INSTALLATION MANUAL
TIS LUNA 9G PANEL
9-Gang Touch Panel
## MODEL: LUNA-9GANGS

TIS®
CONTROL EVERYTHING
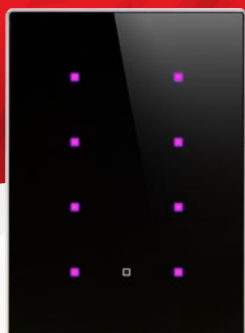
ℹ PRODUCT INFORMATION

This product is a BUS-operated wall panel with touch buttons for smart control over lights, curtains, and preset scenarios. It comes in black and white and customizable RGB lights for maximum aesthetics.

PRODUCT SPECIFICATIONS

Touch	Active area	4.3"
	Touch type	Capacitive
Input	IR receiver	IR receiver
	Using panel addition	Using panel addition
Output	Using panel addition 3R	3 Relay output 3A/5A
	Using panel addition 3DL-12V	12V DC 50mA output
	Using panel addition 2DL-IRE	IR emitter
TIS Bus	Number of devices on 1 line	Max. 64
	Bus voltage	12-32 V DC
	Current consumption	<45 mA / 24 V DC
Operation	touch buttons	9 touch buttons …
	Backlight	8 RGB indicators
	TIS bus	TIS protocol messages and commands
	Upgrading	By Rs485 upgrading kit.
Functions	1 Press	ON/OFF/Scene
	Long press	Dim or ramp the lights
	Double click	Extra scene
	IR receiver	Music, scene, lights control
Dimensions	Width × length × height	94mm × 129mm × 13mm
Housing	Materials	Fireproof PC / Glass in front
	Casing color	Silver plating frame. Glass white / black
	Internal parts color	Black & white
	IP rating	IP 50

CE   RoHS COMPLIANT   PCт   ✔   FC
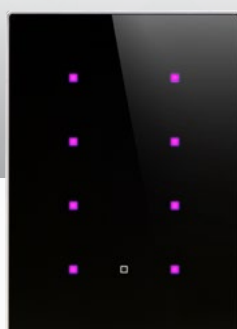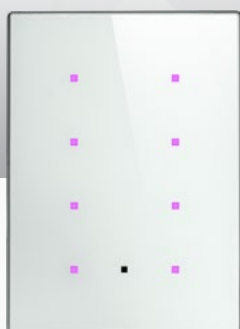
Read Instructions

We recommend that you read this Instruction Manual before installation.

Safety instructions

Electrical equipment should only be installed and fitted by electrically skilled persons.
Failure to follow the instructions may cause damage to the device and other hazards.
These instructions are an integral part of the product and must remain with the end customer.

Programming

This device can be tested and programmed manually. Advanced programming requires knowledge of the TIS Device Search software and instruction in the TIS advanced training courses.
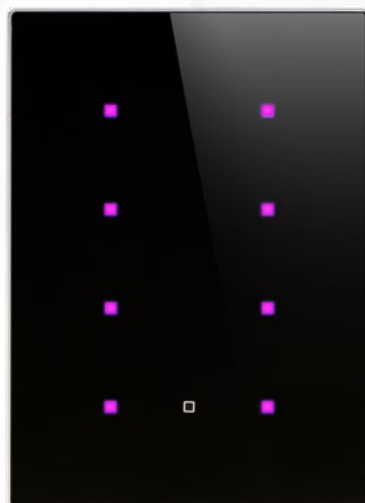
Simple Installation

You can use 2 screws to install this panel on wall; it fits on most junction box sizes.

Mounting Location

Install in a dry, indoor area. with a suitable temperature and humidity range.

Data Cable

Use screened stranded RS485 data cable with four twisted pairs. Configure devices in a "Daisy Chain."
Do not cut or terminate live data cables.

Electrical Wires

The recommended wire size for light channels is 1.5mm - 2.5mm for loads, if you are using the Panel Addition 3R type. The installer should consider the total current consumption when selecting the wires.

Warranty

There is a two-year warranty provided by law. The hologram warranty seal and product serial number are available on each device.

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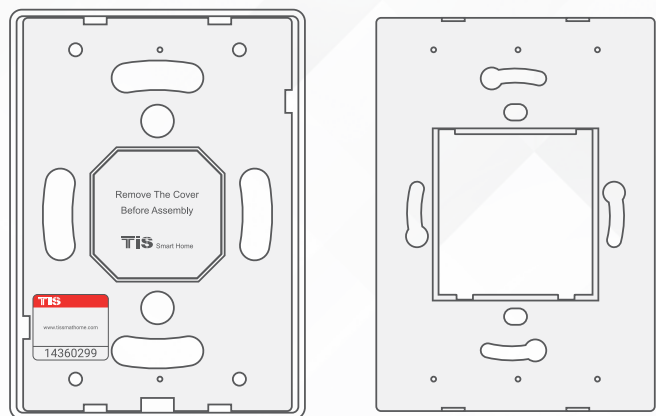
⚙ INSTALLATION STEPS

