

I. Product Description



PX292-02 / PX293-02 EU Matter Pergola Control Box RGB + White LED

This control box input voltage uses AC230V, with one RGB or WW LED strip output, motor control output, and one AC output which can connect to a MAX. 2000w heater. The PERGOLUX Control Box can be operated using the RF remote control, Bluetooth APP or Smart Home + Matter integration

II. Application

This product is used to control the PERGOLUX pergola motor, LED and heater

III. Technical Data

PX292-02 / PX293-02 EU Matter Pergola Control Box White LED / RGB	
Input voltage	230V 50Hz
Color	Black
Control method	RF transmitter / APP
RF receiving frequency	433.92MHz
RF receiving sensitivity	≥-110dBm
RF receiving distance	Open distance ≥60M
AC load power	Max. 2000W (Heater), unlimited time
Linear motor output	24VDC / Max. 60W – Max 5min
LED strip output	24VDC / Max. 150W, unlimited time
Working temperature	-20°C ~ +60°C
Protection level	IP65

IV. Product Connector Port Description & Product Dimension

1. Product connector port description

- AC output: heater
- AC input: 230V AC power input
- DC24V LED: led strip
- DC24V MOTOR: linear motor

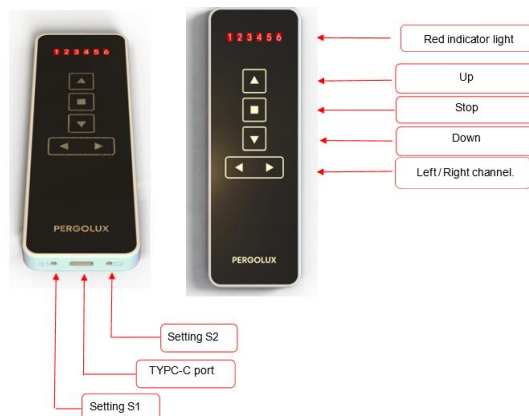


2. Programming buttons & led indicators

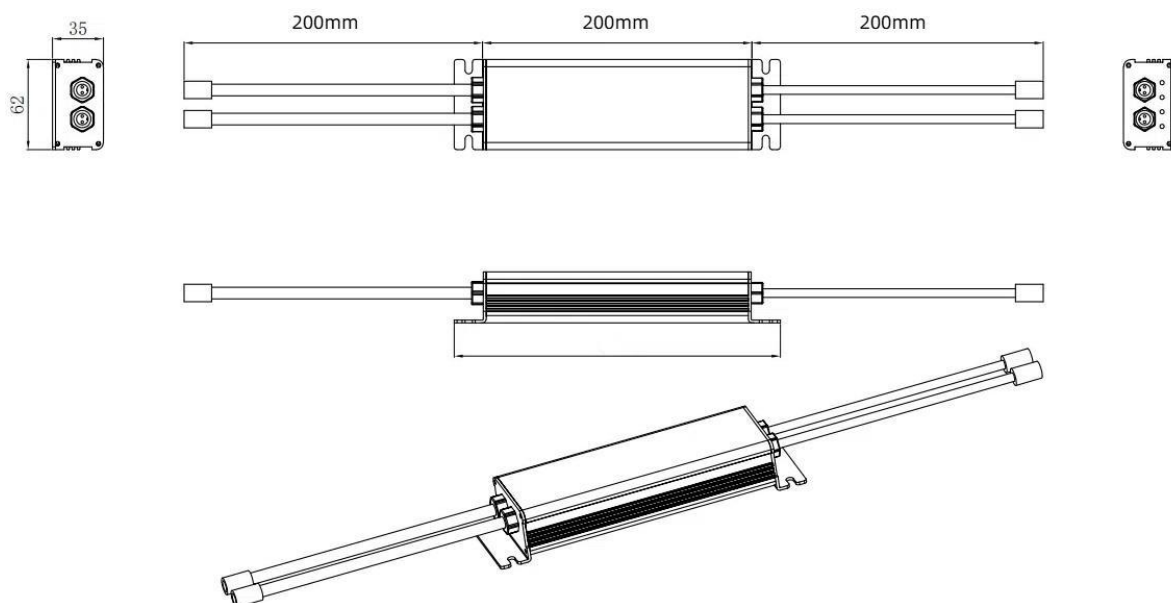


Control All LED strip Linear motor Heater

Note: The upper row is the **programming buttons**



3. Product dimensions



V. Installation Precautions

1. Power to the Control Box must be cut off before connecting accessories.
2. Accessories should be firmly tightened by hand to the Control Box to avoid a loose connection
3. After Installation , ensure that the cables are not under pressure, bent or pinched.

VI. Programming Method

All LEDs on the Control Box should be lit up when connected to power (as seen in section IV part 2)

1) Remote Control Pairing - RF (Radio Frequency)

Control box to Remote Channel Pairing (Group Control or Single Channel)

Group Control Pairing (Blue light) – All devices to one channel

Single Channel (Green light) – One accessory paired to one channel

Example: LED, Motor and Heater can be paired to channels 1, 2 and 3 on the remote using Single Channel pairing. All accessories can be paired to channel 4 with Group Control Pairing

Step 1: Press and hold the corresponding "programming button" on the control box (about 7 seconds) until the control box led indicator flashes continuously, the control box is now in programming mode. (all led indicators will flash for group control)

Note: ① If nothing is programmed within 15 seconds, control box will exit the programming state.

② Each channel of the control box can be programmed with up to 6 RF remote controls.

Programming with Remote Control (RF transmitter)

While the control box is in the programming state (control box blinking), select the remote control channel that should be paired with the control box (LED to channel 1, Motor to channel 2 etc.) and press the "UP" arrow, the led indicator on the control box will flash quickly 3 times, the remote control channel is now paired to the control box and the control box will exit the programming mode.

Delete control box single channel's programming

