# Grandview®

## Hidetech BII Series Recessed Screen
## Installation Manual

Model: HT-MI xxx II、HT-MF xxx II

# Grandview®

Thank you for purchasing a Grandview product.
Before use, please read this manual carefully and keep it for future reference.

ISO9001:2015
International Certification

intertek

UKAS
MANAGEMENT
SYSTEMS
014

## Warnings

- The ceiling or wall used for fixture installation must be secure to prevent the screens from falling.
- Please read the following as any damage to the screen surface will affect the quality of the picture:
  1. Avoid contact or touching the screen surface as it may cause scratches or tears.
  2. Do not write or draw on the surface.
  3. Do not damage the surface of screen by knife or finger
  4. Clean the screen with a soft cloth and lukewarm water. Do not use any detergent or cleaning

- Please retract the screen after using
- Make sure the Fixing screw be fastened when using the wall bracket, to avoid any damage.
- Roll up the screen after every use. Ensure that the screen is level when installing; do not pull on the sides or fold the screen.
- To prevent unnecessary damage, the operating and maintenance of the screen should be done by adults.

### Attention:

- Please make sure there is no dust or dirt on the fabric surface before rolling it back to the casing .

| | | | |
|---|---|---|---|
| **Warning** | Ignoring the safety warnings may lead to injuries and/or damaging the product. | **Mandatory** | Fixtures should be installed in a secure place to avoid accidents or the screen falling. |
| **No Hanging Items** | Refrain from hanging anything on the screen as it may cause the screen to fall. | **Mandatory** | Roll up the screen after every use. Leaving it hanging for a long period of time may cause the fabric to loosen. |
| **Prohibition of Disassembly** | Do not disassemble the screen or loosen any screws. For repair or adjustment, please contact your dealer or qualified service personnel. | | |

Note: Do not disassemble or replace any components without authorization. For malfunctions, contact after-sales service. Specifications may change without prior notice.

## Operation Guidelines

### D. Dry Contact Control

When using an RJ45 8P8C connector, pins from left to right are:
Pin 3 = Stop, Pin 4 = Up, Pin 5 = Down, Pin 8 = Common (see Fig. 17).

### E. DC12V Trigger Control

For DC trigger control via RJ45 8P8C connector: Pin 6 = DC 12V+, Pin 7 = DC 12V-  (see Fig. 17).
When DC 12V is applied, the screen deploys; when DC 12V is disconnected, the screen retracts.

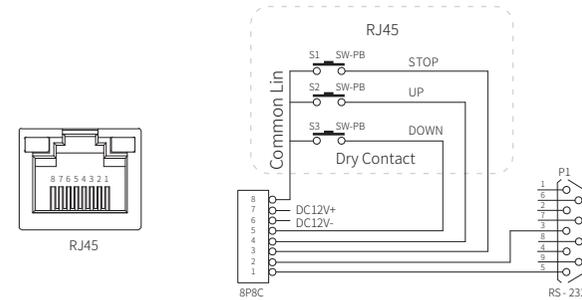| RJ45 Pin Function Table | | | | | | | |
|---|---|---|---|---|---|---|---|
| Pin Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Function | RS485-B RS232-GND | RS485-A RS232-TXD | STOP | UP | DOWN | 12V+ | 12V- | Common Lin |



Figure 17

## Operation Guidelines

● Electronic Limit Setting (Infrared Remote Control)

Open the back cover of the infrared remote control. Use a pin to briefly press the "Set" button on the back of the remote control (see Fig. 28 ). The blue LED will flash once, and the screen will jog up and down once to indicate that setting mode has been activated.

### 1. Lower Limit Setting

After entering setting mode, lower the screen to the desired position and press the Stop button. Then press the Stop and Down buttons simultaneously. The screen will jog up and down once to confirm that the lower limit has been set.

### 2. Upper Limit Setting

After entering setting mode, raise the screen to the desired position and press the Stop button. Then press the Stop and Up buttons simultaneously. The screen will jog up and down once to confirm that the upper limit has been set.