1 ❯❯ Insert a large flathead screwdriver in the hole of the Panel Cover. Rotate the screwdriver 90 degrees.
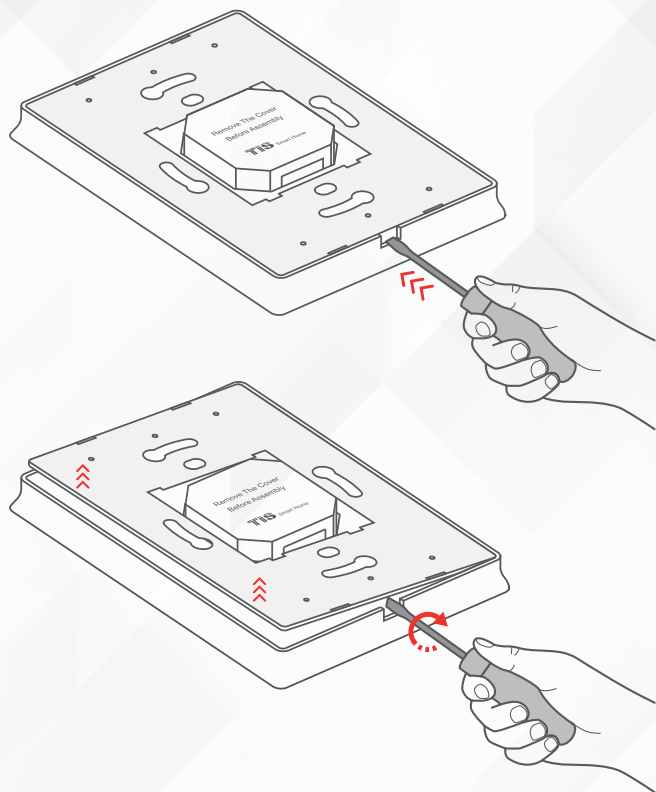
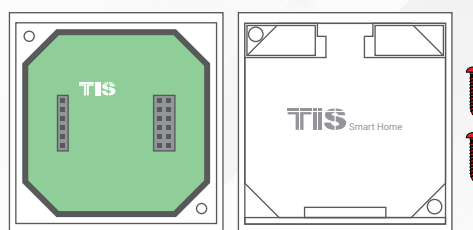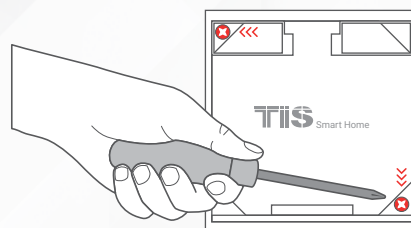**2** ❯❯ Separate the Cover, Main Panel, and Wall Base from each other.

3

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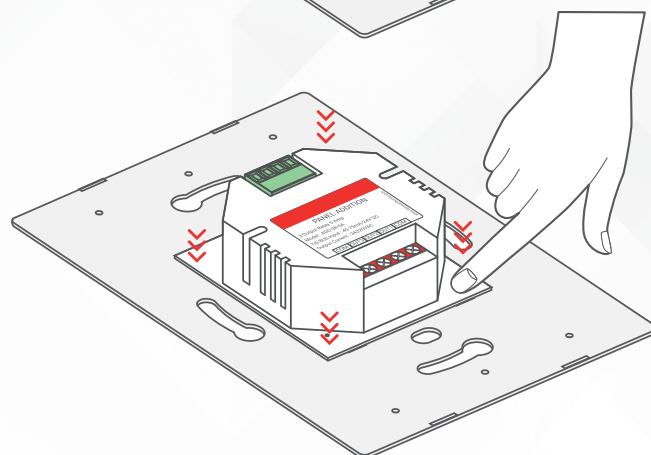
⚙ INSTALLATION STEPS

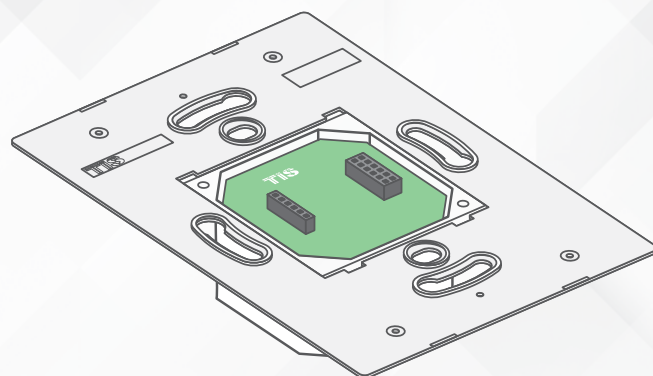**3** ⟫ Remove the 2 screws on the Panel Addition cover.

4 ⟫ Connect the Wall Base and Panel Addition in this position. Place the upper pins as shown, and then push the down pins down with your fingers to assemble.

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⚙ INSTALLATION STEPS

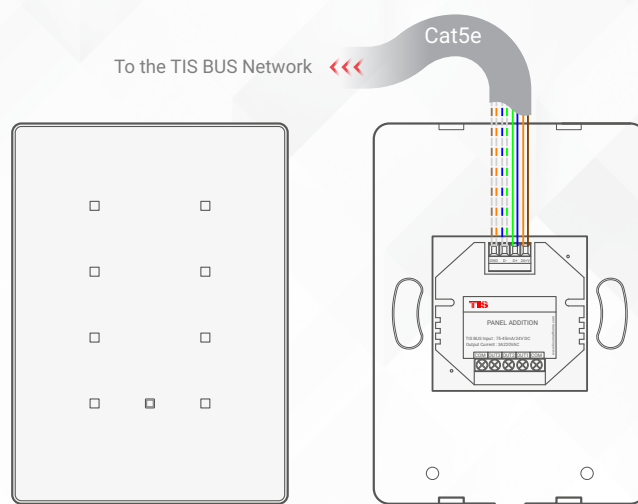It should look like this following the correct assembly.

5 » Turn off the main electrical source before installation.

⚠ **WARNING! HIGH VOLTAGE**

6 » Connect the Cat5e TIS BUS wire to the Panel Addition.

