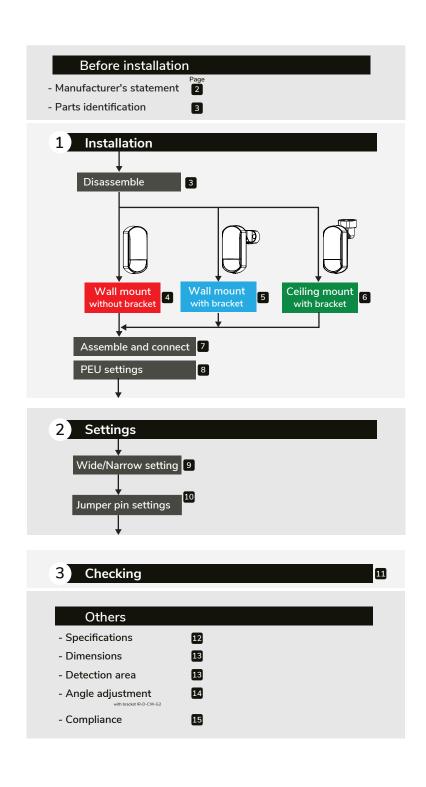




PROFESSIONAL MODELS

	Wide/Narrow area Flip lens	PIR	Microwave
IR-D-P1E	✓	✓	
IR-D-P2E	✓	✓	✓ (10,525 GHz)
IR-D-P2E-UK *1	✓	✓	✓ (10,587 GHz)

^{*1} Not certified to UL



Before installation

- Manufacturer's statement

Symbol Meaning Failure to follow the instructions provided with this indication Warning and improper handling may cause death or serious injury.

Caution Failure to follow the instructions provided with this indication and improper handling may cause injury and/or property damage.

Symbol

Meaning



Check mark indicates recommendation.



Nix sign indicates prohibition.

NOTE

Special attention is required to the section of this symbol.



▲ Warning

⚠ Caution

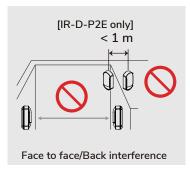






Partial/complete obscuration of the detection area.







