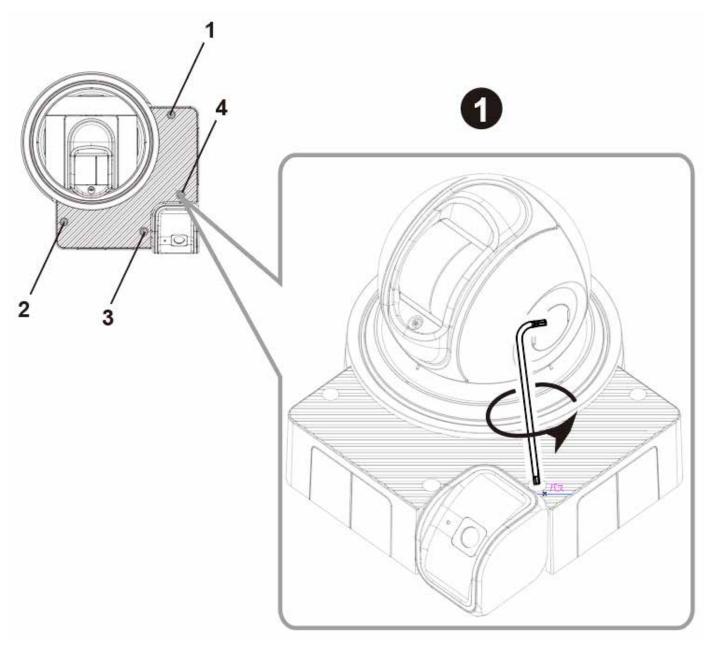


Parts identification



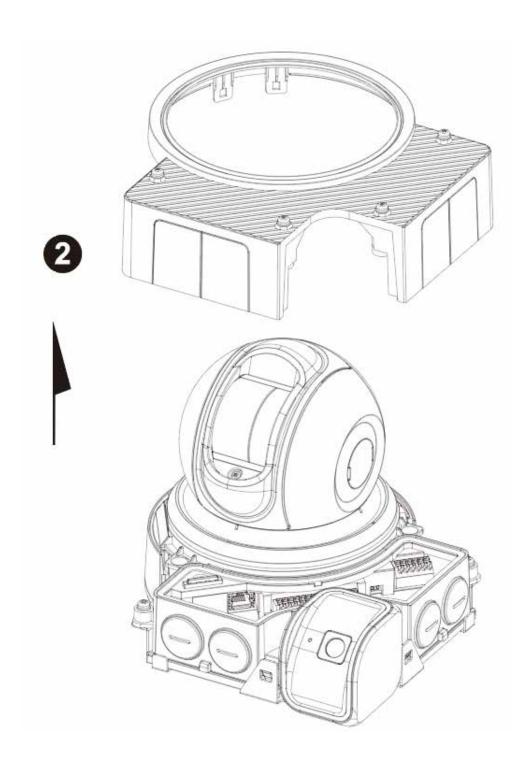
1 Disassembly

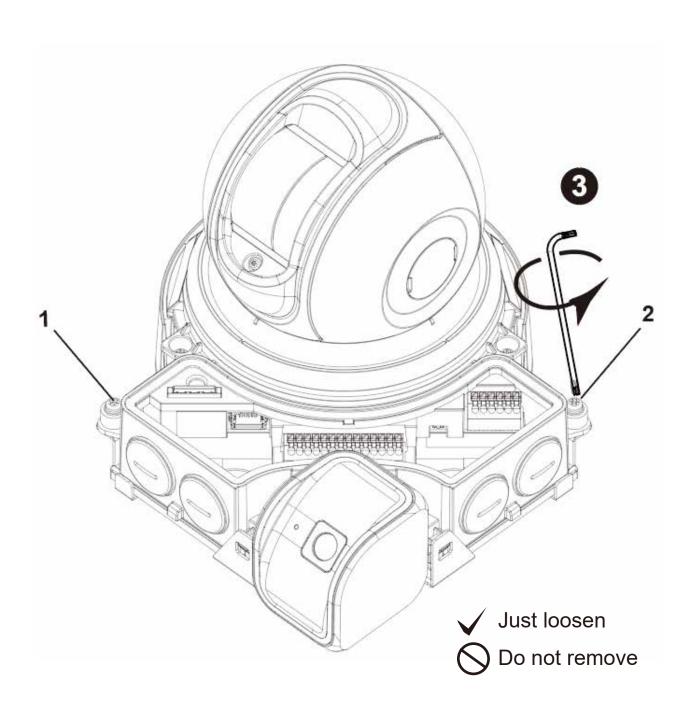


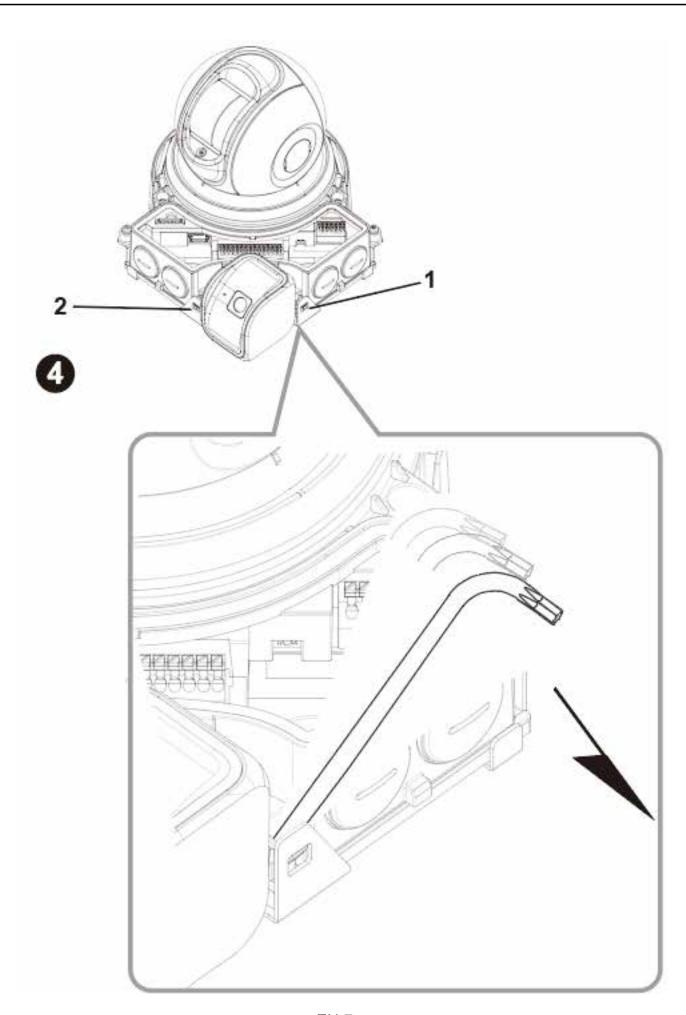


✓ Just loosen

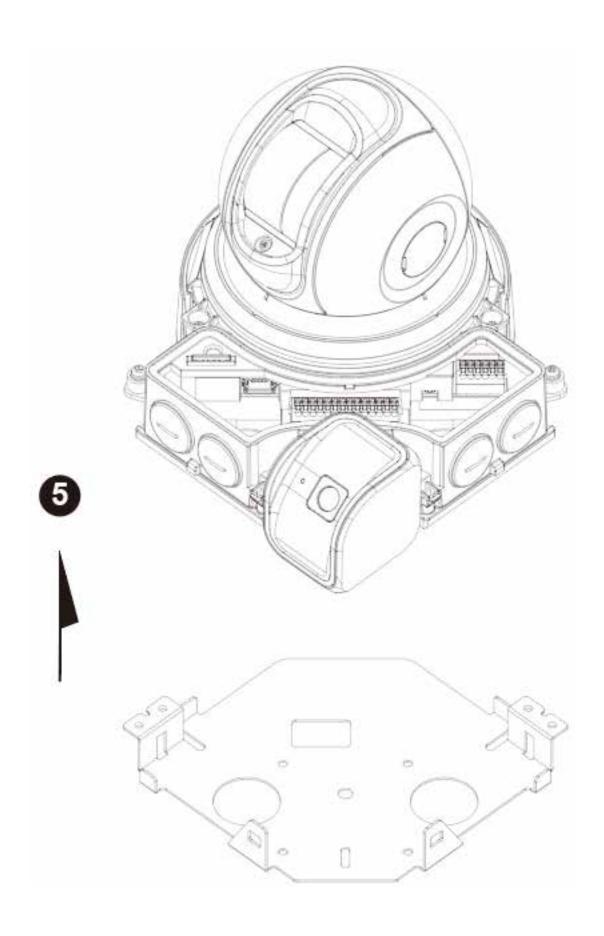
O not remove



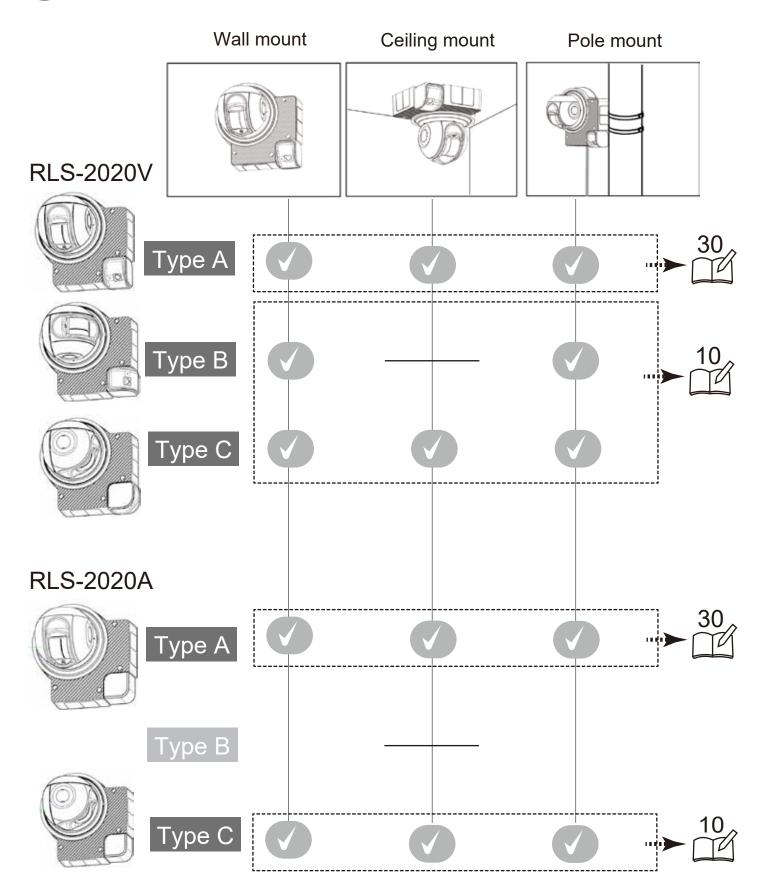


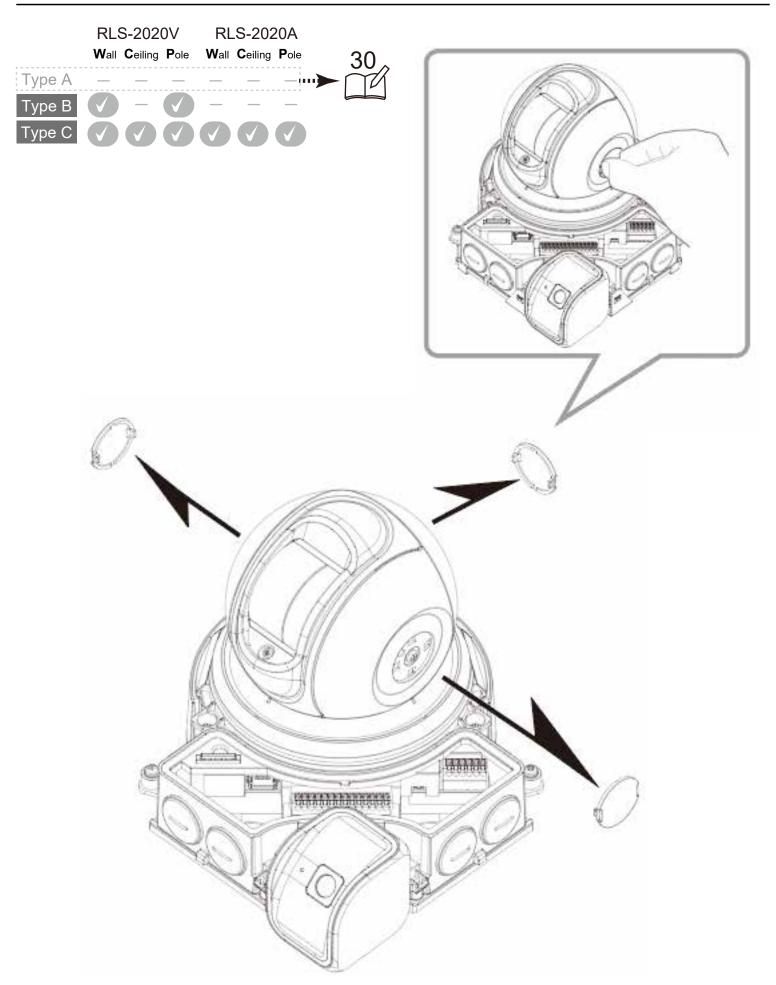


EN-7



2 Transformation





RLS-2020V RLS-2020A

Wall Ceiling Pole Wall Ceiling Pole

Type A Type B













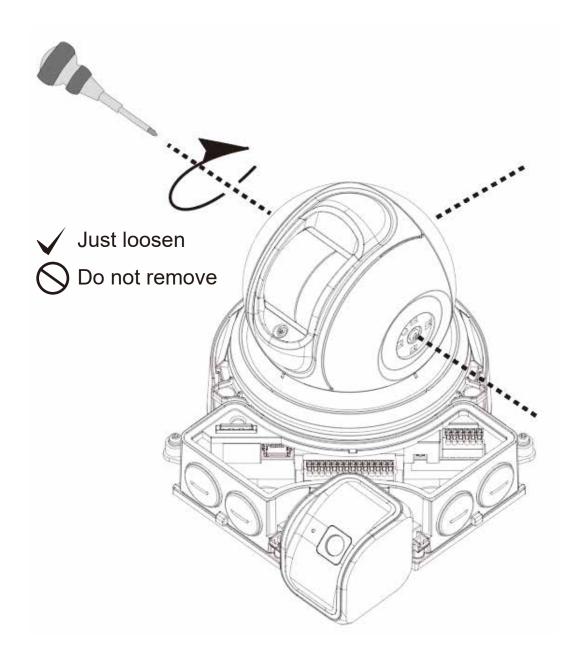












RLS-2020V

RLS-2020A

Wall Ceiling Pole

Wall Ceiling Pole