Cat5e

To the TIS BUS Network «««

PANEL ADDITION

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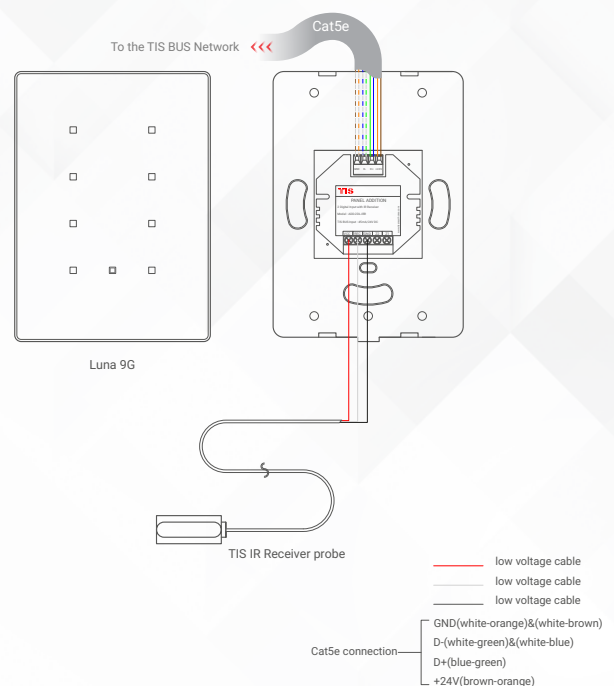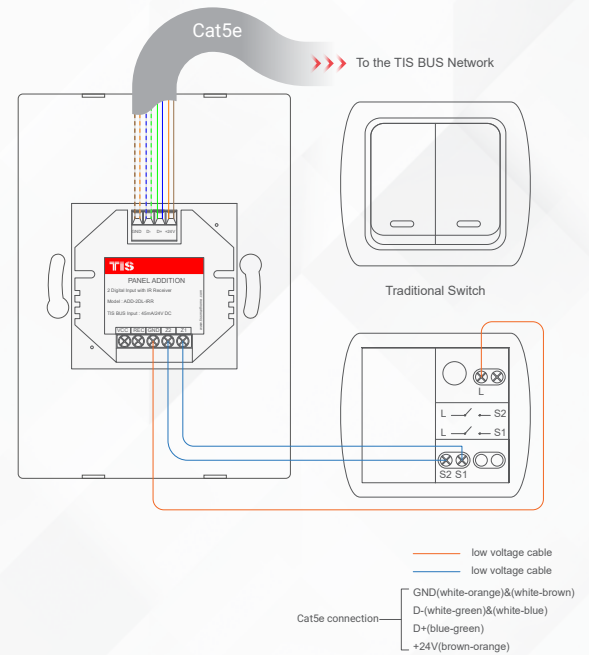
⚙ INSTALLATION STEPS

7 » Connect the other connection if needed as per the panel addition type.

» FOR PANEL ADDITION 2DL-IRR

You can connect 2 digital inputs to any switch or window magnet.

Cat5e

To the TIS BUS Network

PANEL ADDITION
2 Digital Input with IR Receiver
Model : ADD-2DL-IRR
TIS BUS Input : 45mA/24V DC

Traditional Switch

low voltage cable
low voltage cable

Cat5e connection
GND(white-orange)&(white-brown)
D-(white-green)&(white-blue)
D+(blue-green)
+24V(brown-orange)

» You can add an External Infrared Receiver to the IRR Port, connect as follows:

▶ the IR Receiver black wire to GND

▶ Gray wire to REC

▶ Red wire to VCC Terminal.

To the TIS BUS Network   Cat5e

Luna 9G

TIS IR Receiver probe

low voltage cable
low voltage cable
low voltage cable

Cat5e connection
GND(white-orange)&(white-brown)
D-(white-green)&(white-blue)
D+(blue-green)
+24V(brown-orange)

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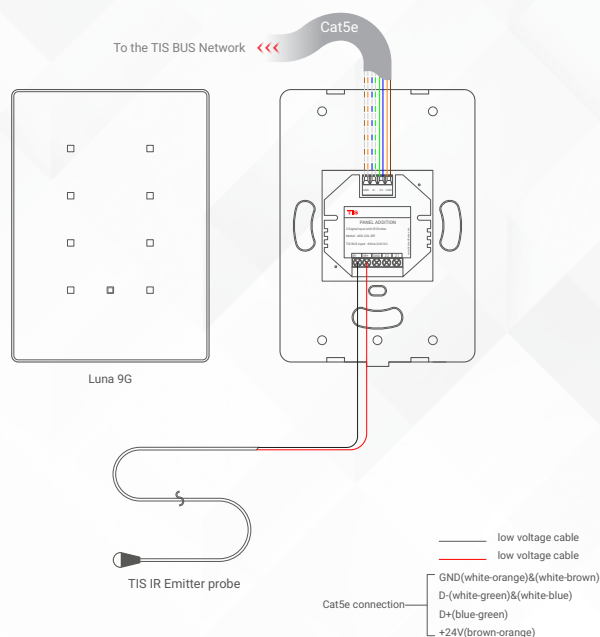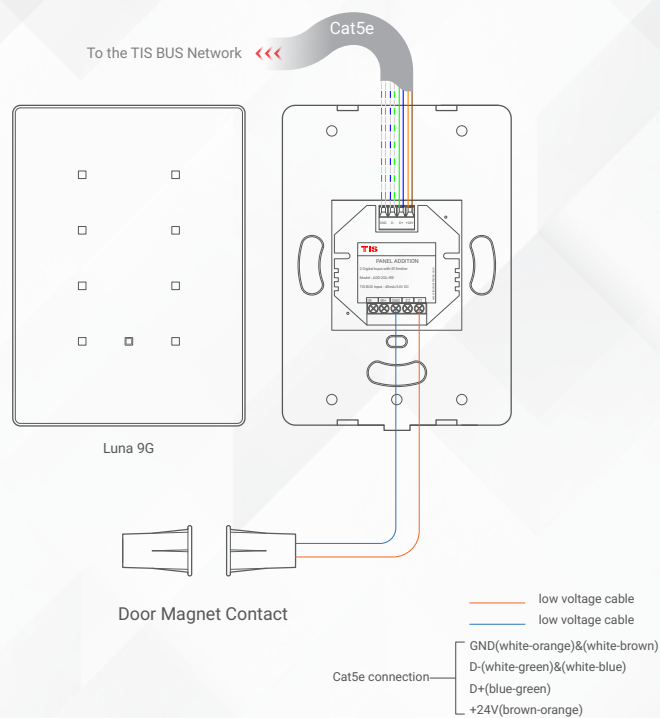SA , AUSTRALIA

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⚙ INSTALLATION STEPS

» FOR PANEL ADDITION 2DL-IRE

You can connect 2 digital inputs to any switch or window magnet.