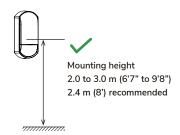
Detection through glass













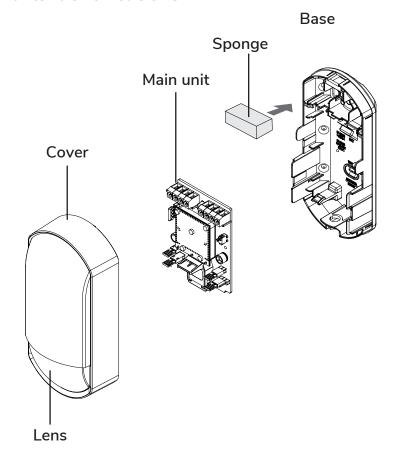




Follow to the Regulations

1

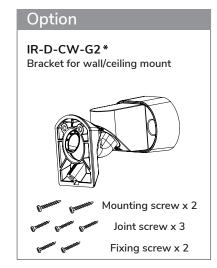
- Parts identifications





PEU ** Plug-in EOL Unit





- * Not certified to EN 50131-2-2/4 ** Not evaluated by UL

Installation



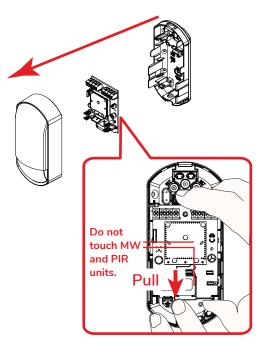
1 Unlock the cover

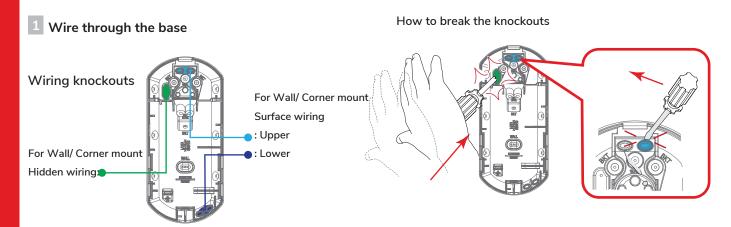


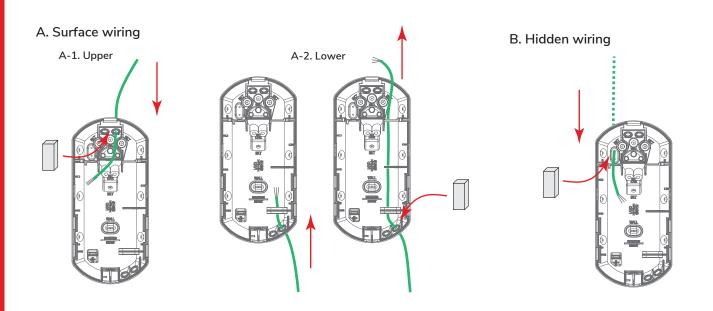
2 Open the cover



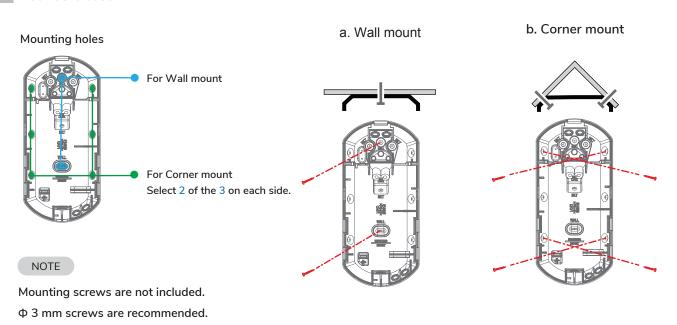
Remove the main unit



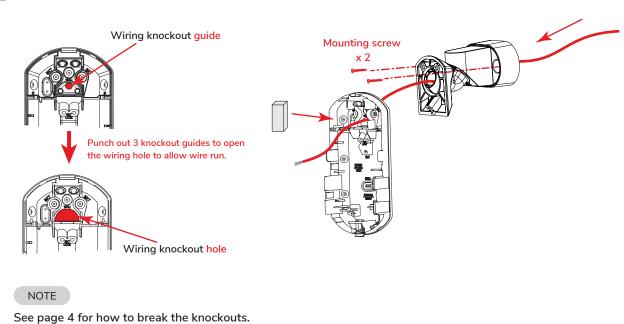




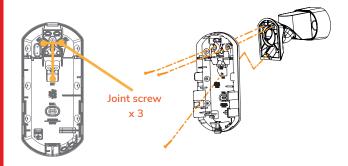
2 Mount the base



1 Wire and mount on the wall



2 Join the base on the bracket

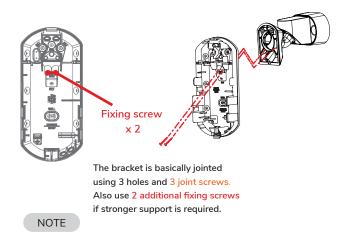


NOTE

Adjust the detection direction while jointing. Confirming with a walk test is required.

--> Refer to "3-1. Walk test"

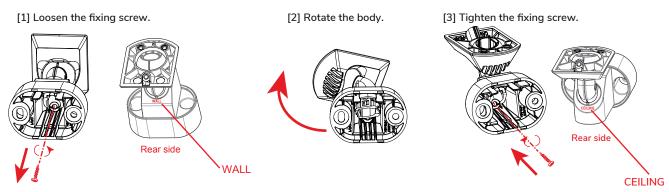
3 Fix the base with the fixing screws (optional)



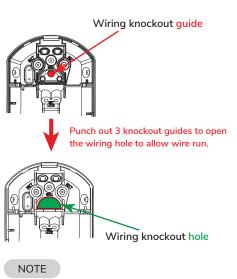
2 fixing screws are required for the Grade 2 and higher grade installation.