Type A

Type B

Type C



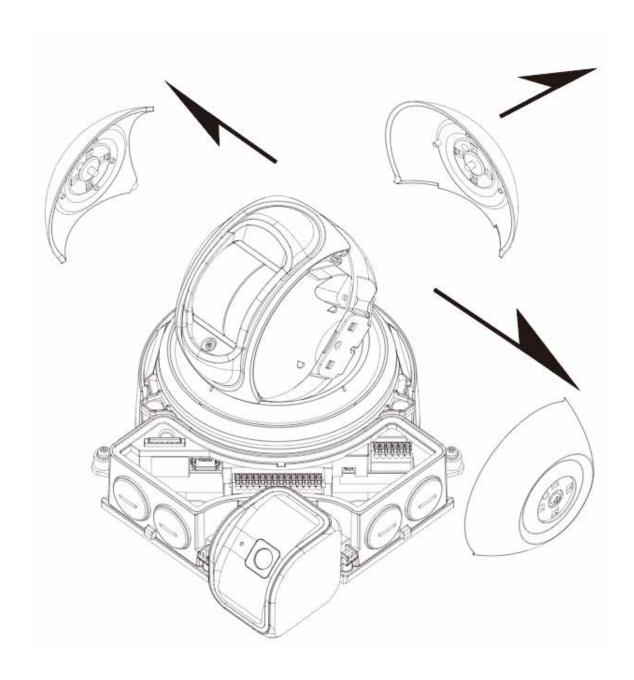












RLS-2020V

RLS-2020A

Type A

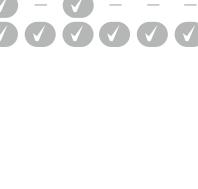
Wall Ceiling Pole Wall Ceiling Pole

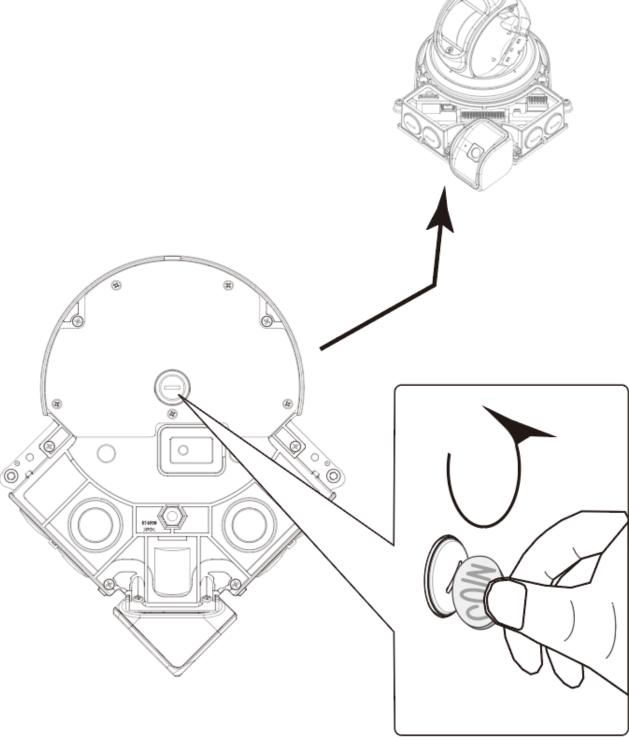












RLS-2020V RLS-2020A
Wall Ceiling Pole Wall Ceiling Pole

Type A Type B













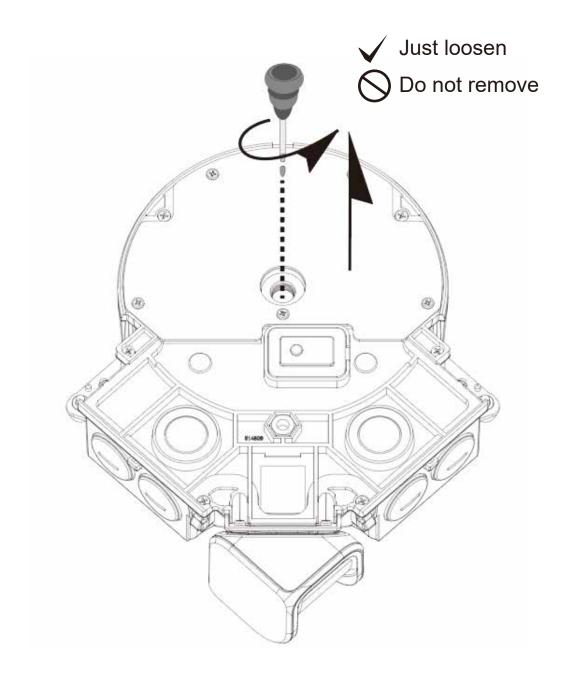


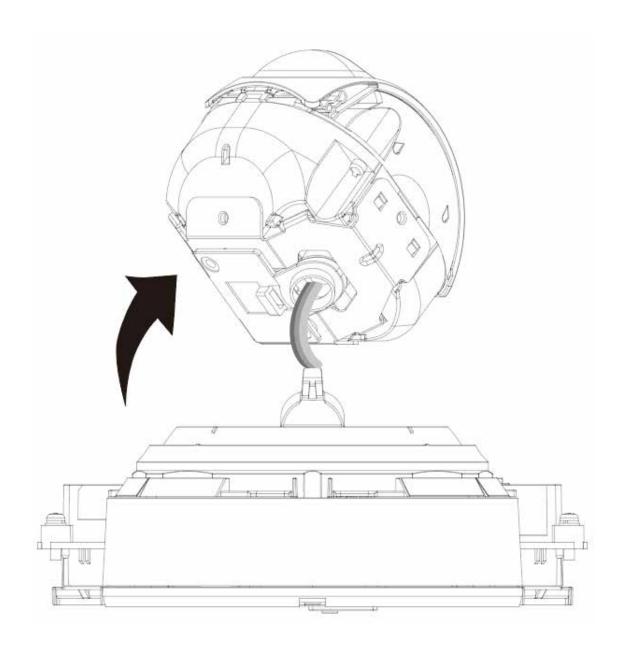


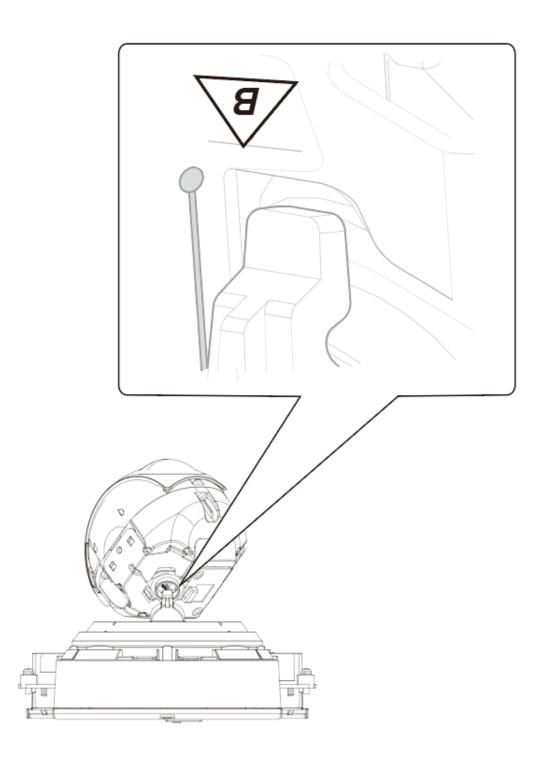


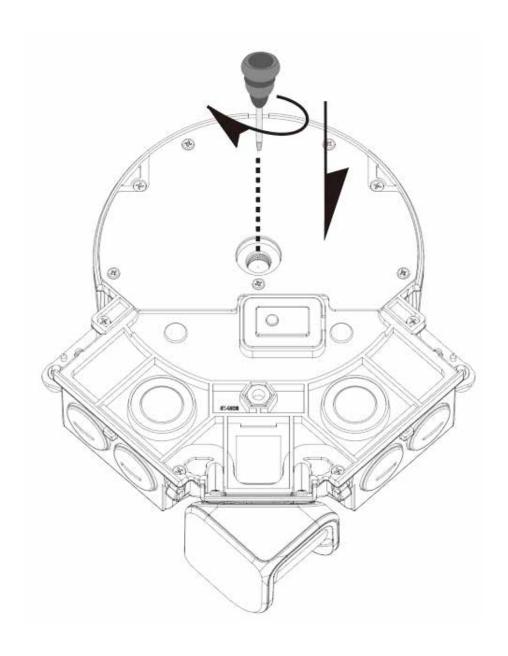












RLS-2020V RLS-2020A Wall Ceiling Pole Wall Ceiling Pole Type A Type B Type C