To the TIS BUS Network ‹‹‹ Cat5e

Luna 9G

Door Magnet Contact

— low voltage cable
— low voltage cable

Cat5e connection —
GND(white-orange)&(white-brown)
D-(white-green)&(white-blue)
D+(blue-green)
+24V(brown-orange)

▶ Connect the IR Emitter Probe's positive wire to IR+ terminal.

▶ Connect the negative wire to IR-terminal.

To the TIS BUS Network ‹‹‹ Cat5e

Luna 9G

TIS IR Emitter probe

— low voltage cable
— low voltage cable

Cat5e connection —
GND(white-orange)&(white-brown)
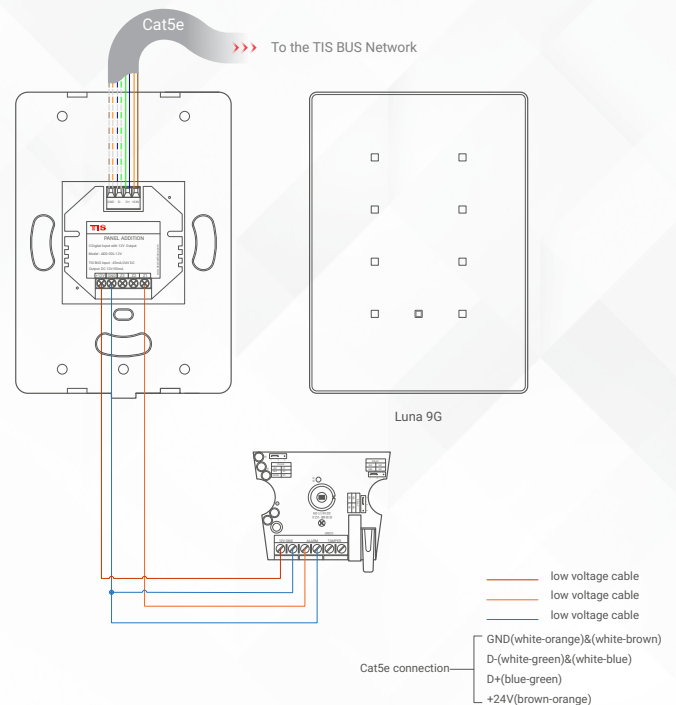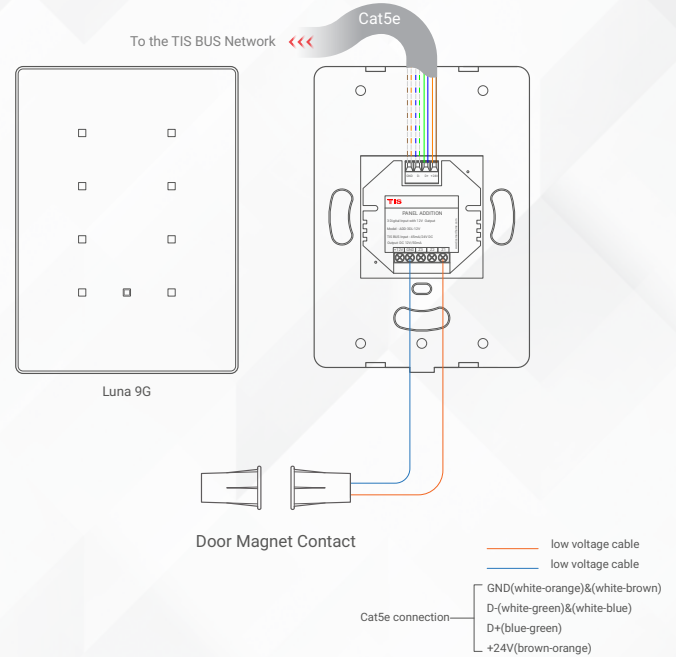D-(white-green)&(white-blue)
D+(blue-green)
+24V(brown-orange)

7

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⚙️ INSTALLATION STEPS

≫ FOR PANEL ADDITION 3DL-12V
You can connect 3 digital inputs to any switch or window magnet.

To the TIS BUS Network <<< Cat5e

Luna 9G

Door Magnet Contact

low voltage cable
low voltage cable

Cat5e connection
GND(white-orange)&(white-brown)
D-(white-green)&(white-blue)
D+(blue-green)
+24V(brown-orange)

≫ Also, you can connect any 12V operated smoke detector or any 3rd party sensor with NC/NO connection to the 12V GND and Z1-Z3 terminals as per the diagram.
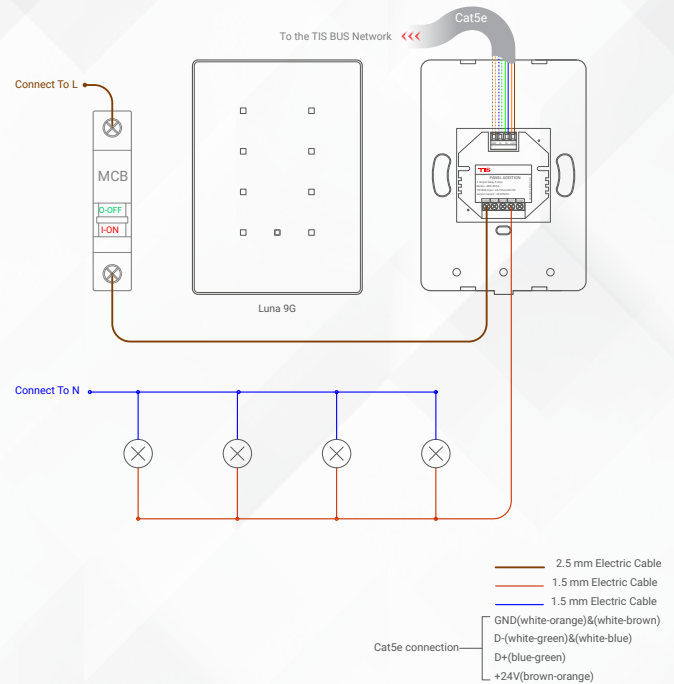
Cat5e >>> To the TIS BUS Network