Press and hold the led on the control box single channel's programming button that you would like to delete (about 15 seconds), until the control box corresponding led indicator flashes quickly 3 times, then the control box single channel's programming is deleted successfully and control box exits the programming state.

Factory reset

Motor programming button: Press and hold the control box motor programming button (about 15 seconds) until the motor channel led indicator flashes quickly 3 times to restore the factory setting of the motor, including deleting the motor's RF transmitter, stroke, direction (default stretch out to open the roof louver), jog/continuous running status (default continuous running), then motor will automatically retract and stretch to set the stroke..

LED strip programming button: Press and hold the control box led strip programming button (about 15 seconds) until the control box led strip channel led indicator flashes quickly 3 times to restore the factory setting of the led strip, including deleting the led strip's RF transmitter, restore to the default led strip brightness level of 10 (total 21 levels of brightness), and restore to the default led strip color of white.

Group control programming button: Press and hold the control box group control programming button (about 15 seconds) to restore all factory settings of the motor and led strip, and motor automatically runs to set the stroke.

Motor direction running change

To change the direction of the motor ('UP' to close slats and 'DOWN' to open slats) press and hold the 'STOP' button on the remote control for 7 seconds while on the channel that controls the motor. The led on the Control Box will enter programming mode and blink slowly, press the 'STOP' button on the remote control while the Control Box is in programming mode and the direction of the motor will change ('UP' to open and 'DOWN' to close).

Controlling the Heater with Remote Control

- (1) Press the "UP" arrow, control box led indicator flashes once, heater will turn on.
- (2) Press the "Down" arrow or "Stop" button, control box led indicator flashes once, heater will turn off.

Controlling the White LED strip with Remote Control

- (1) When the led strip is off, press the "UP" arrow or "Down" arrow to turn on the led strip; when the led strip is on, press the "Stop" button to turn off the led strip.
- (2) When the led strip is on, press the "UP" arrow once, the brightness of the led strip will increase by one level; Press the "Down" arrow once, the brightness of the led strip will decrease by one level.
- (3) When the led strip is on, press and hold (about 1.5 seconds) the "UP" arrow on the Remote Control, the led strip will continue to increase the brightness at a constant speed until it is the brightest. During the increase, press any one of the "Up/Down/Stop Button" to stop increasing and save the brightness at the time of stopping.
- (4) When the led strip is on, press and hold (about 1.5 seconds) the "Down" arrow on the Remote Control, the led strip will continue to decrease the brightness at a constant speed until it is the darkest. During the decrease, press any one of the "Up/Down/Stop Button" to stop decreasing and save the brightness at the time of stopping.