1-4. Ceiling mount with bracket

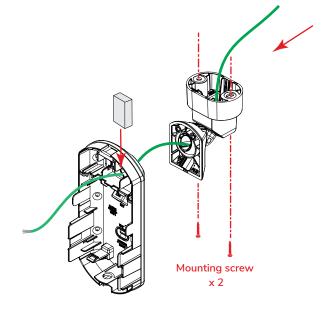
How to change the bracket to the ceiling mounting



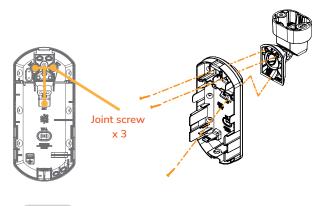
1 Wire and mount on the ceiling



NOTE
See page 4 for how to break the knockouts.



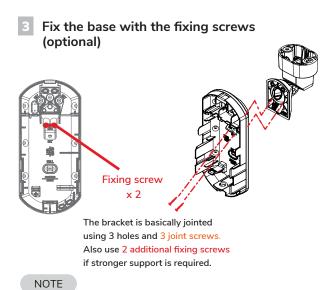
2 Join the base on the bracket



NOTE

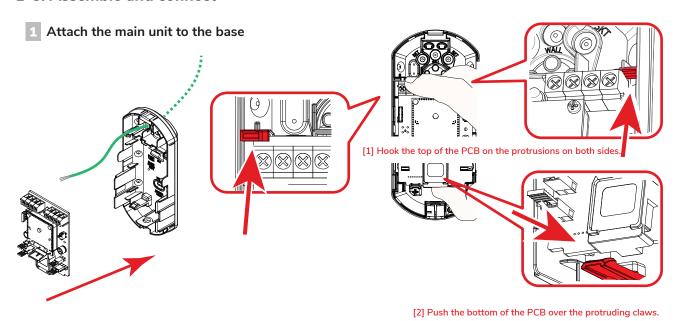
Adjust the detection direction while jointing. Confirming with a walk test is required.

--> Refer to "3-1. Walk test"

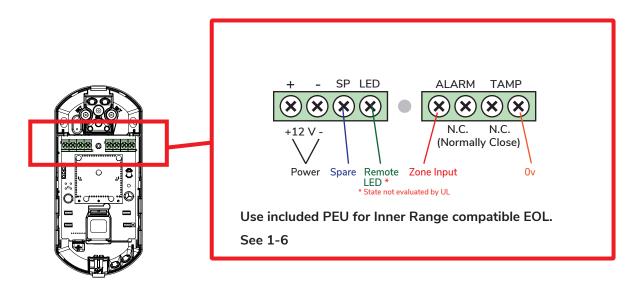


2 fixing screws are required for the Grade 2 and higher grade installation.

1-5. Assemble and connect



2 Connect wires to the terminal



Power cable length

The power cable should be limited to the following length.

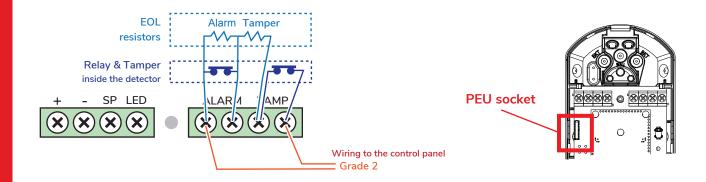
IR-D-P1E

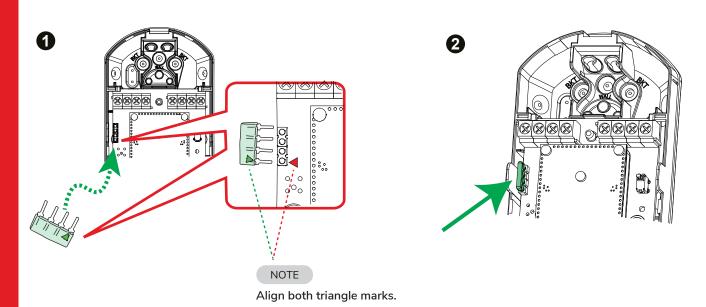
WIRE GAUGE	12 V DC	14 V DC
AWG 22	520 m	1,130 m
(0.33 mm ²)	(1,710 ft.)	(3, 718 ft.)
AWG 20	820 m	1,790 m
(0.52 mm ²)	(2,690 ft.)	(5,870 ft.)
AWG 18	1,320 m	2,850 m
(0.83 mm²)	(4,330 ft.)	(9,350 ft.)