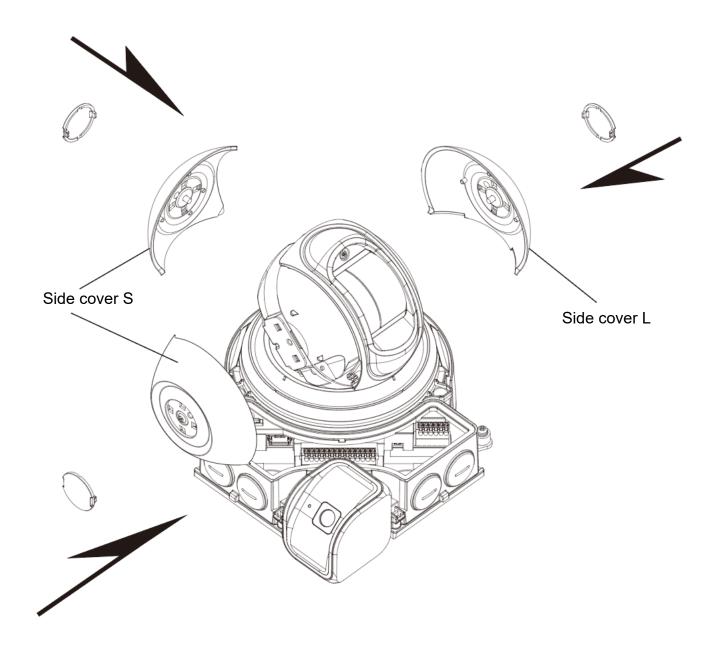
RLS-2020V RLS-2020A

Wall Ceiling Pole Wall Ceiling Pole

Type A — — — — — —

Type B — — — — — — —

Type C — — — — — — —

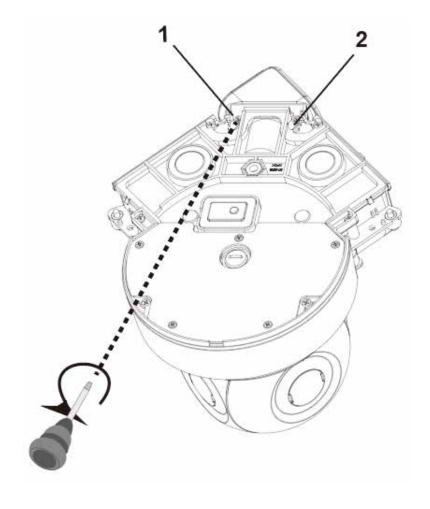


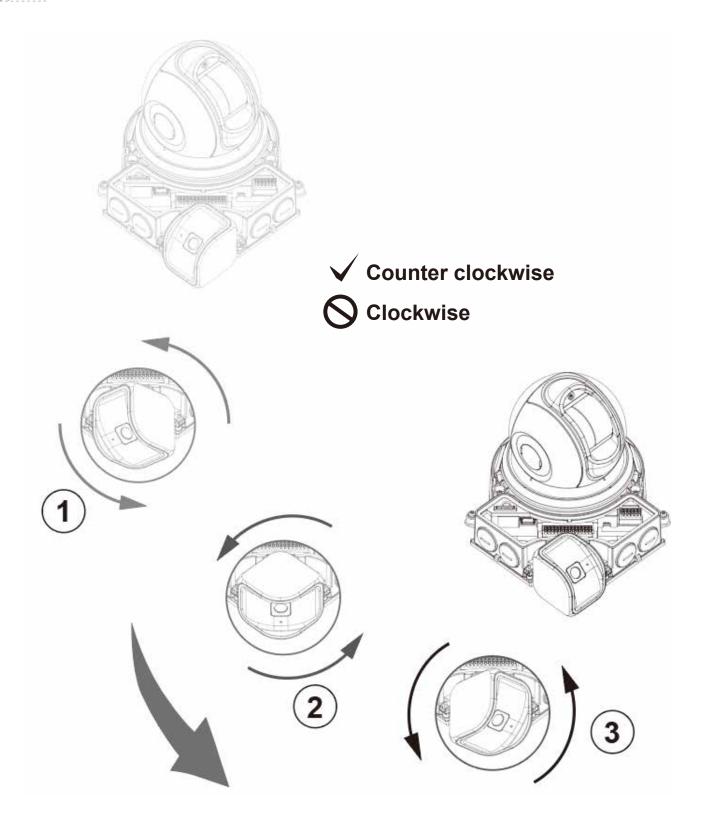
Type A
Type B
Type C



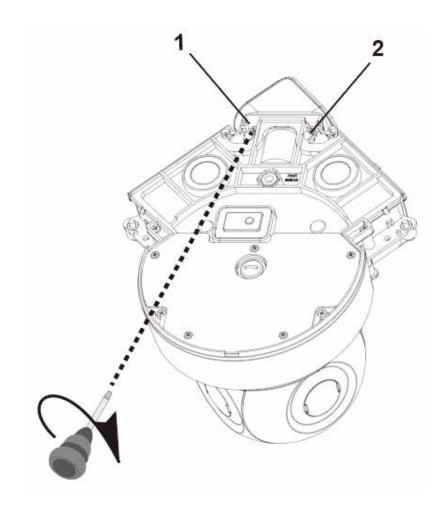


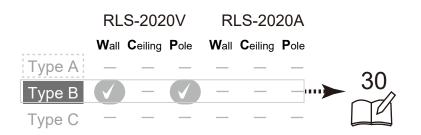


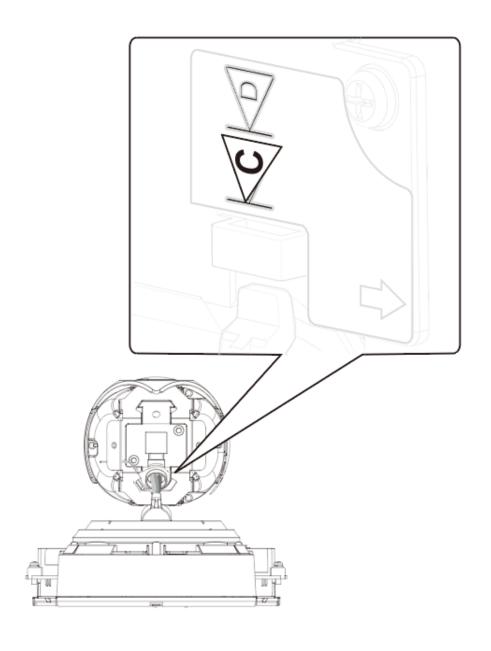


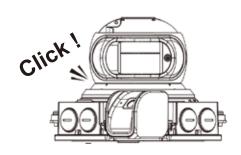


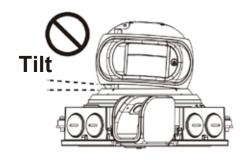
	RLS	S-202	0V	RLS-2020A		
	W all	Ceiling	P ole	W all	Ceiling	P ole
Type A	_	_	_	_	_	_
Type B		_	\bigvee	_	_	_
Type C	_	_	_	_	_	_