Controlling the RGB LED strip with Remote Control

- (1) Press the "UP" arrow on the remote, led strip will turn on.
- (2) Press the "Down" arrow on the remote, led strip will turn off.
- (3) With the LEDs on, press the "Stop Button" to switch to the next color (Please refer to the led strip color table).
- (4) When the led strip is on, press and hold (about 1.5 seconds) the "UP Button" of remote control, the led strip will continue to increase the brightness at a constant speed until it is the brightest. During the increase, press any one of the "Up/Down/Stop Button" to stop increasing and save the brightness at the time of stopping.
- (5) When the led strip is on, press and hold (about 1.5 seconds) the "Down Button" of the remote, the led strip will continue to decrease the brightness at a constant speed until it is at the darkest setting. During the decrease, press any one of the "Up/Down/Stop Button" to stop decreasing and save the brightness at the time of stopping.
- (6) Short press the "Up + Stop Button" to increase the brightness by one level, and press the "Down + Stop button" to decrease the brightness by one level.

Note: The factory set default color is white. Total 21 brightness levels (0~20), the default brightness level of led strip is level 10. The PERGOLUX APP can set the brightness to very low (less than the brightness level 0 of the RF transmitter control), and it will automatically return to the default level of 10 if the control box is turned off and turned on again.

Mode	1	2	3	4	5	6	7	8
Color	White	Red	Green	Blue	Cyan-blue	Purple	Yellow	Seven colors light up in turn, with an interval of 1s

VII. Remote Control



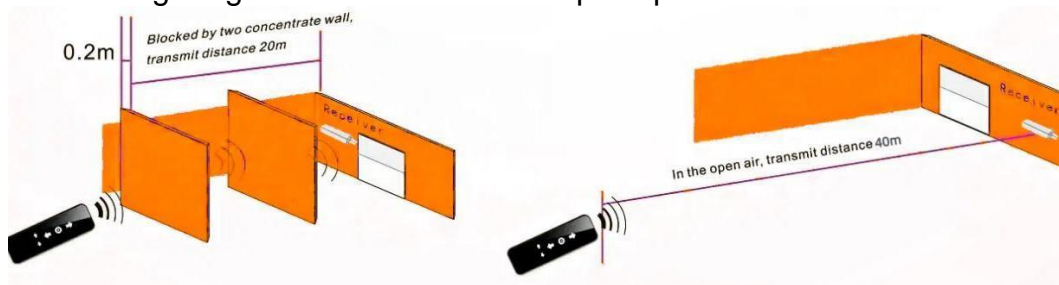
PX150-06 Rechargeable Water-resistant Remote Control