## C. RS485/RS232 Control:

The control output port is connected to an RJ45 (8P8C) plug, withlines 1 and 2 being the control lines. For RS485 control connection, line 1 is D-, and line 2 is D+. For RS232 control connection, please refer to the diagram shown:Figure16.
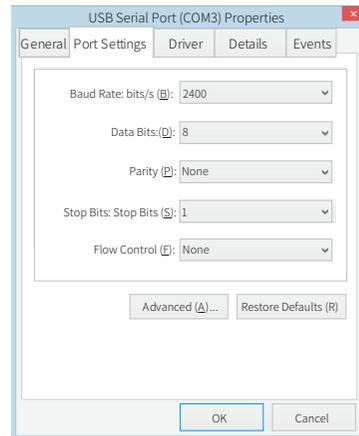
RJ45    8P8C    RS232

Figure 16
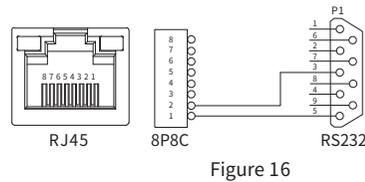
### RS485/RS232 port settings:

● Baud Rate: 2400
● Data Bits: 8 bits
● Parity: None
● Stop Bits: 1

Hexadecimal Control Codes:
● Retract: FF EE EE EE DD
● Stop: FF EE EE EE CC
● Extend: FF EE EE EE EE
● Some central control devices require an address code to be set: FF EE EE EE AA
● Address Learning Command: FF XX XX XX AA
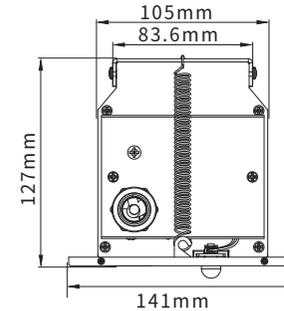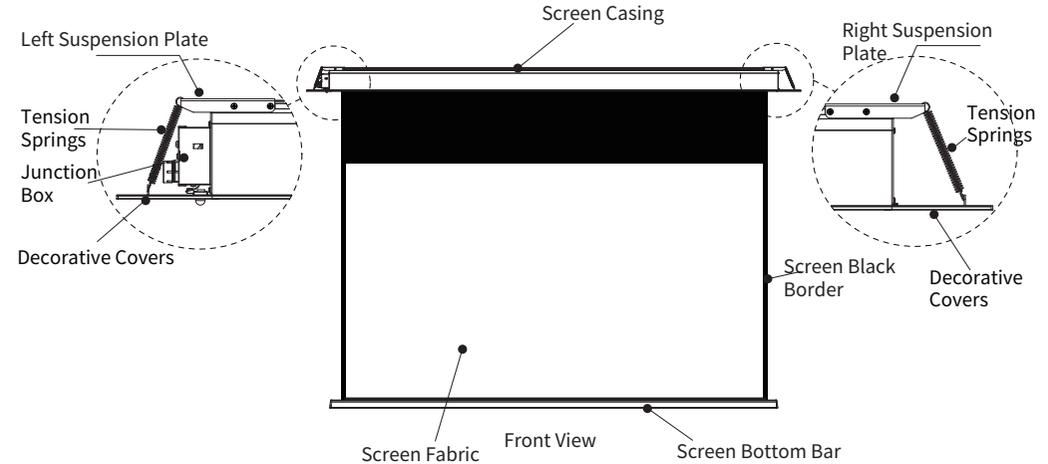(XX XX XX represents any hexadecimal characters except E and 5)

USB Serial Port (COM3) Properties

General | Port Settings | Driver | Details | Events

Baud Rate: bits/s (B): 2400
Data Bits:(D): 8
Parity (P): None
Stop Bits: Stop Bits (S): 1
Flow Control (F): None

Advanced (A)...    Restore Defaults (R)