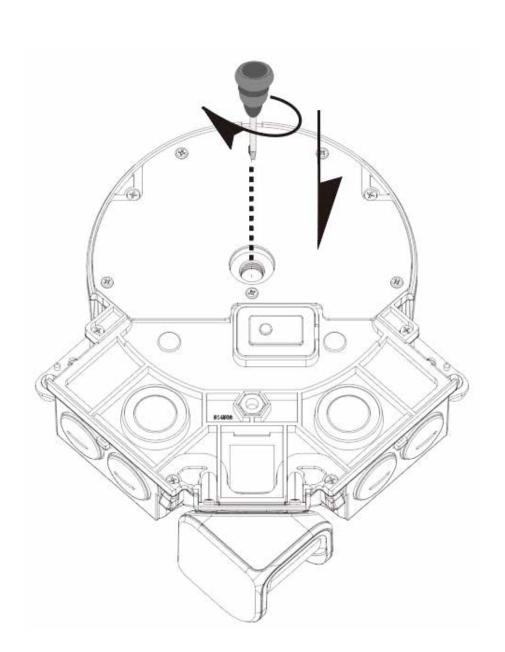






Type A

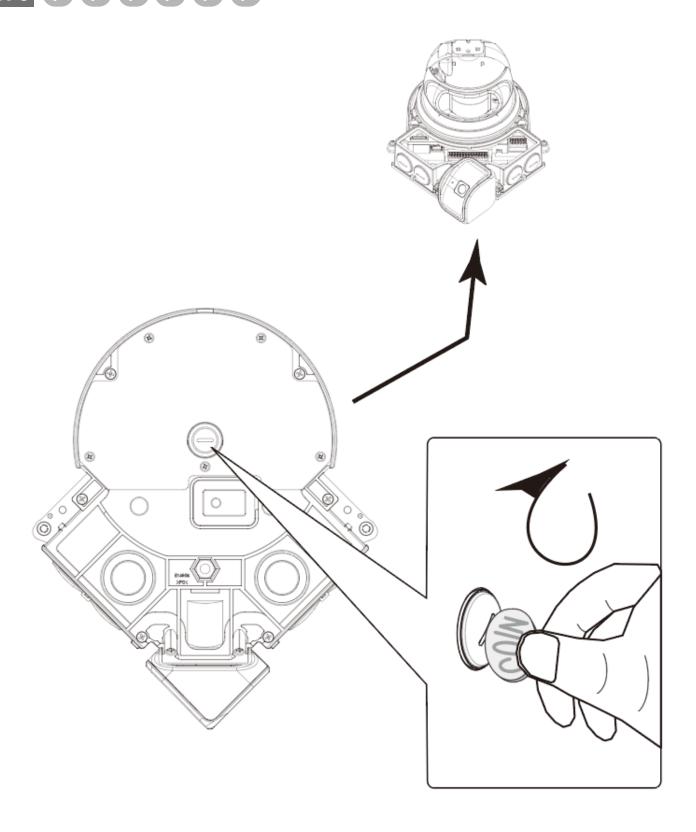
Type B Type C

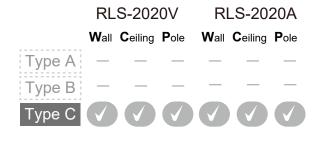


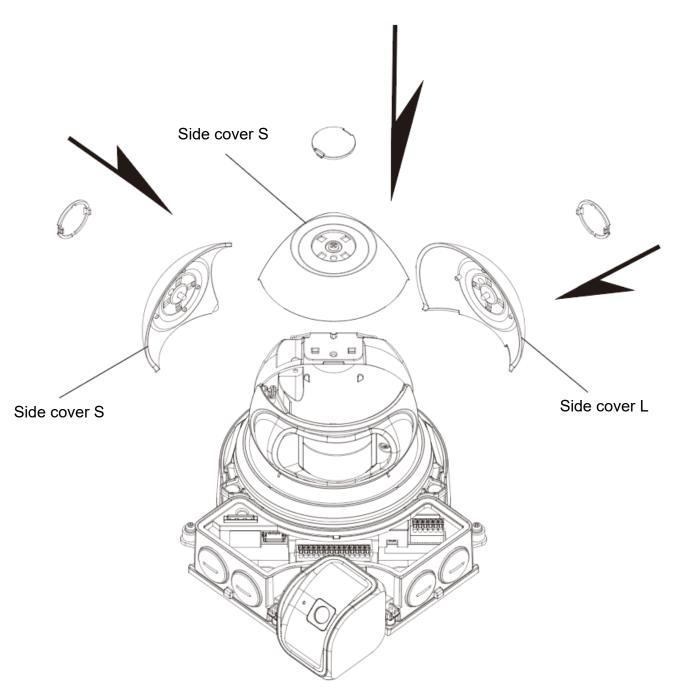
RLS-2020V RLS-2020A

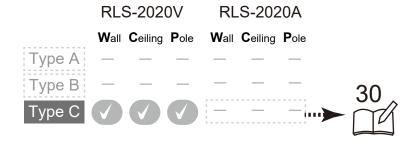
Wall Ceiling Pole Wall Ceiling Pole

Type A - - - - -
Type B - - - -
Type C V V V V











Type A

Type B Type C

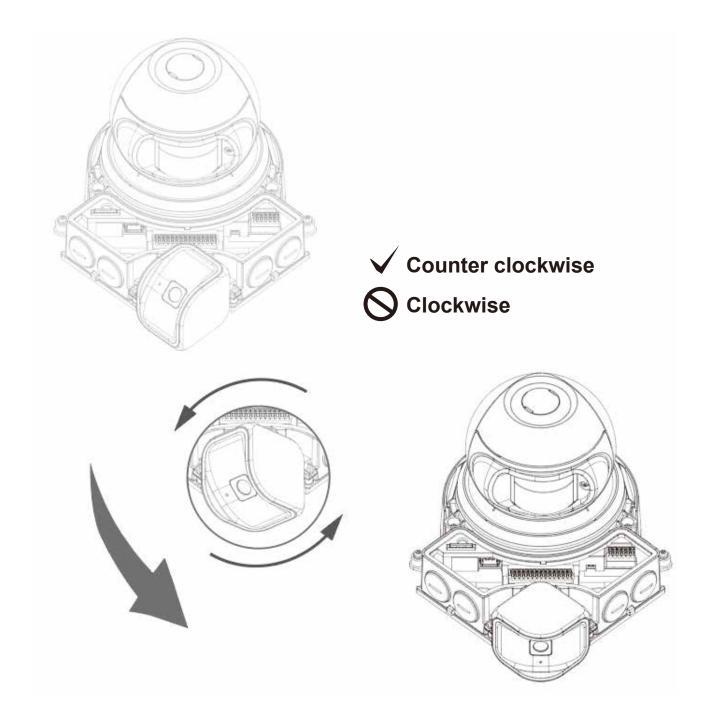
 RLS-2020V
 RLS-2020A

 Wall Ceiling Pole
 Wall Ceiling Pole

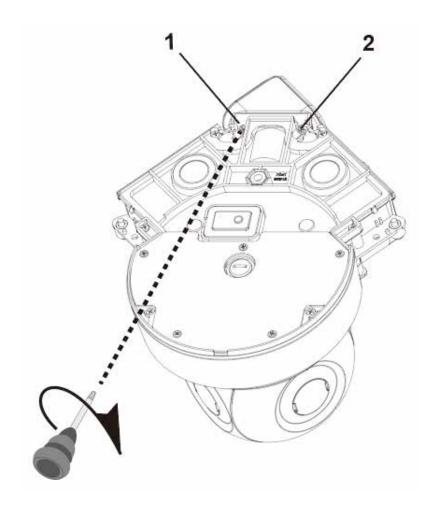
 —
 —

 —
 —

 —
 —



	RLS-2020V			RLS-2020A		
	W all	Ceiling	P ole	W all	Ceiling	P ole
Type A	_	_	_	_	_	_
Type B	_	_	_	_	_	_
Type C	$\sqrt{}$				-	