Luna 9G

low voltage cable
low voltage cable
low voltage cable

Cat5e connection
GND(white-orange)&(white-brown)
D-(white-green)&(white-blue)
D+(blue-green)
+24V(brown-orange)

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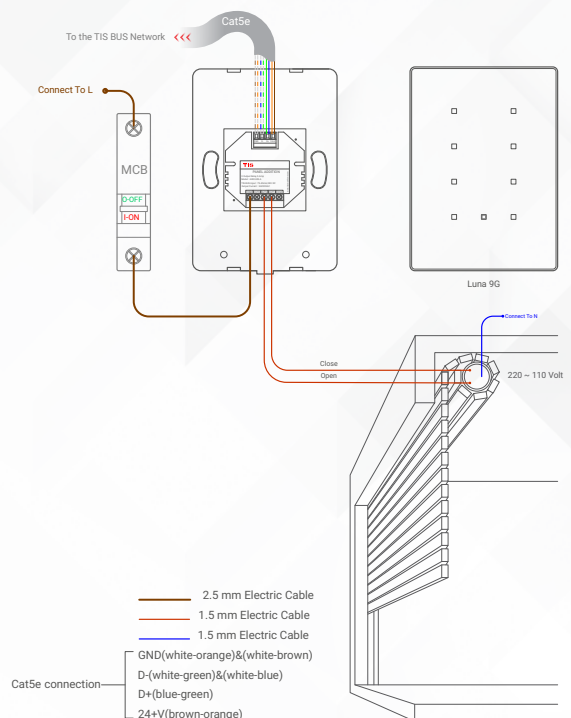
⚙ INSTALLATION STEPS

⚑ FOR PANEL ADDITION 3R-5A

💡 LIGHTING CONNECTION

▶ Connect the live wire to COM

▶ Connect the loads wire to Out1-Out3 to terminals

▶ Connect load neutral wire to main neutral in the distributor box.

Connect To L

MCB
0-OFF
I-ON

Luna 9G

To the TIS BUS Network ◀◀◀   Cat5e

Connect To N

2.5 mm Electric Cable
1.5 mm Electric Cable
1.5 mm Electric Cable

Cat5e connection
- GND(white-orange)&(white-brown)
- D-(white-green)&(white-blue)
- D+(blue-green)
- +24V(brown-orange)

SHUTTER / CURTAIN CONNECTION

▶ Connect the Supply wire to COM

▶ Connect the Open wire to OUT1

▶ Connect the Close wire to OUT2

▶ Shutter neutral connection, if it exists, can be looped to main neutral in the distributor box.

WARNING: Set the curtain function in the software before connecting the wires.

To the TIS BUS Network ◀◀◀   Cat5e

Connect To L

MCB
0-OFF
I-ON

Luna 9G

Connect To N

Close
Open

220 ~ 110 Volt

2.5 mm Electric Cable
1.5 mm Electric Cable
1.5 mm Electric Cable

Cat5e connection
- GND(white-orange)&(white-brown)
- D-(white-green)&(white-blue)
- D+(blue-green)
- 24+V(brown-orange)

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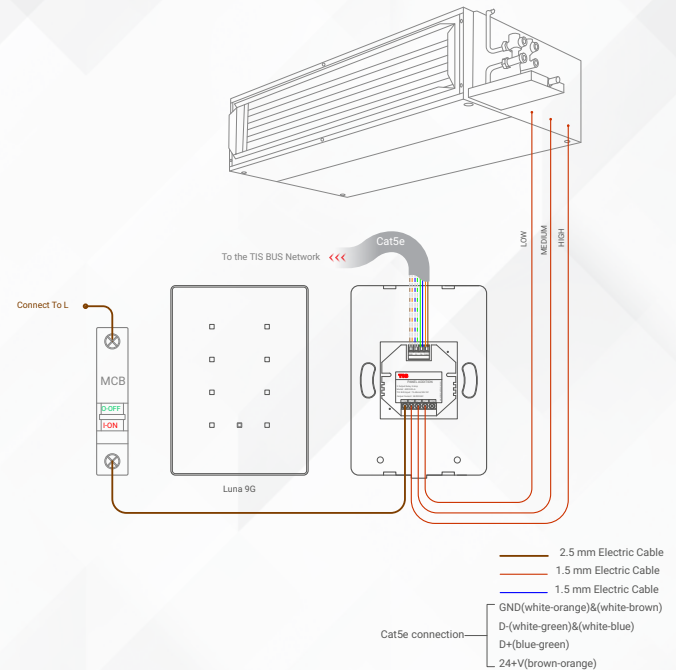## ⚙ INSTALLATION STEPS

» FOR PANEL ADDITION 3R-5A

✹ FCU CONNECTION
- ▶ Connect the supply wire to com
- ▶ Connect the FAN Low, Medium, and High wires to Out1, Out2, and Out3 in the same order.