OK    Cancel

Note:
When connecting RS232 or RS485, if the screen cannot becontrolled to perform related actions, please swap the twocontrol lines.
The wiring loop resistance should be less than 20Ω.
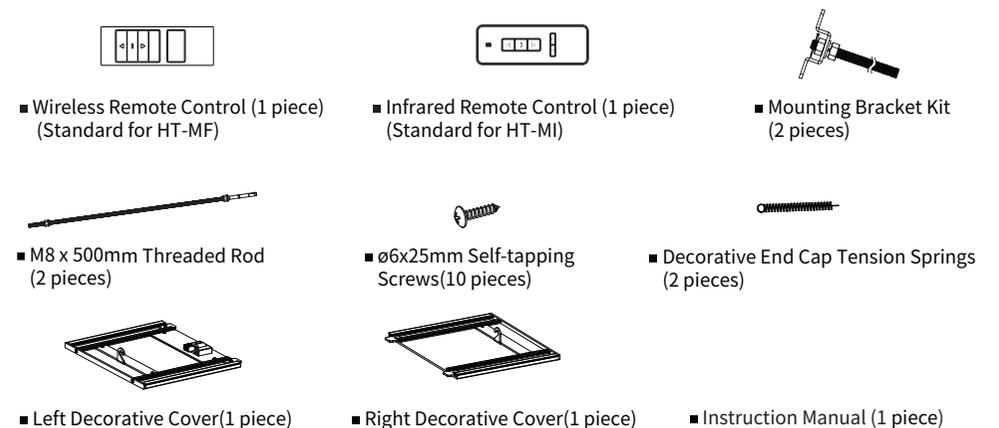Do not run wiring parallel to strong interference sources.

## Screen Structure Diagram

Left Suspension Plate

Screen Casing

Right Suspension Plate

Tension Springs

Junction Box

Tension Springs

Decorative Covers

Screen Black Border

Decorative Covers

Screen Fabric    Front View    Screen Bottom Bar

105mm
83.6mm
127mm
141mm

Ceiling Opening Dimensions:
Opening Length (Lt) = Total Screen Length (L) - 25 mm,
Opening Width: 115 mm, Height: ≥157mm.

Motor Specifications:
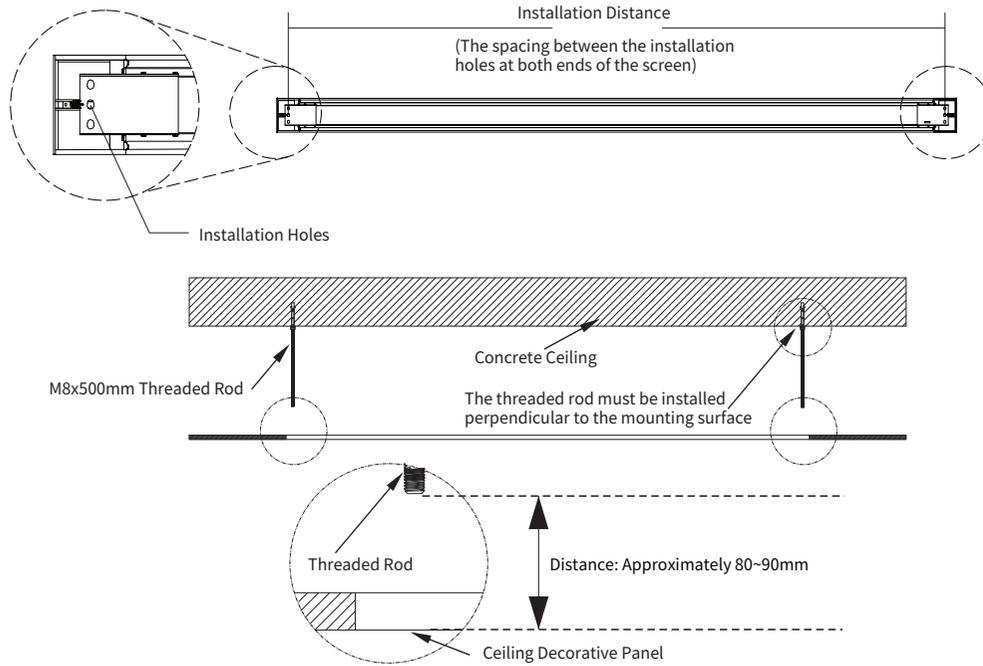Voltage: AC 100–240 V / 50–60 Hz
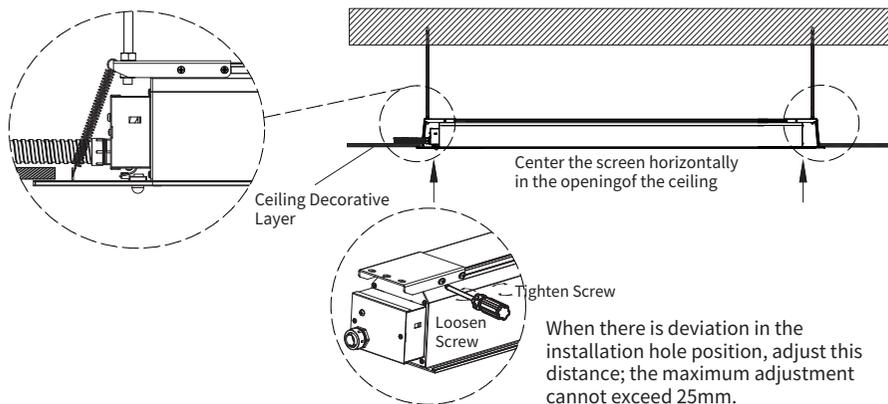Power: 50 W
Torque: 6 N·m