Mounting

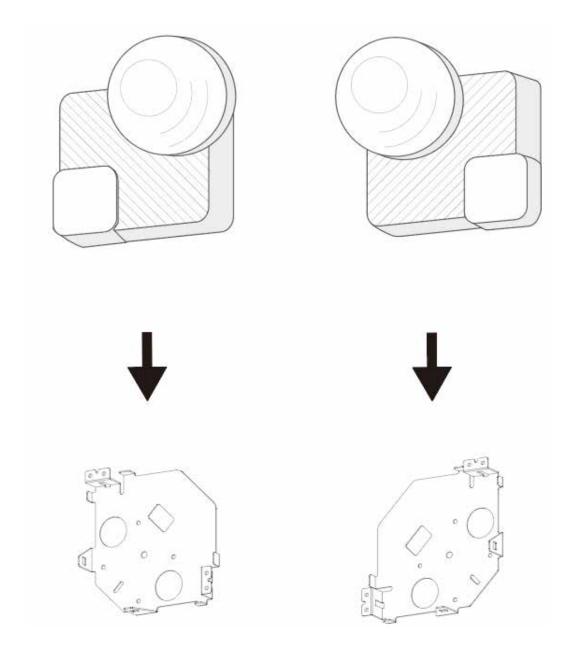
RLS-2020V RLS-2020A

Wall Ceiling Pole Wall Ceiling Pole

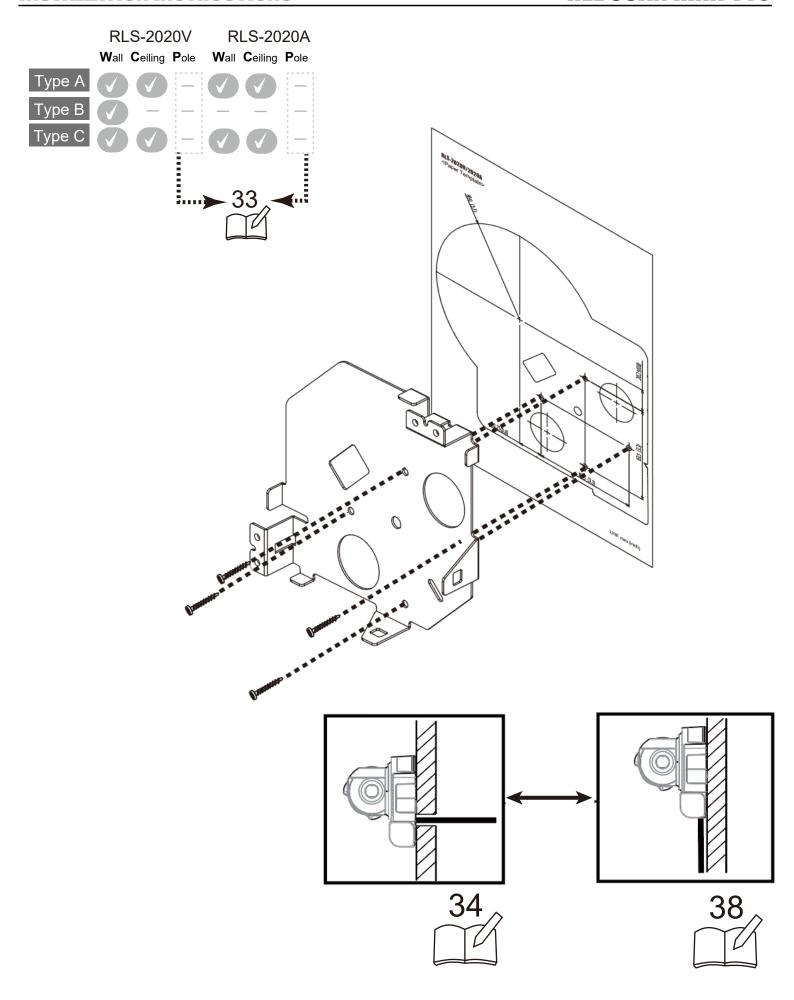
Type A

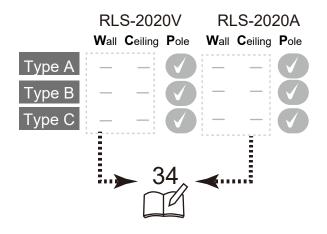
Type B

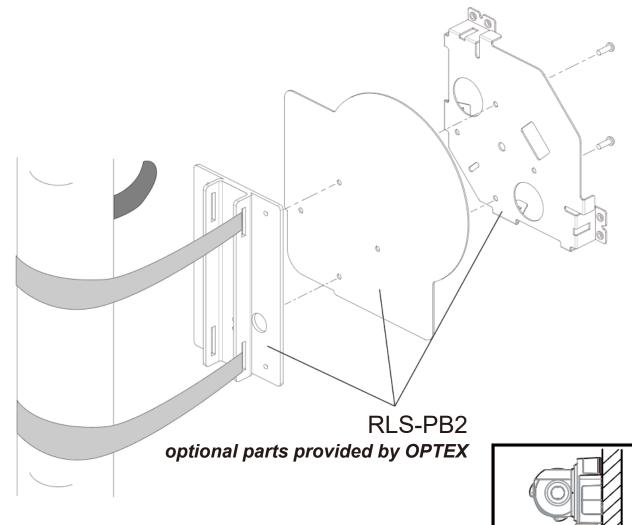


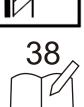


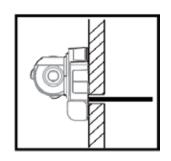
Ceiling mount Pole mount Wall mount

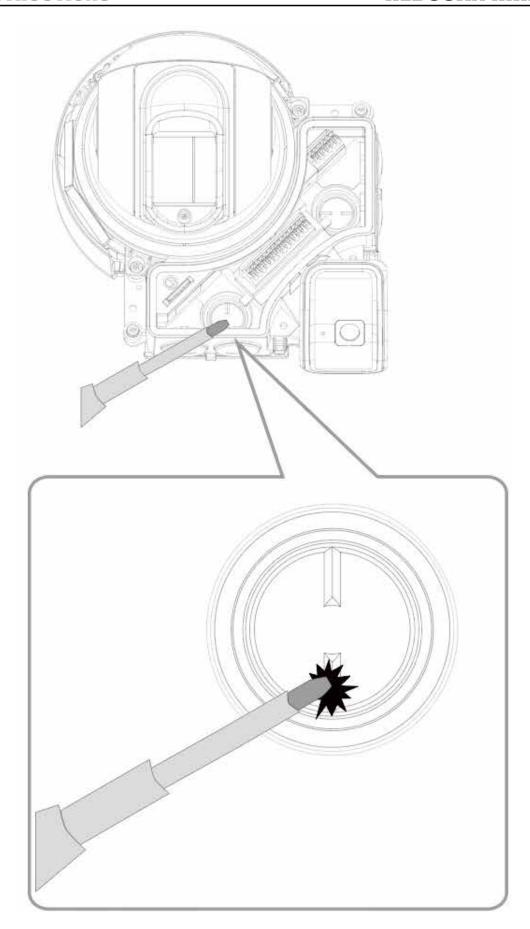


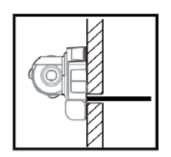


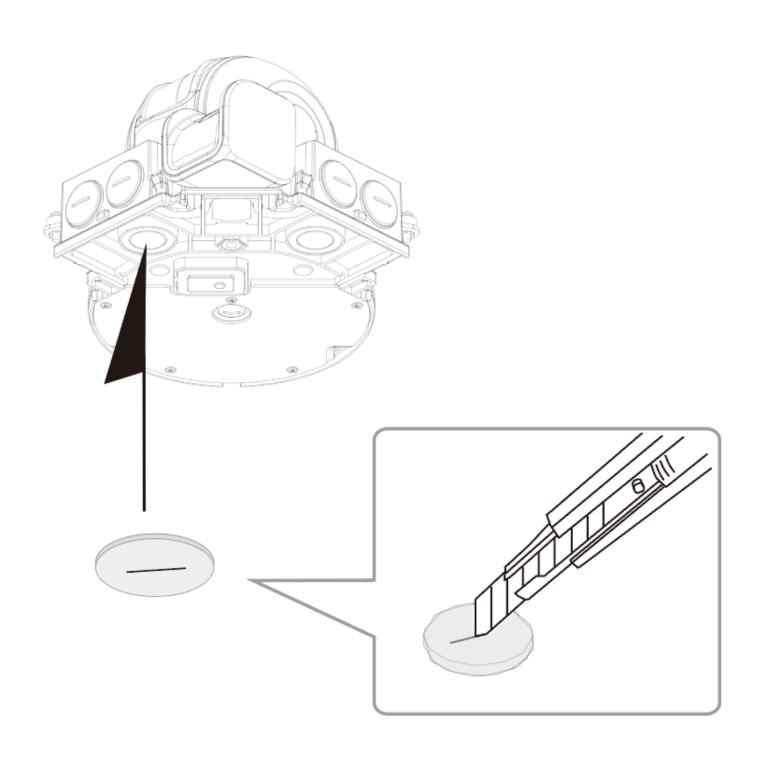