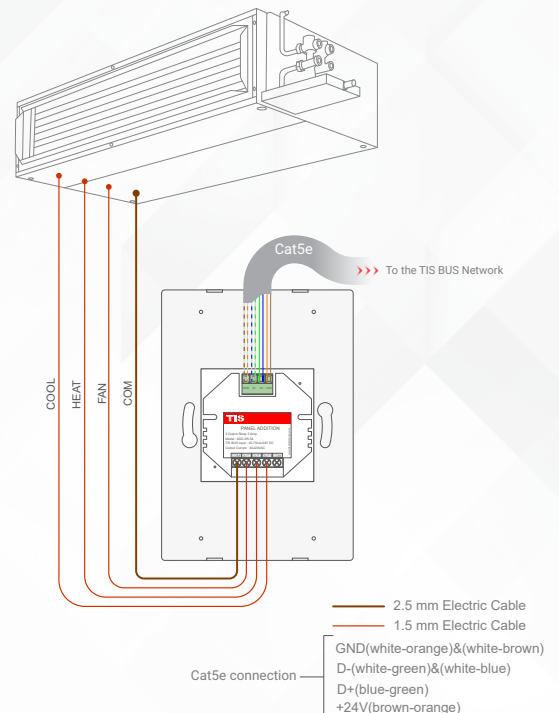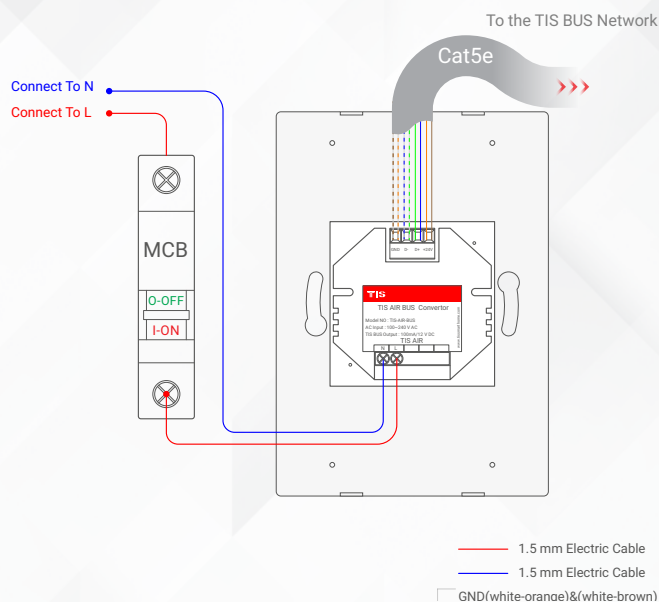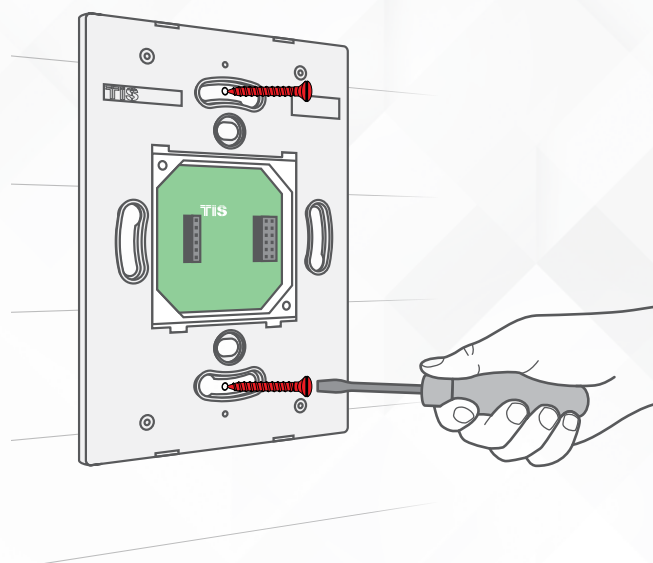**⚠ WARNING:** Set the FCU function in the software before connecting the wires.

To the TIS BUS Network
Cat5e
LOW MEDIUM HIGH
Connect To L
MCB
O-OFF
I-ON
Luna 9G

—— 2.5 mm Electric Cable
—— 1.5 mm Electric Cable
—— 1.5 mm Electric Cable
Cat5e connection
GND(white-orange)&(white-brown)
D-(white-green)&(white-blue)
D+(blue-green)
24+V(brown-orange)

✳ HVAC CONNECTION
- ▶ Connect the HVAC COM (supply) wire to COM
- ▶ Connect the Cool, Heat, and FAN wires to Out1, Out2, and Out3 in the same order.

⚠ WARNING: Set the HVAC function in the software before connecting the wires.

Cat5e
To the TIS BUS Network
COOL HEAT FAN COM
PANEL ADDITION

—— 2.5 mm Electric Cable
—— 1.5 mm Electric Cable
Cat5e connection
GND(white-orange)&(white-brown)
D-(white-green)&(white-blue)
D+(blue-green)
+24V(brown-orange)

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⚙️ INSTALLATION STEPS

➤ FOR PANEL ADDITION AIR-BUS-3W

- ▶ Connect the live wire to the L terminal,
- ▶ Connect the neutral wire to N terminal.

To the TIS BUS Network

Cat5e

Connect To N
Connect To L

MCB

0-OFF
I-ON

TIS AIR

TIS AIR BUS Convertor
Model NO: TIS-AIR-BUS
AC Input: 100~240 V AC
TIS BUS Output: 100mA/12 V DC

—— 1.5 mm Electric Cable
—— 1.5 mm Electric Cable
☐ GND(white-orange)&(white-brown)

8 ➤ Mount the device on the wall using 2 screws on the junction box.

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⚙ INSTALLATION STEPS

9 ›› Using your fingers, pull the protective plastic cover vertically, remove it, and throw it away.
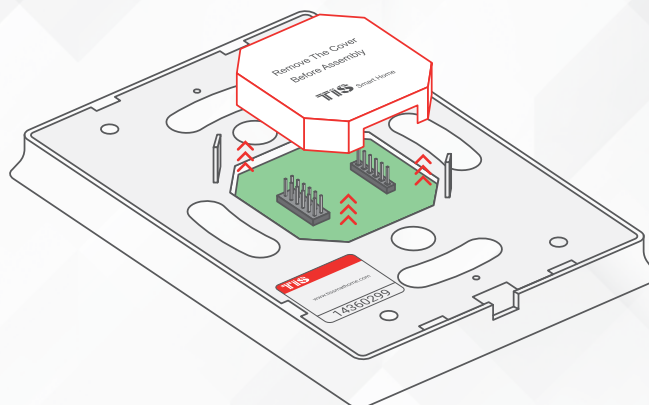
10 ›› Connect the main Luna panel vertically to the part installed on the wall; install the upper part by making sure the buckles are completely inside.