## Accessory Diagram

■ Wireless Remote Control (1 piece) (Standard for HT-MF)

■ Infrared Remote Control (1 piece) (Standard for HT-MI)

■ Mounting Bracket Kit (2 pieces)

■ M8 x 500mm Threaded Rod (2 pieces)

■ ø6x25mm Self-tapping Screws(10 pieces)

■ Decorative End Cap Tension Springs (2 pieces)

■ Left Decorative Cover(1 piece)

■ Right Decorative Cover(1 piece)

■ Instruction Manual (1 piece)

## Installation Steps

### Concrete Ceiling Installation:

Confirm the installation distance based on the position and height of the ceiling opening, drill vertical installation holes, insert expansion screws, screw the rod into the expansion screw, and fasten the rod. Cut the rod to the vertical distance from the installation wall to the ceiling decorative surface:80-90mm.

Installation Distance

(The spacing between the installation holes at both ends of the screen)

Installation Holes

Concrete Ceiling

M8x500mm Threaded Rod

The threaded rod must be installed perpendicular to the mounting surface

Threaded Rod

Distance: Approximately 80~90mm

Ceiling Decorative Panel

● Lift the screen with caution, guiding the threaded rod through the suspension holes on each side. Attach and secure the screen with nuts and washers, then use tools to evenly tighten the nuts on both sides until the screen is firmly positioned against the ceiling.

Ceiling Decorative Layer

Center the screen horizontally in the openingof the ceiling

Tighten Screw

Loosen Screw

When there is deviation in the installation hole position, adjust this distance; the maximum adjustment cannot exceed 25mm.

## Operation Guidelines

### B. Infrared Remote Control

AC-127 Infrared Remote Transmitter Button Functions: ( Figure9 -10 )

1. "Up" button: Screen ascends.

2. "Stop" button: Screen stops.

3. "Down" button: Screen descends.

4. "Up Jog" button: Fine-tune screen ascent.

5. "Down Jog" button: Fine-tune screen descent.