IR-D-P2E				
WIRE GAUGE	12 V DC	14 V DC		
AWG 22	410 m	890 m		
(0.33 mm ²)	(1,350 ft.)	(2,920 ft.)		
AWG 20	650 m	1,400 m		
(0.52 mm ²)	(2,130 ft.)	(4,590 ft.)		
AWG 18	1,030 m	2,240 m		
(0.83 mm ²)	(3,380 ft.)	(7,350 ft.)		

1-6. PEU settings

When using a PEU (Plug-in End of line Unit), no resistors need to be fitted. The PEU packaged with this detector is designed for Inner Range systems.



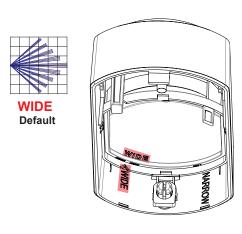


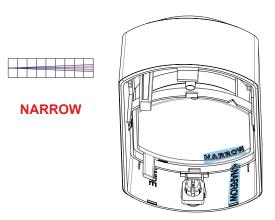
2 Settings

2-1. Wide/Narrow setting

1 Set the Flip lens to "Wide" or "Narrow"

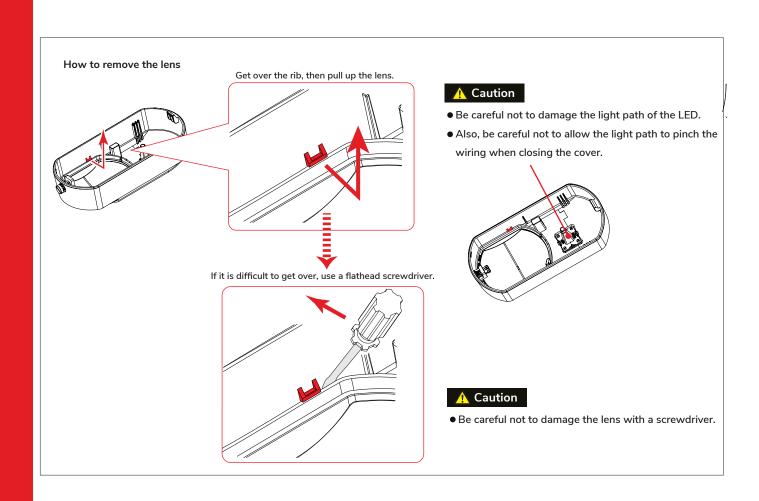
Go to 2-2 on to skip 2-1 when using the default "Wide" setting.

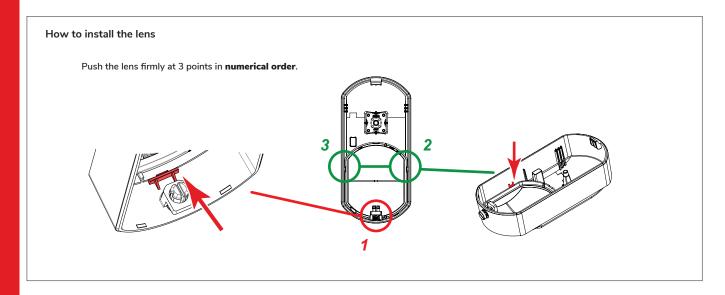




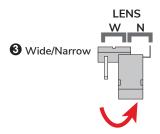
NOTE

Install the lens so that the letters on the cover and on the lens match your intention.





2 Set the jumper pin to "Wide" or "Narrow"



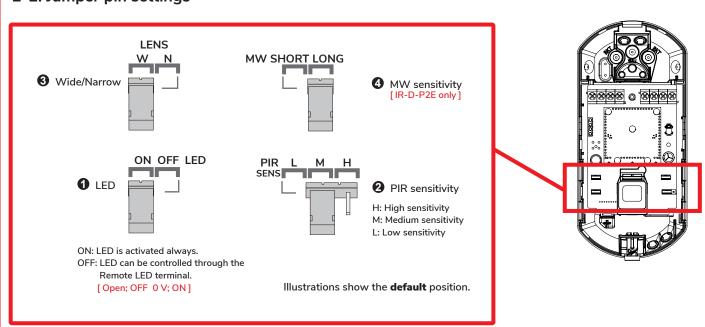
🛕 Caution

• The jumper pin must be "Narrow", when the lens is set to "Narrow".