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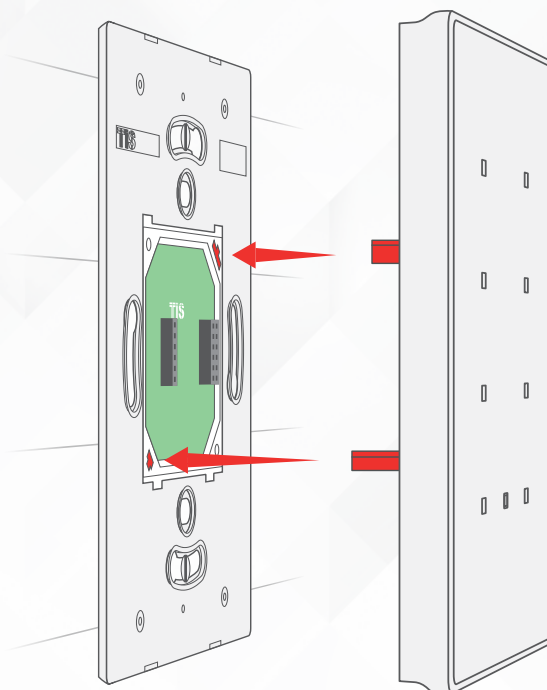
⚙ INSTALLATION STEPS

11 ≫ Push on the bottom part of the main panel to fix it to the wall and complete the assembly.
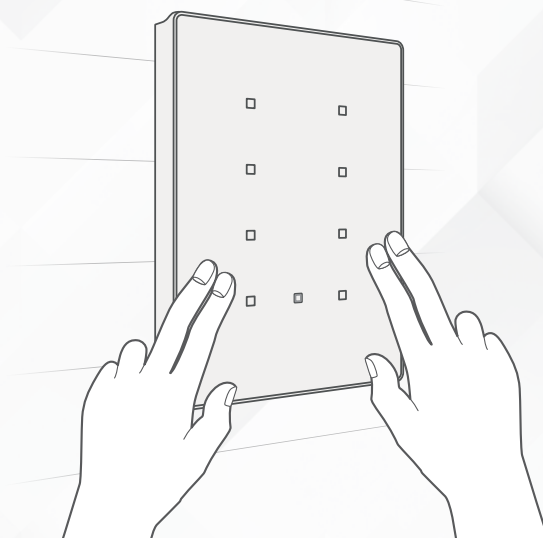
12 ≫ Turn on the power source. The panel should turn ON.

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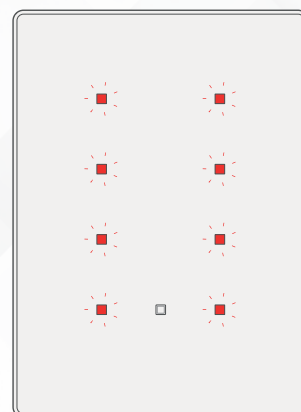
🔗 PAIRING (MANUAL PROGRAMMING)

💡 LIGHTS / SHUTTERS PROGRAMMING

You can pair the light channels with any wall panel. To do so, follow these steps:

1 » Press any button on any channel of a relay or dimmer module for 6 seconds so that the LED indicator light of that button starts blinking.

6"
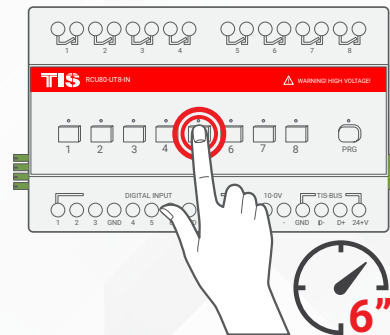
2 » Shortly press on any button on wall panel or press the wall switch that connected to dry inputs of the panel addition zones.
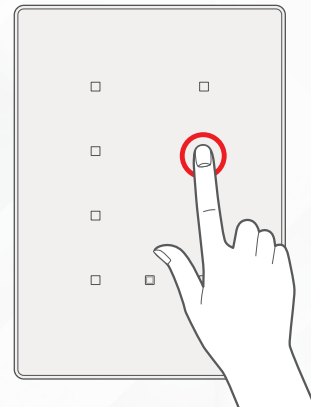
3 » Test the button on the panel by short pressing it for ON/OFF and long pressing it to dim (if channel is dimmable).


14
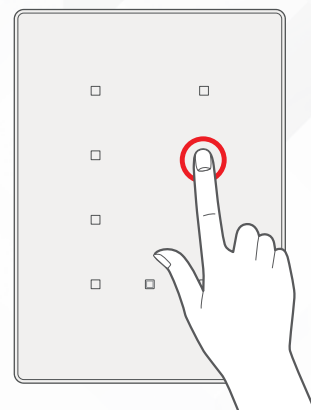
🔗 PAIRING (MANUAL PROGRAMMING)

⚙ SCENARIO PROGRAMMING

The last row of the panel buttons (buttons 7, 8, and 9) can be programmed as a mood (scene) that can save the other 6 buttons' statuses.
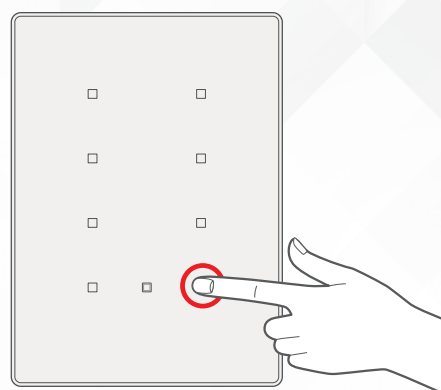
1 ⟫ Set the first 6 buttons for lights ON/OFF, dim brightness level, shutter status, etc., as per your preferred mode (scene).