Indicator Light

Up Button

Stop Button

Down Button

Up Jog Button

Down Jog Button

Set Button

MODEL：AC-127

Figure 9

Rear
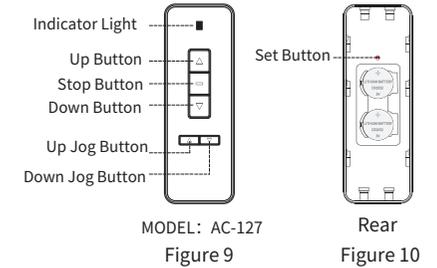
Figure 10

● Remote Usage Notes:

1. Point the remote at the screen's left end cover infrared receiver (effective range: ~8 meters).

2. Remote effective angle: ±30° from the transmitter axis (Figure 11).

3. Receiver effective angle: ±30° from the receiver axis (Figures 12–13).

4. Do not block the remote's transmitter or screen's receiver.

5. Infrared signals travel in straight lines; ensure no obstructions.

6. Avoid humid or high-temperature environments.

7. Replace batteries if the remote range decreases or the indicator dims.
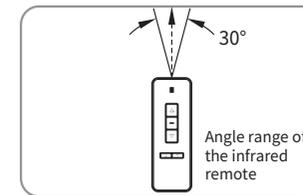
30°

Angle range of the infrared remote

Figure 11

Angle range of the infrared receiver

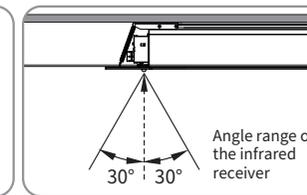30° 30°

Figure 12

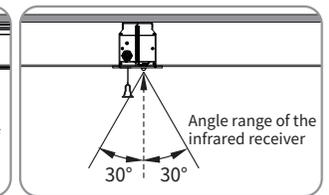Angle range of the infrared receiver

30° 30°

Figure 13

● Battery Installation:

When the remote signal weakens, replace the batteries (2x CR2032 button cells). Do not mix old and new batteries.

1. Turn the remote over and slide the battery cover open (Figure 14).

2. Insert batteries according to the polarity markings (Figure 15).
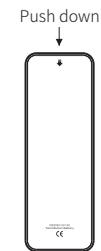
3. Close the battery cover.

Push down

Figure 14

Figure 15

## Operation Guidelines

### RF Remote Operating Instructions

1. Operating Frequency: 433.92 MHz
2. Operating Temperature Range: -20°C to +70°C
3. Battery Type: One CR2450 coin-cell battery
4. Battery Replacement: Replace the battery promptly when the remote signal becomes weak to ensure proper operation.

### Remote Control Battery Installation

When the remote signal weakens, replace the battery as follows:
1. Slide open the battery cover on the back of the remote ( Figure 3 ).
2. Insert the battery according to the indicated polarity ( Figure 4 ).
3. Close the battery cover.

Battery

Slide downward to open

Figure 3      Figure 4
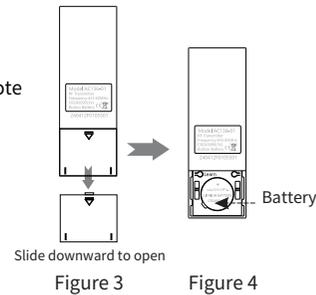
### ● Remote Control Pairing (Factory Paired)

Disconnect power, wait 10 seconds, then reconnect.
The screen jogs once to indicate power-on.
Within 10 seconds, press Stop + Up simultaneously.
The screen jogs again to confirm pairing.
Note:
Odd attempts = Pairing
Even attempts = Unpairing

Press both buttons simultaneously; the screen jogs to indicate successful pairing.

Figure 5
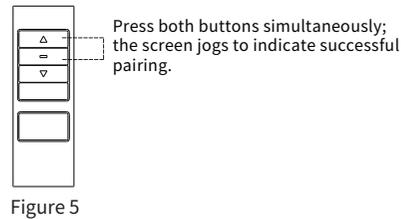
### ● Electronic Limit Setting ( Wireless Remote Control )