NOTE

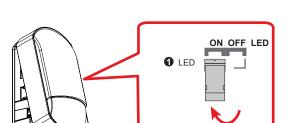
- Default setting is "Wide".
- When "Narrow" is selected, MW detection will be disabled.

2-2. Jumper pin settings

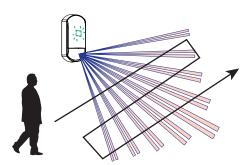


3-1. Walk test

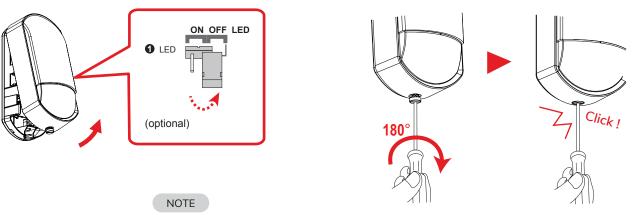
1 Confirm that the LED pin is "ON", then close the cover.



Walk in the detection area to check the detecting performance via LED indication.



3 Return the LED pin to "OFF" after the walk test, if necessary. 4 Lock the cover



Conduct a walk test at least once a year.

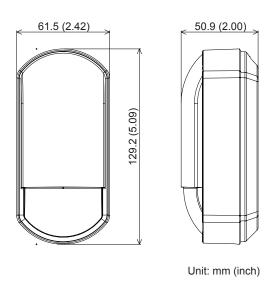
- Specifications

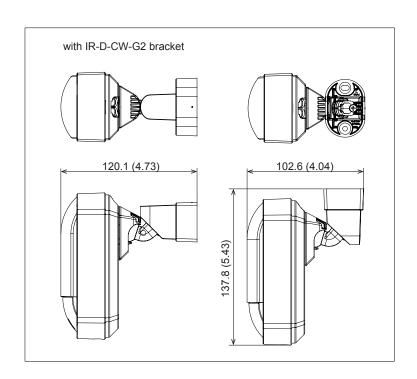
Model		IR-D-P1E	IR-D-P2E / UK				
Installation	Installation						
Detection method		Passive infrared	Passive infrared and Microwave				
Coverage		Wide: 15 m (50 ft.) 85% Narrow: 24 m (80 ft.) 5°					
		(No MW detection at "Narrow" setting)					
Detection zones		Wide: 78 zones/ Narrow: 18 zones					
Mounting height		2.0 to 3.0 m (6'7" to 9'8")					
Alarm period		2.0 ± 0.5 s					
Warm-up period		Approx. 60 s (LED blinks)					
LED indicator		Switchable ON/OFF Green: [1] Warm-up [2] Alarm					
Electrical							
Power input		9.5 to 16 V DC UL*					
Current draw		8 mA (normal) 11 mA (max.) at 12 V DC	11 mA (normal) 14 mA (max.) at 12 V DC				
Dalassastasst	Alarm	N.C. 24 V DC 0.1 A max. (Resistive load)					
Relay output	Tamper	N.C. 24 V DC 0.1 A max. (Resistive load) (Open when the cover is removed.)					
Remote LED		Terminal: open = OFF 0 V = ON					
Environmental							
Operation temperature		-20°C to +50°C(-4°F to +122°F)	-20°C to +45°C(-4°F to +113°F)				
Temperature compensation		Digital (SMDA)					
Environmental humidity		95% max.					
RF interference		No alarm 10 V/m					
Mechanical							
Dimension		H: 129.2 x W: 61.5 x D: 50.9 mm (H: 5.09" x W: 2.42" x D: 2.00")					
Weight		Approx. 95 g (3.35 oz) (with Bracket : Approx. 125 g (4.41 oz))	Approx. 110 g (3.88 oz) (with Bracket : Approx. 140 g (4.94 oz))				
Mounting		Wall, Corner (Indoor) (with Bracket : Wall, Corner, Ceiling)					

- Specifications and designs are subject to change without prior notice.
- These units are designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.

UL* Shall be powered via a UL listed burglar alarm class 2 output power limited power supply that has a min standby power of 4 hrs.