2 ⟫ Long press buttons 7, 8, or 9 for 12 seconds until all buttons' white LED lights blinks.

12"
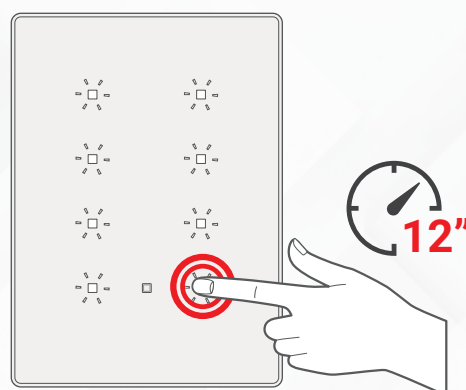
3 ⟫ The scene is programmed on the pressed button; you can test it with a single press.

15

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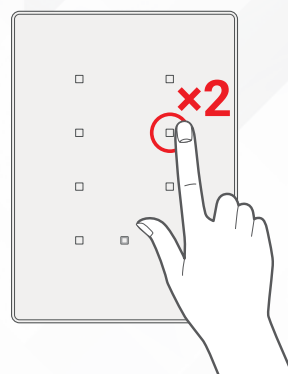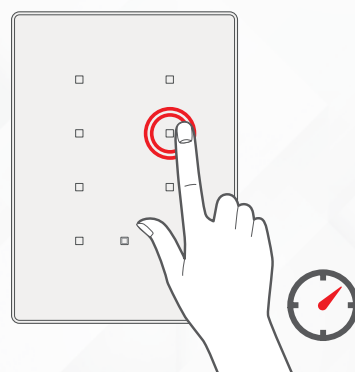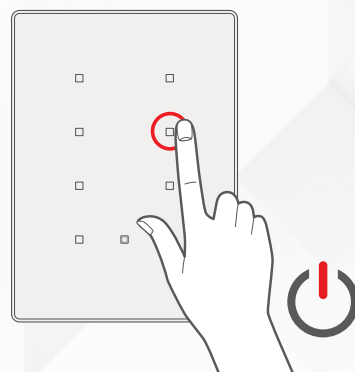
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USER MANUAL

USING THE PANEL

You can use the panel buttons 1-9; press on any button to get the settings that you programmed:

▶ Short press for ON/OFF or to run a scene.
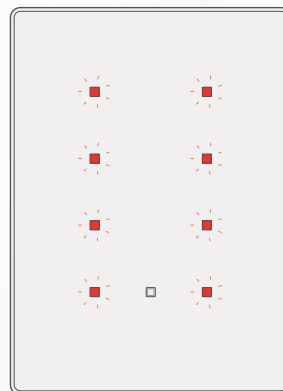
▶ Long press to dim or ramp up the lights.

▶ Double click to trigger a special programmed scene.

×2

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❓ USER MANUAL

❯❯ All panel LEDs' RGB can be programmed to different colors in ON/OFF status.

📶 TIS-MRC REMOTE CONTROL

You can use TIS's IR Remote Control to run programmed buttons 1-9. You can also set the music audio player address on the Mars and play music using the Remote Control.
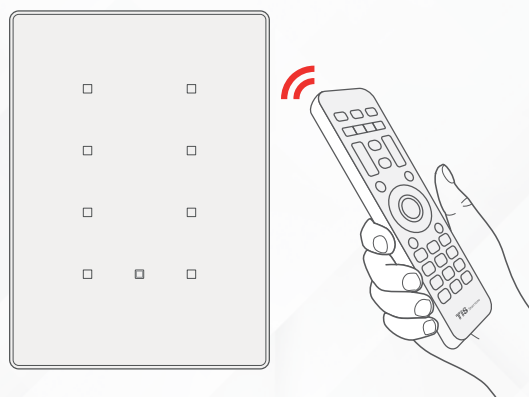
🔒 LOCKING / UNLOCKING THE PANEL

If this function is enabled in the software, you can lock the panel by swiping the middle part of the panel up to down. Two buttons will flash to show that the button has been successfully locked.

You can do the same to unlock the panel if it was locked.

17
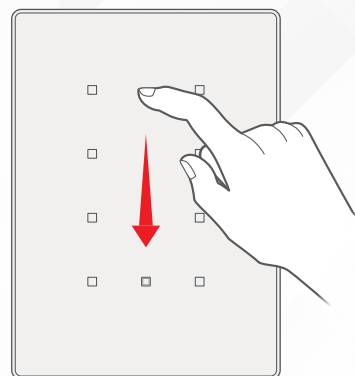
🧰 TROUBLESHOOTING

❓	**The panel's white LED blinks rapidly**	**Reason:** The panel address conflicts with another device in the TIS network. You need to press and hold the 9th button (IR middle button) for 6 seconds so that the panel can get a new address.
❓	**The panel buttons' LEDs do not turn ON, and the device is not powered**	**Reason 1:** There is no TIS-BUS power or no connection to the L/N input (if used AIR bus-3W converter). **Reason 2:** The TIS 24V power supply is not connected to the TIS-BUS.
❓	**The wall panels fail to pair with other devices**	**Reason 1:** The TIS-BUS connection has a problem, or the wire has a short. **Reason 2:** The manual programming function is disabled on the device (it is enabled by default).
❓	**The wall panels fail to control the device channels.**	**Reason 1:** The TIS-BUS connection has a problem, or the wire has a short. **Reason 2:** The programming address is faulty. **Reason 3:** The panel is locked. You need to unlock it by swiping from up to down in the middle of the panel.

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