Open the back cover of the wireless remote control. Briefly press the "Learn" button on the back of the remote control (see Fig. 6). The screen will jog up and down once to indicate that setting mode has been activated.
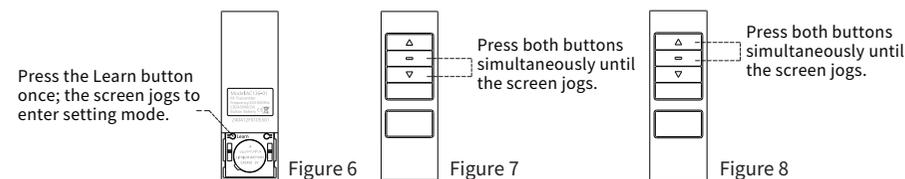
1. Lower Limit Setting

After entering setting mode, lower the screen to the desired position and press the Stop button. Then press the Stop and Down buttons simultaneously. The screen will jog up and down once to confirm that the lower limit has been set. ( Wireless remote: see Fig. 7 )

2. Upper Limit Setting

After entering setting mode, raise the screen to the desired position and press the Stop button. Then press the Stop and Up buttons simultaneously. The screen will jog up and down once to confirm that the upper limit has been set. ( Wireless remote: see Fig. 8 )
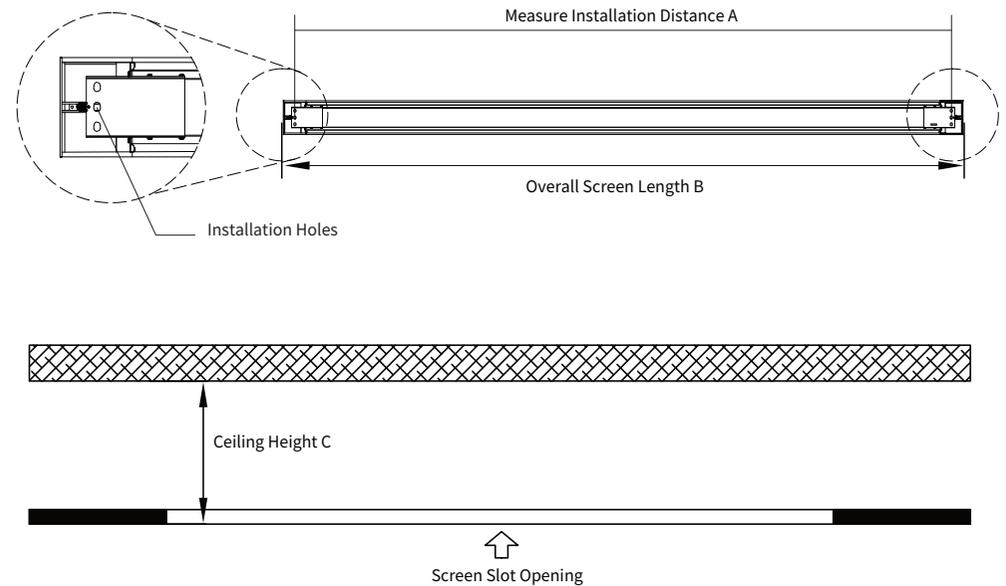
Note:

● The upper electronic limit is factory preset to an optimal position and typically does not require adjustment.

● In setting mode, the screen operates in step mode. Short-press the Up or Down button for incremental movement; press and hold for 3 seconds for continuous movement.

● If no operation is performed within 30 seconds, the system will automatically exit setting mode.
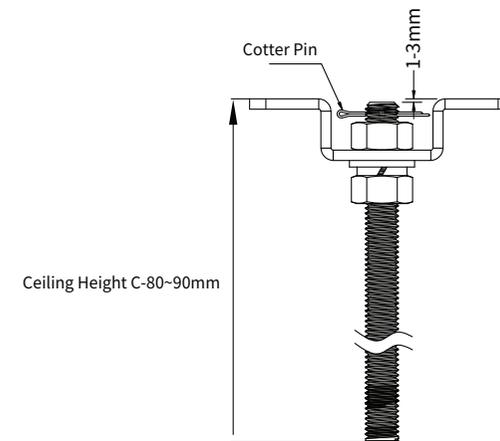
Press the Learn button once; the screen jogs to enter setting mode.

Press both buttons simultaneously until the screen jogs.