III. Technical Parameters

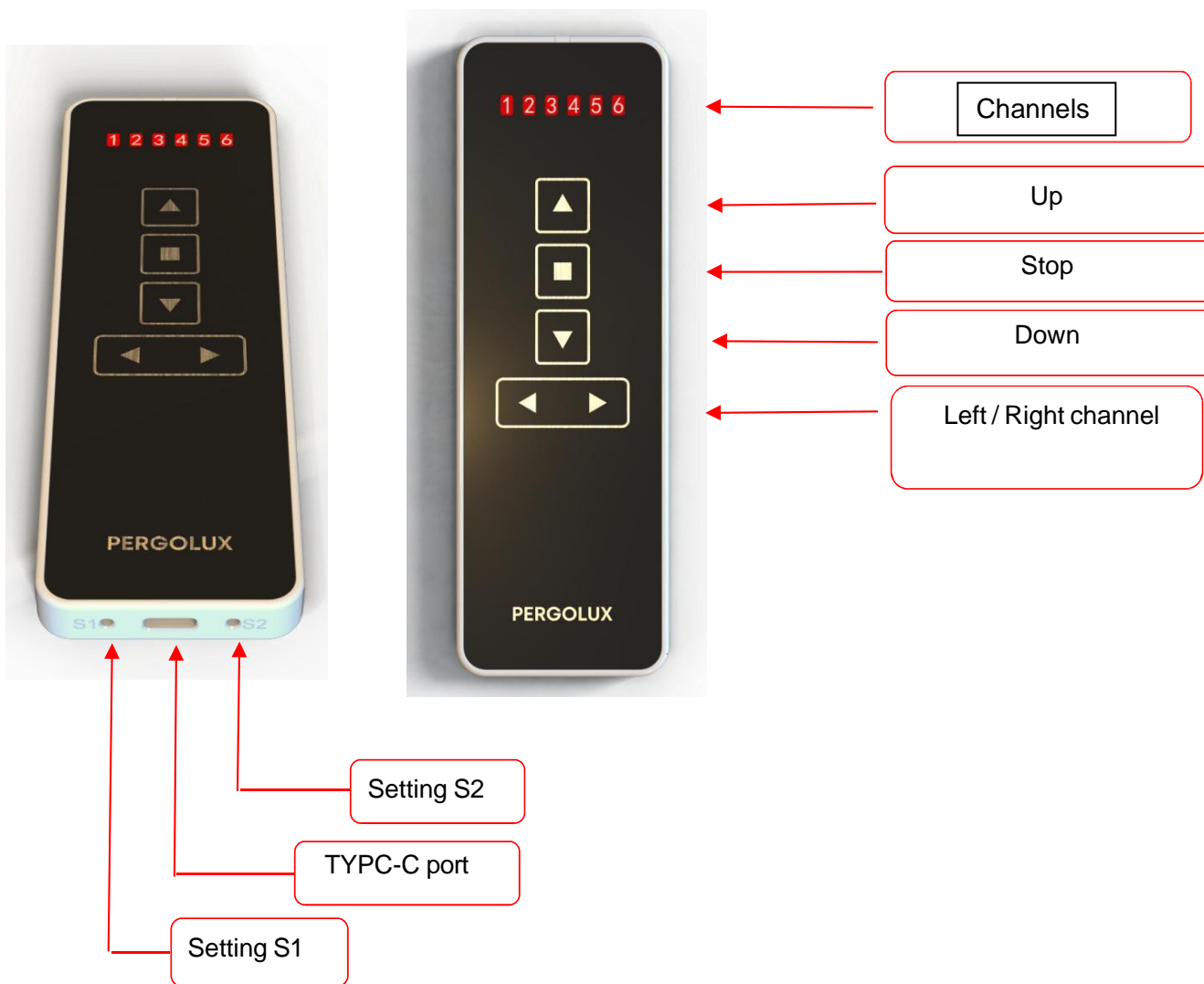
PX150-06 rechargeable water-resistant transmitter	
Product model	PX150-06
Channel quantity	6 channels
RF transmitting frequency	433.92MHz
RF straight-line transmitting distance	Around 40m
Transmitting current	≤30mA
Standby current	≤10uA
Theoretical standby time	1 year (recommended to charge every 3 months)
Battery	3.7V Li-ion (150mAh)
Charging voltage	5V (TYPE-C)
Work temperature	-20℃ ~ +55℃
Protection level	IP65

! Notice

- Transmitting range: Within 40 meters in open space.



VII. Remote Control Layout



1. Control

Up button: up control

Stop button: stop control

Down button: down control

2. Setting button

S1: To set limits, delete single channel programming, delete all programmings etc.

S2: For network configuration, motor power-on and programming etc.

3. Choose channel

Right channel: channel increase

Left channel: channel decrease

4. Low voltage prompt

When the remote-control is less than 20% of the total power (3.65V), the brightness of the LED display will be dimmed.