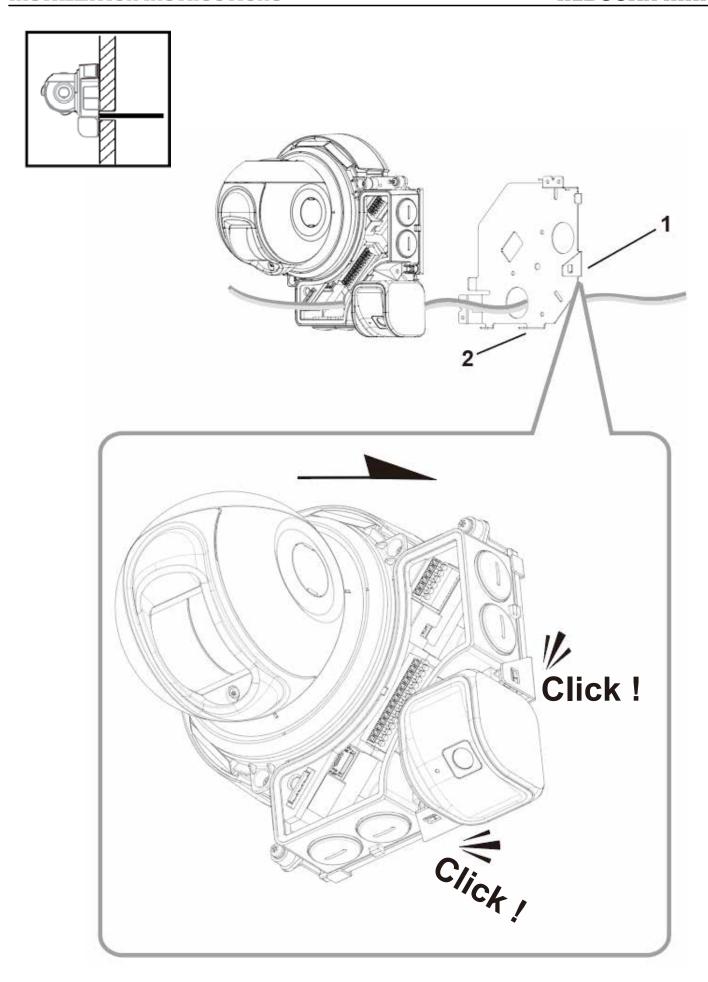


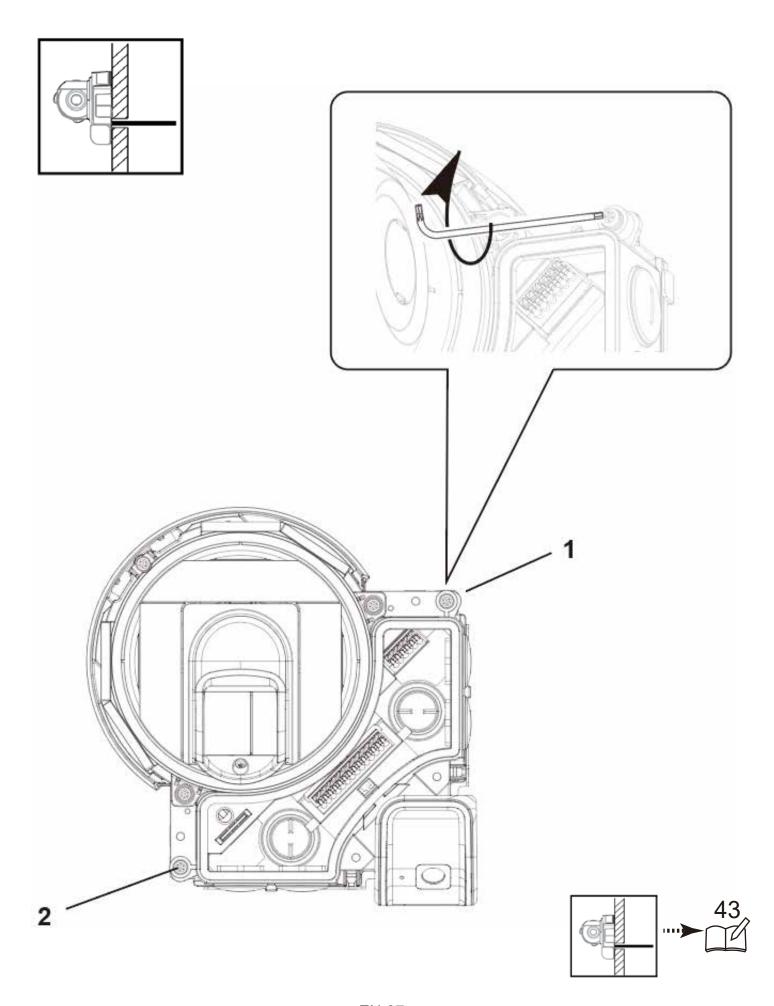


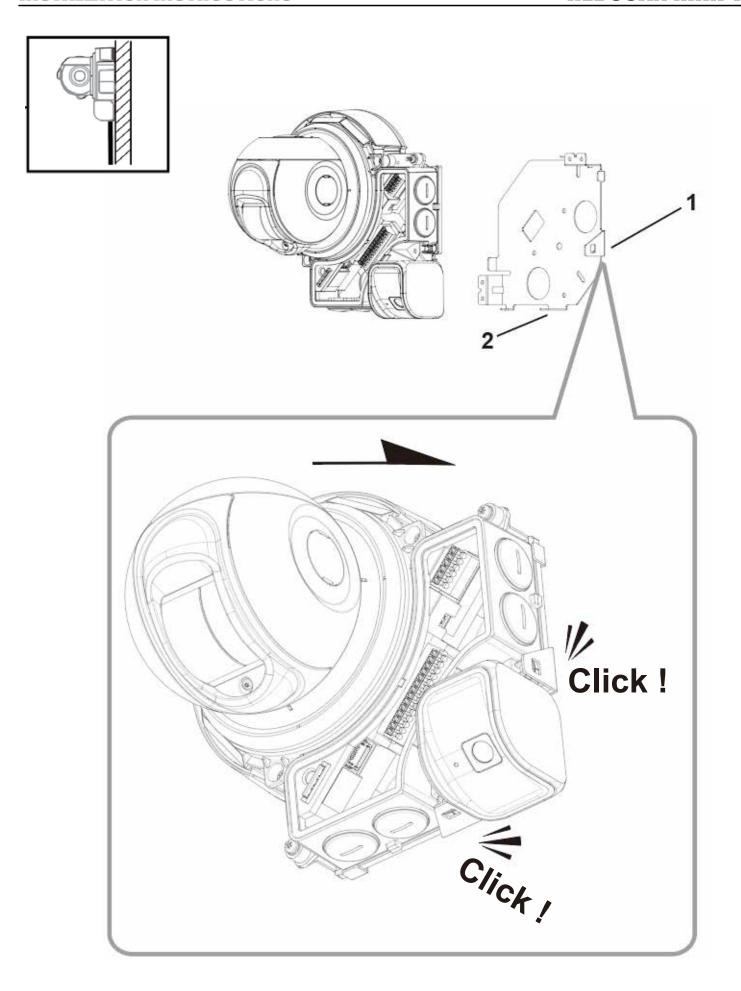


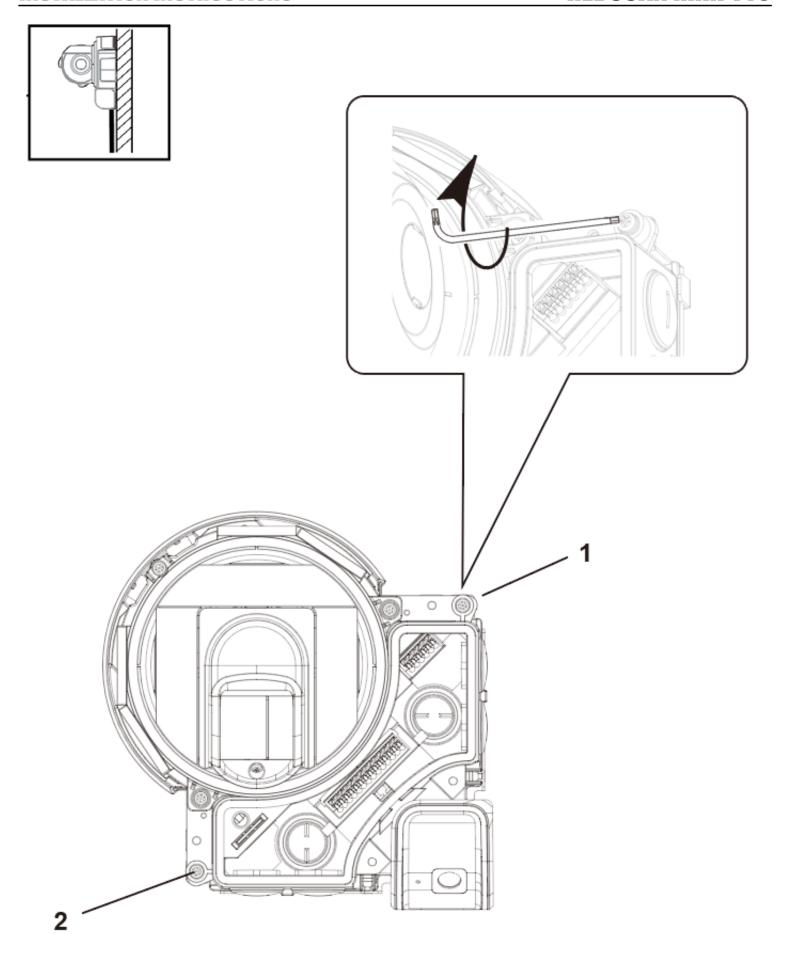


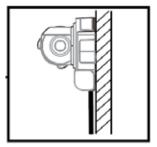


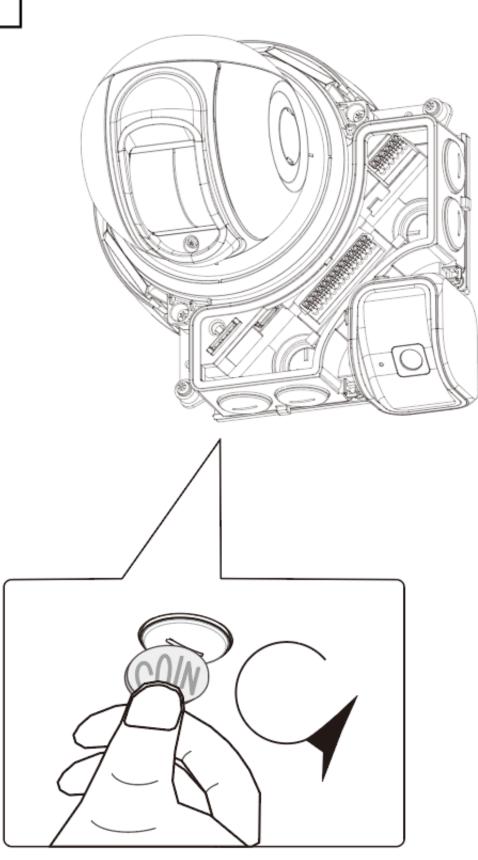


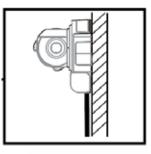


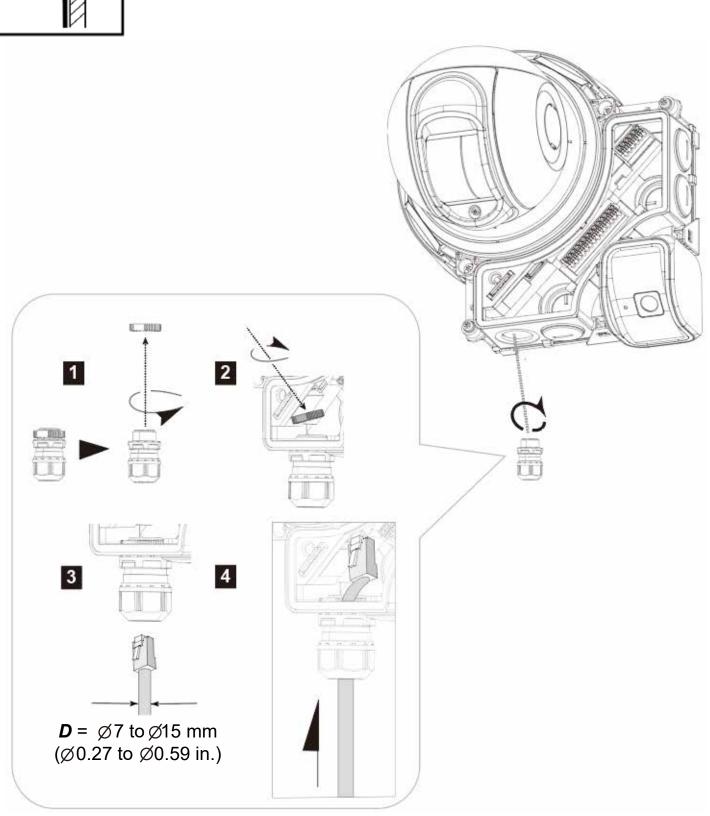


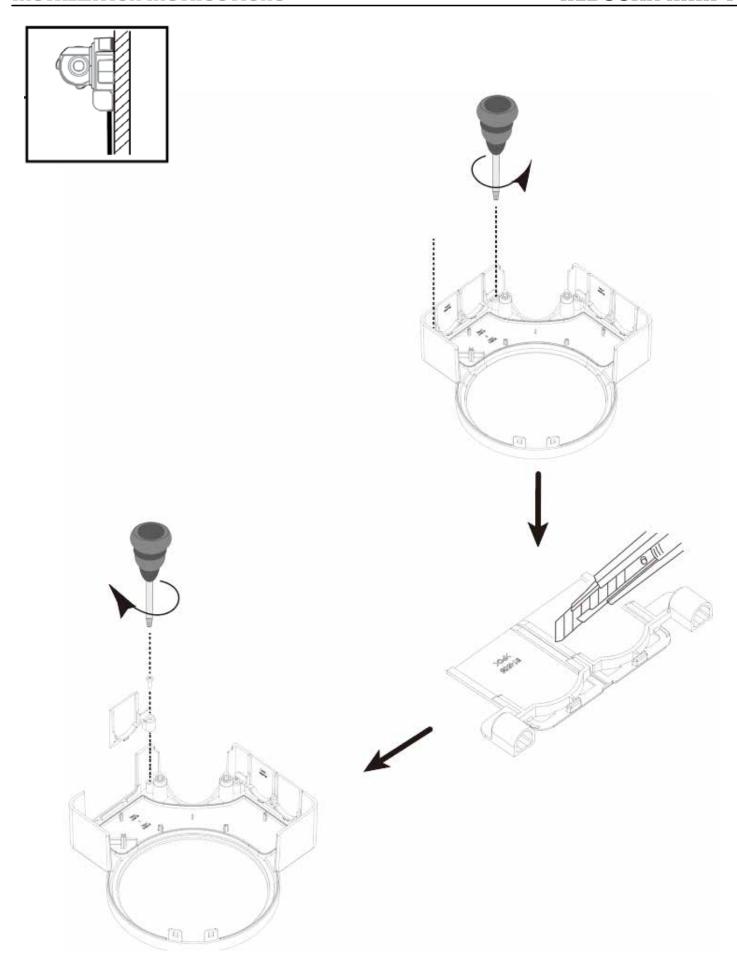






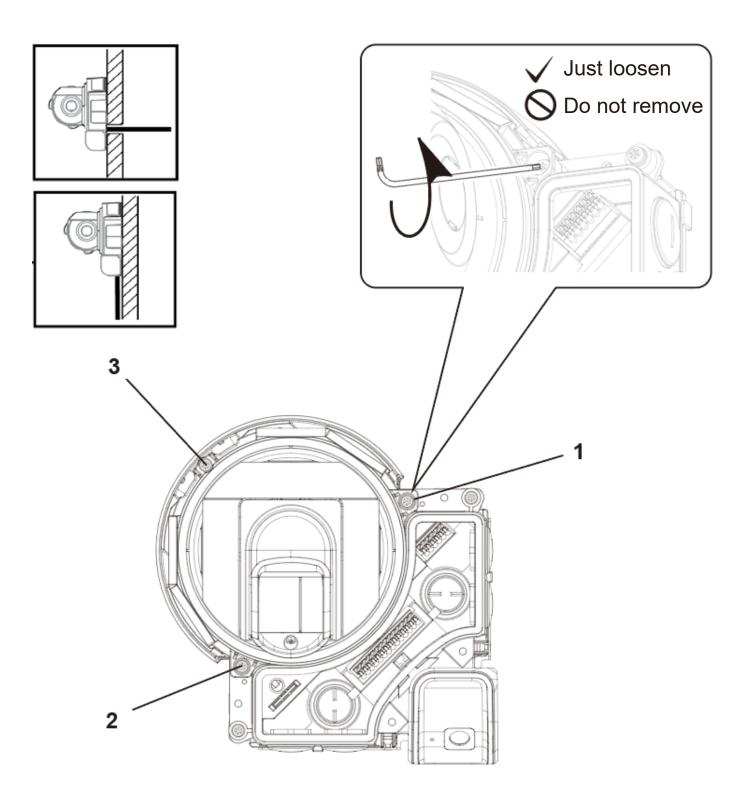


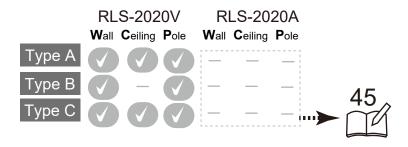