Press both buttons simultaneously until the screen jogs.

Figure 6      Figure 7      Figure 8

## Installation Steps

### Wooden Ceiling Installation
### (Ensure reinforcement at the suspension load-bearing points)

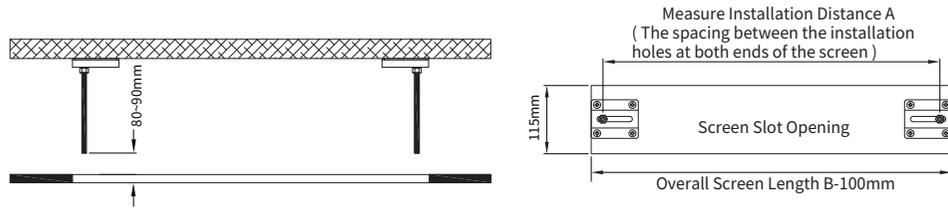● Use a tape measure to measure A ( mounting hole spacing on the brackets) and C ( ceiling height ).

Measure Installation Distance A

Overall Screen Length B

Installation Holes

Ceiling Height C

Screen Slot Opening

● Threaded Rod Assembly Instructions：Secure the threaded rod to the mounting plate using two M8 nuts through the elongated slot.Ensure the rod head does not protrude below the mounting plate surface. Drill a cotter pin hole at the rod head to prevent loosening and potential safety hazards.Determine the required rod length based on ceiling height and cut accordingly (refer to diagram).
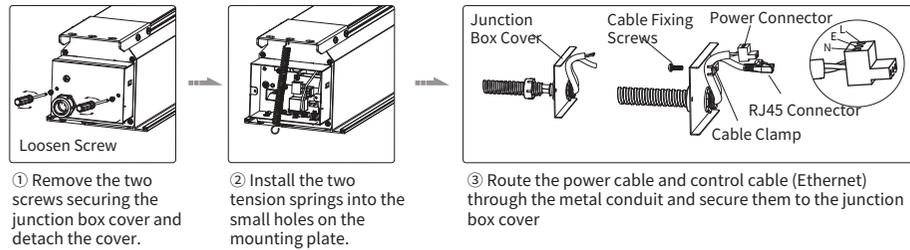
Cotter Pin

1-3mm

Ceiling Height C-80~90mm

● Install the left decorative cover on the end with the power cord by following the illustrated steps below. Theprocedure for installing the right decorative cover mirrors this process.

Opening Distance

Snap into Inner Groove

Press flat

Push evenly
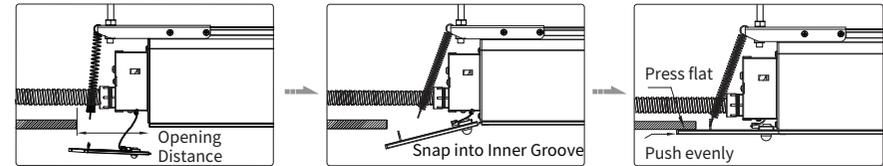
① Before Installation: Ensure there is sufficient clearance at the opening. Gently pull the tension springs and hook the circular holes of the springs onto the decorative cover hooks.

② Slide the two tabs of the left decorative cover into the corresponding grooves of the casing. Engage the tabs into the inner slot.

③ Press the left decorative cover smoothly against the ceiling, ensuring its level with the casing on both sides, then push directly towards the wall until it's aligned with the casing.

## Operation Guidelines

This electric projection screen supports multiple control methods. Choose the one that suits your needs:

A. Wireless RF Remote Control

B. Infrared Remote Control

C. RS485/232 Control

D. Dry Contact Control

E. DC12v Trigger Control

### A. Wireless RF Remote Control

**AC136 Wireless Remote Control — Button Functions**

1. Press the Up button, screen retract to set position.
2. Press the Stop button, screen will pause.
3. Press the Down button, the screen will extend to set position.

Up
Stop
Down
Learn button

MODEL: AC-136
Figure 1

Rear View
Figure 2