- Dimensions

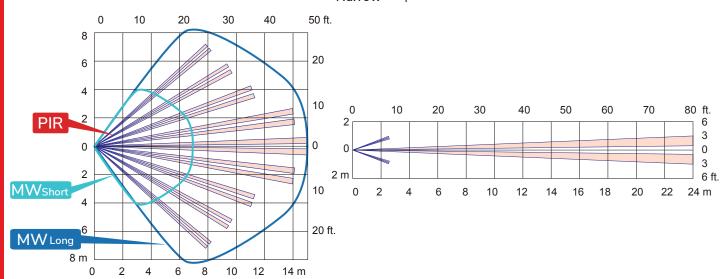


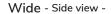


- Detection area

Wide - Top view -

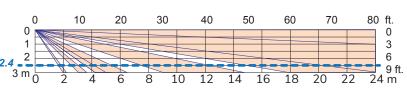
Narrow - Top view -





0 10 20 30 40 50 ft. 0 1 0 0 3 6 6 9 ft.

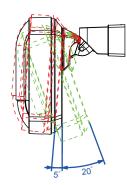
Narrow - Side view -

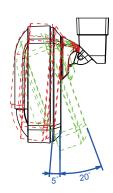


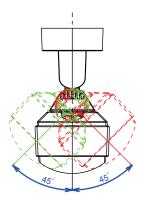
NOTE

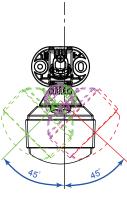
- The * 2.4 m dotted line indicates the recommended mounting height.
- When "Narrow" is selected at the jumper pin, MW detection will be stopped.

- Angle adjustment with bracket IR-D-CW-G2





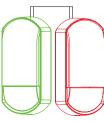






* If the detector cover does not reach the ceiling, it can be swung up to +5°.





- Compliance

RE Directive 2014/53/EU

- IR-D-P2E and IR-D-P2E-UK comply with RE Directive 2014/53/EU.
- Microwave emission Frequency and Power

IR-D-P2E: 10.525 GHz 15.78 mW e.i.r.p IR-D-P2E-UK: 10.587 GHz 8.93 mW e.i.r.p

The following list indicates the areas of intended use of the equipment and any known restrictions.
 For countries not included in this list, please consult the responsible Spectrum Management Agency.

10.525 GHz: Belgium, Denmark, Finland, Germany, Greece, Italy, Luxembourg, The Netherlands, Spain, Sweden, Iceland, Norway, Switzerland 10.587 GHz: Belgium, France, Germany, Ireland, Luxembourg, The Netherlands, United Kingdom

■ IR-D-P2E and IR-D-P2E-UK also comply with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

UK Radio Equipment Regulations 2017

- IR-D-P2E-UK also comply with UK radiation exposure limits set forth for an uncontrolled environment.
 This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.
- The radio equipment type IR-D-P2E-UK is in compliance with Radio Equipment Regulations 2017.

FCC/IC -

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.
- This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
 - (1) This device may not cause interference.
 - (2) This device must accept any interference, including interference that may cause undesired operation of the device
- The end user has to also be informed that any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.
- EN 50131-1 Grades and Environmental Class; Security Grade 2, Environmental Class II
 Applied Standards; EN 50131-2-2 (IR-D-P1E), EN 50131-2-4 (IR-D-P2E and IR-D-P2E-UK)
 Tested and certified by Kiwa
- PD6662:2017



INNERRANGE.COM

Global Headquarters Inner Range Australia 1 Millennium Court, Knoxfield, Victoria, 3180, Australia

Inner Range Middle East Plot No S20141, PO Box 16854 Jebel Ali Free Zone - South, Dubai, UAE Inner Range United States 2301 Patriot Blvd Glenview, IL 60026

Inner Range Canada 200 Foster Crescent Mississauga, Ontario, Canada L5R-3Y5 Inner Range United Kingdom Units 10-11 Theal Lakes Business Park Moulden Way, Reading, Berkshire RG74GB

Inner Range India National Sales Office 95 Brigade Road, Bangalore, 560 025 India

IR INSTALL MANUAL: 63PIR-OP-IM 202310-31