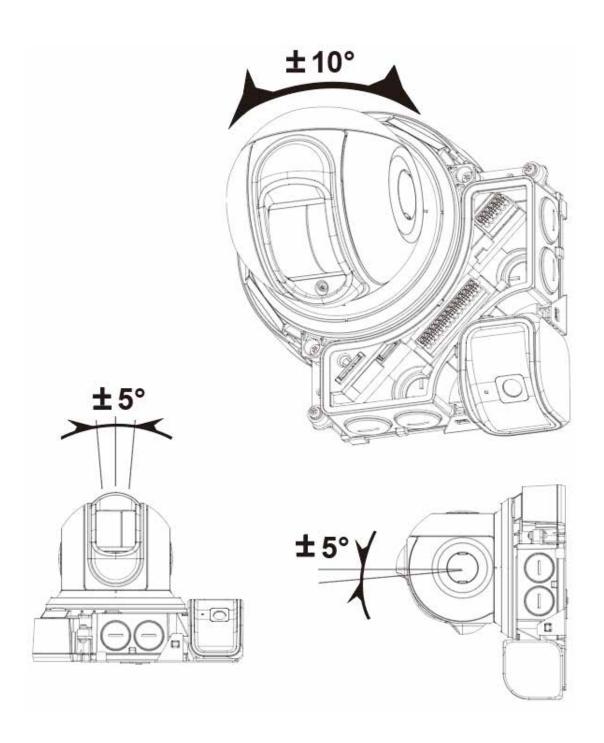


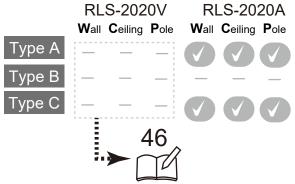
(4)

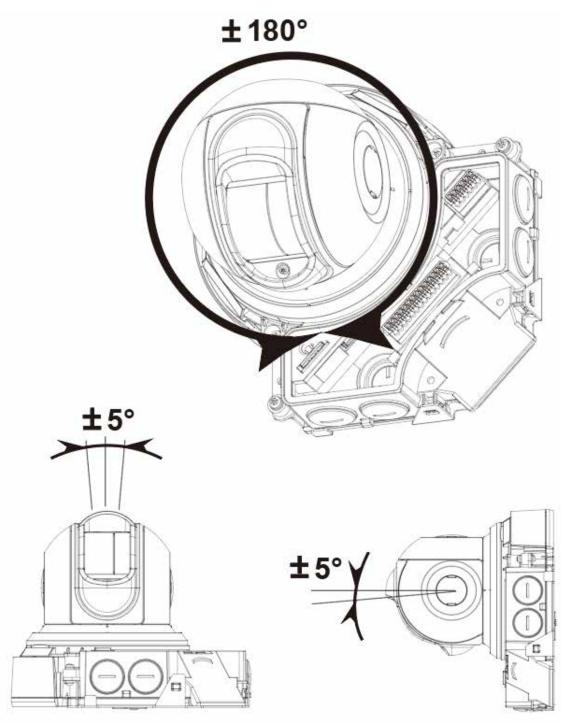
Area adjustment

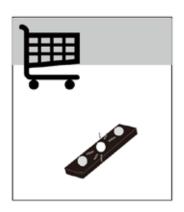




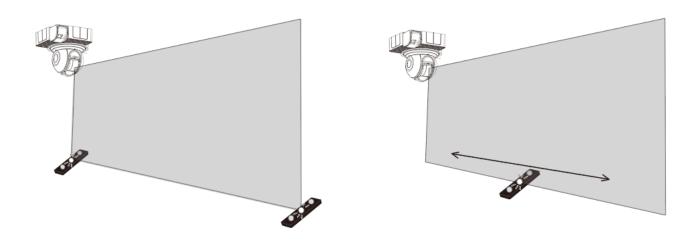




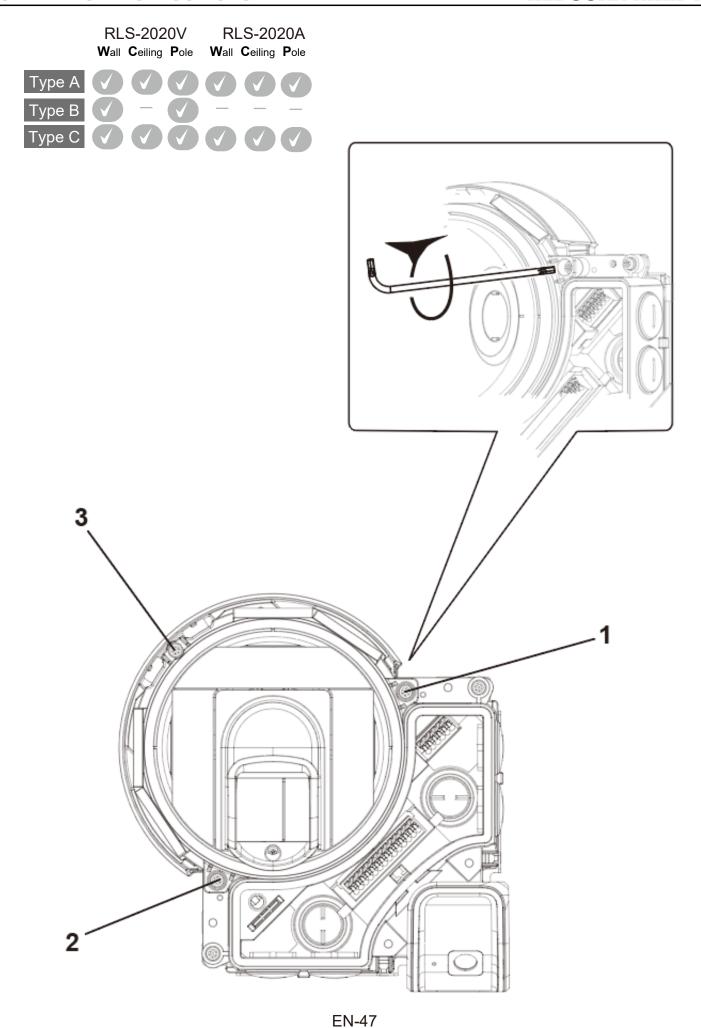


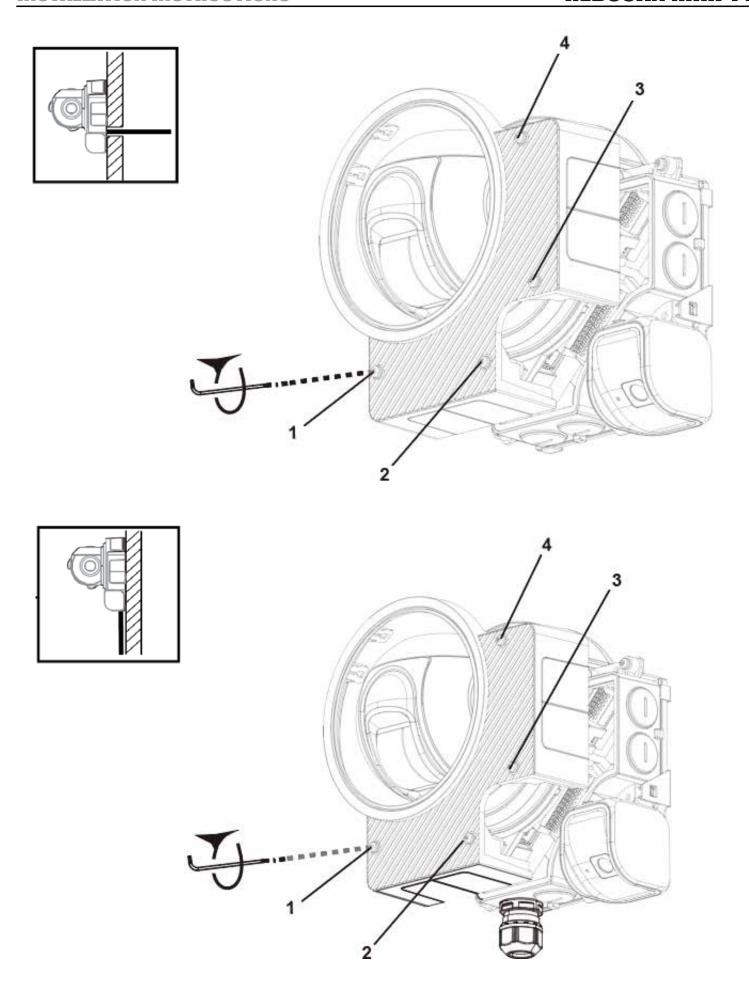


Laser area adjustment with optional area checker **LAC-1**

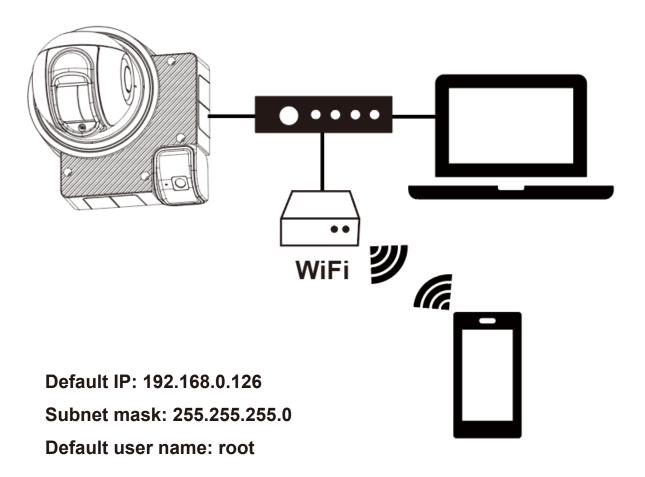








5 Settings



Support web browser:

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



https://navi.optex.net/manual/50500

Important Product Information

Setting Manual

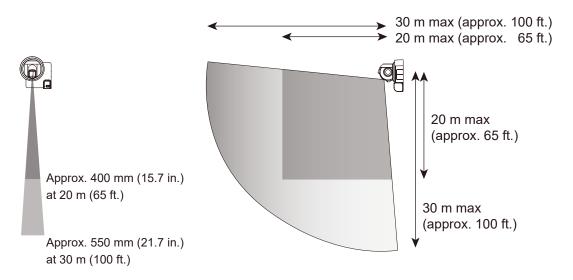
Installation Instruction

Quick Installation

Setting Manual LangSelection

Detection range

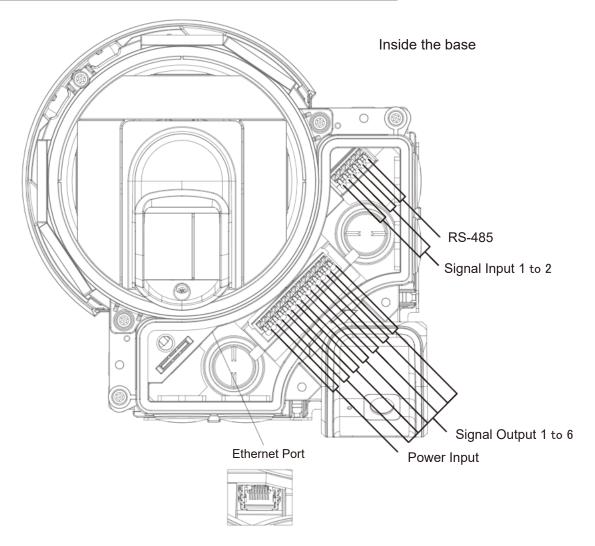
RLS-2020V/RLS-2020A



Normal detection range

20 x 20 m (Approx. 65 x 65 ft.), 95 degree square

When using "Detection range expansion" radius 30 m (Approx. 100 ft.) 95 degree, Fan-shaped area.



The length of the power wire must be less than the figures listed below.

Wire	Detector 24 V DC	
size	RLS-2020V	RLS-2020A
AWG20	40	45
(0.52mm ²)	(130)	(150)
AWG18	60	70
(0.83mm ²)	(200)	(230)
AWG16	100	110
(1.31mm ²)	(320)	(370)
		m (ft.)

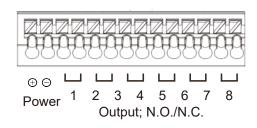


Strip the cover of the wiring about 9 mm.

Note >>

Some PoE hubs have a limit for wattage. Connect the detectors to PoE hubs without exceeding the limit referring to the PoE hub's instructions.

Output terminal



The six output terminals can be configured as N.O./N.C.

They are however fixed as open when the unit is not energized.

The outputs are programmable from options below.

Alarms

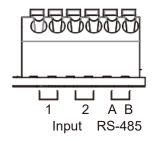
- Master alarm (MO)
- Zone alarm (A1)
- Zone alarm (Allocating mode)

(A11, A12, A21, A22, B11, B12, B21, B22)

Troubles

- Anti-masking (AM)
- Anti-rotation (AR)
- Soiling (SO)
- Environmental disqualification (DQ)
- Device trouble (TR)
- Tamper output (TA)
- Device monitoring (DM)

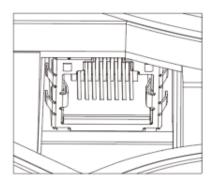
Input terminal



The function of the signal input can be selected from the following options.

- Detection profile switching
- Area set
- Turn on LEDs
- Sensor check

Ethernet Port (PoE)



The Ethernet Port inside the base is for constant connection. PoE is supported.

Default

- IP address : 192.168.0.126 - Subnet mask : 255.255.255.0

- Default gateway: 192.168.0.1

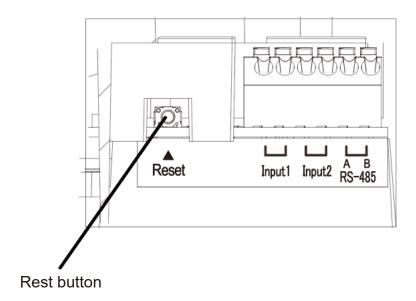
Powering ON

Startup conditions

Enter the DC power to the power supply input terminal, or connect PoE power supply equipment to the Ethernet Port (PoE). After power on, all the LEDs are turned on for approx. 70 seconds and then the status and alarm LED is turned off. During this period, REDSCAN mini-Pro itself performs initial settings.

Reset button

If you forget your IP address or password, you can initialize it by following the steps below.

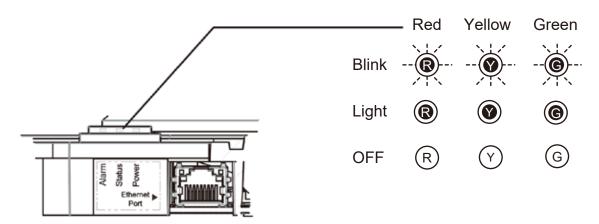


- 1. Turn Off the Power supply. Remove the terminal cover.
- 2. Power on, then press and hold the reset button.
- All LEDs blinking after 70 seconds.Then, in this status, release the reset button.
- 4. REDSCAN mini-Pro reboot itself.

Attach the terminal cover and reconnect REDSCAN mini-Pro.

Please note that IP address has initialized to the default

Default IP: 192.168.0.126



Detector condition		LED RYG
Warm-up (approx. 70 s)		® © ©
Stand-by		(R) (Y) (G)
Area setting		R
Alarm		® Y ©
Reset completed (by RESET button)		
Anti-masking		R Y - G Green blinks once. Yellow blinks once. Repeat
Anti-rotation	* ® (Y) (G)	R Yellow blinks twice. Repeat
Soiling		Green blinks once. Yellow blinks 3 times Repeat
Environmental Disqualification (DQ)		R Y - G x 4 Green blinks once. Yellow blinks 4 times
		Repeat

^{*} According to alarm status

Trouble condition	LED R Y G
Camera error	Green blinks once. Red blinks twice. Repeat
Over heat	Green blinks once. Red blinks 3 times Repeat
Hardware error	Green blinks once. Redblinks 4 times · Repeat
Others	R Y - G - Y G G Green blinks once. Red blinks once.

ONVIF and RTSP

REDSCAN mini-Pro series supports ONVIF and RTSP.

Client application can get video stream of embedded camera in REDSCAN mini-Pro series. Username and password are common to ONVIF and RTSP.

Even if ONVIF is not used, create ONVIF account by the sequence above to use RTSP authentication.

ONVIF

ONVIF is an open industry forum that provides and promotes standardized interfaces for effective interoperability of IP-based physical security products.

See the site below for details. Specification are downloadable.

https://www.onvif.org/

ONVIF Device manager is popular tool in the industry. It enables accessing and testing ONVIF device. See the site below for details.

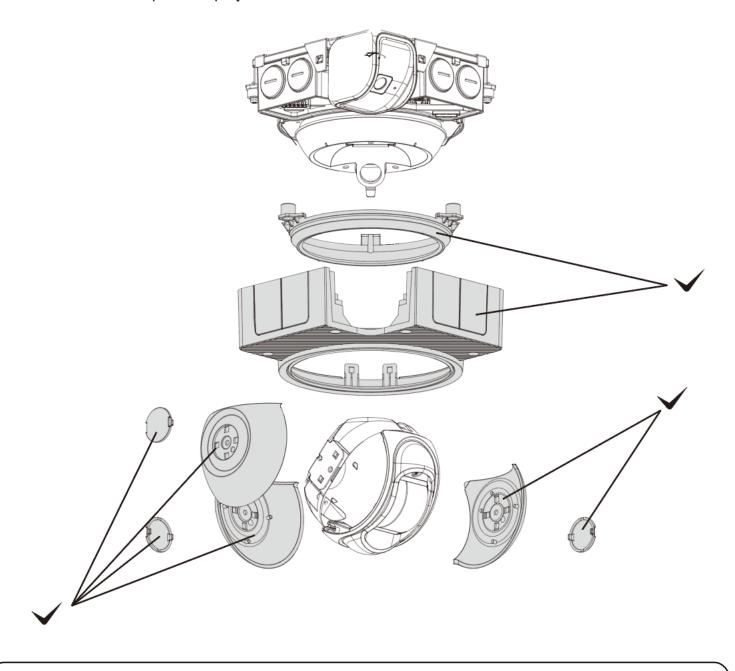
https://sourceforge.net/ptojects/onviffdm/

RTSP

URI of RTSP of REDSCAN mini-Pro is rtsp://(ip address)/stream/0
URI of HTTP tunneling of REDSCAN mini-Pro is http://(ip address)/stream/0

Repainting

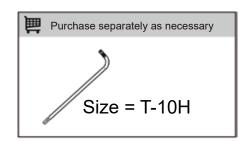
Paint the following parts. (refer to marks as follows) Use the suitable paint for poly-carbonate resin.

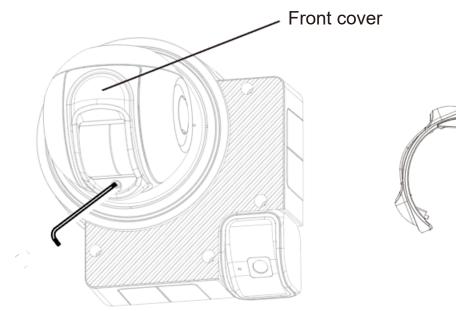


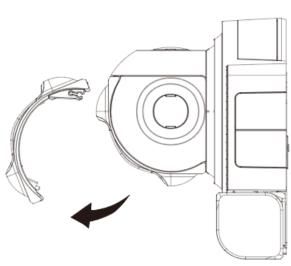
Note >>

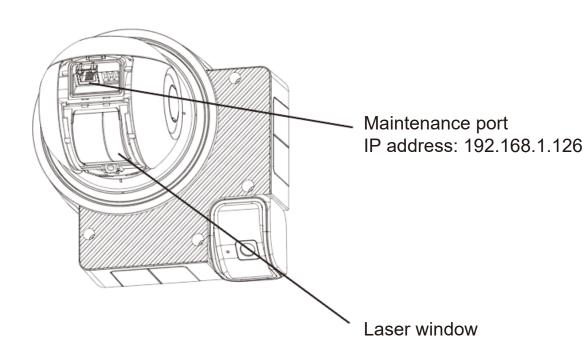
- Do not paint the main unit, or the base unit.
- Painting the RLS-2020V/2020A a dark color could raise the internal temperature and cause a malfunction.
- Painting should be avoided if there is any possibility that the unit would be exposed to direct sunlight.
- Avoid entrapping wires when attaching the fixing ring.

Maintenance









Maintenance

