

Grandview[®]

Hidetech A Series Recessed Motorized Screen Installation Manual

Model: HT-MI xxx 、 HT-MF xxx

Grandview[®]



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

Precautions

- The ceiling or wall used for installation must have sufficient load-bearing capacity to prevent the screen from falling.
- Dirt or scratches on the screen surface may affect image quality. Please observe the following precautions:
 1. Do not touch the screen surface with your hands.
 2. Do not write or draw on the screen surface.
 3. Do not puncture or scratch the screen fabric with fingers or sharp objects, as this may cause permanent damage.
 4. Do not use thinners, solvents, or other corrosive cleaning agents to clean the screen fabric.
- After use, always retract the screen completely into the housing.
- For wall-mounted installation, ensure all mounting points are level so that the screen remains properly aligned when fully deployed.
- Do not pull the sides of the screen fabric by hand. Folding the screen fabric is strictly prohibited.
- To avoid unnecessary injury, installation, operation, and maintenance should be performed by adults only.

Important Notice:

- Before retracting the screen into the housing, ensure the screen surface is free from dust, insects, or foreign objects.

 Warning	 Mandatory
 Do Not Hang Objects	 Mandatory
 Do Not Disassemble	

Failure to follow these warnings or improper operation may result in personal injury, loss of life, or product damage.

The screen must be installed on a structure with sufficient load-bearing capacity. Failure to do so may result in accidents or screen detachment.

Do not hang any objects from the screen housing or bottom bar, as this may cause the product or screen fabric to fall.

After use, retract the screen into the housing to protect it from dust and contamination.

Do not disassemble the screen or loosen any screws. For repair or adjustment, please contact your dealer or qualified service personnel.

Note: Users must not disassemble or replace any components without authorization. If a malfunction occurs, please contact the service department for repair. Product functions and structures are subject to 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

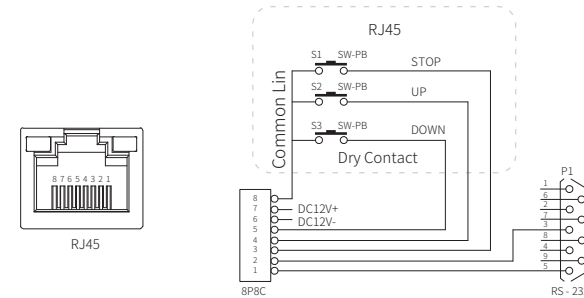


Figure 17

Operation Guidelines

C. RS485/RS232 Control:

The control output port is connected to an RJ45 (8P8C) plug, with lines 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: Figure 16.

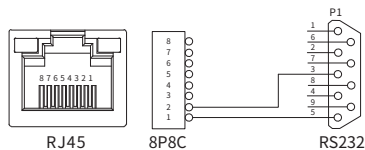


Figure 16

RS485/RS232 port settings:

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

Hexadecimal Control Codes:

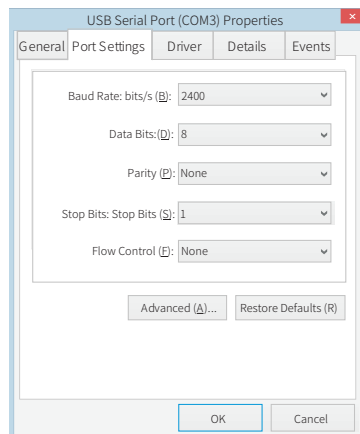
- Retract: FF EE EE EE DD
- Stop: FF EE EE EE CC
- Extend: FF EE EE EE EE
- Some central control devices require an address code to be set: FF EE EE EE AA
(XX XX XX represents any hexadecimal characters except E and 5)
- Address Learning Command: FF XX XX XX AA
(XX XX XX represents any hexadecimal characters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

Note:

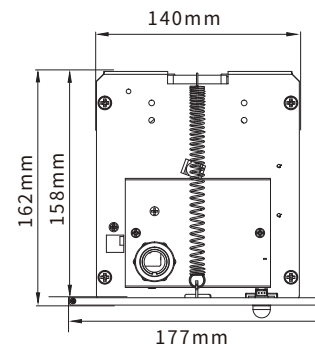
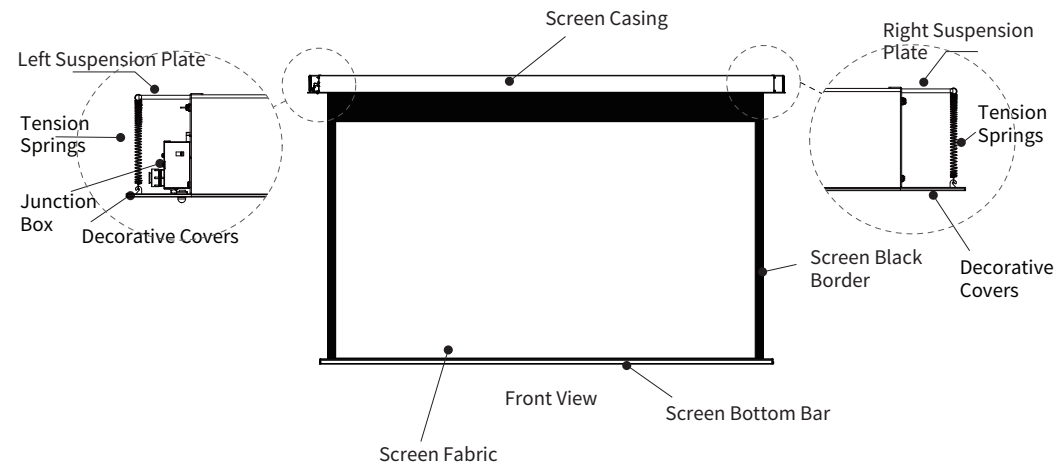
When connecting RS232 or RS485, if the screen cannot be controlled to perform related actions, please swap the two control lines.

The wiring loop resistance should be less than 20Ω.

Do not run wiring parallel to strong interference sources.



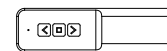
Screen Structure Diagram



Ceiling Opening Dimensions:
Opening Length (Lt) = Total Screen Length (L) - 25 mm,
Opening Width: 150 mm, Height: ≥192mm.

Motor Specifications:
Voltage: AC 100–240 V / 50–60 Hz
Power: 80 W / 50W
Torque: 20 N·m / 6 N·m

Accessory Diagram



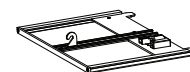
- Wireless Remote Control (1 piece)
(Standard for HT-MF)



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



- Decorative End Cap Tension Springs (2 pieces)



- Left Decorative Cover (1 piece)



- Right Decorative Cover (1 piece)



- M8 x 500mm Threaded Rod
(2 pieces)



- Allen Key (1 piece)



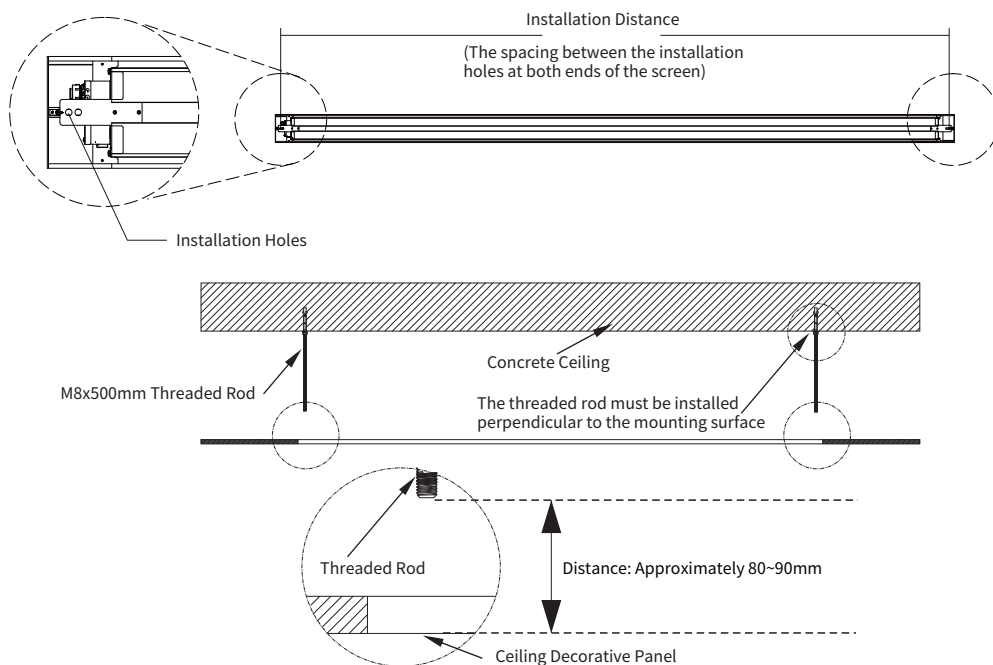
- Mounting Bracket Kit (2 pieces)

- Instruction Manual (1 piece)

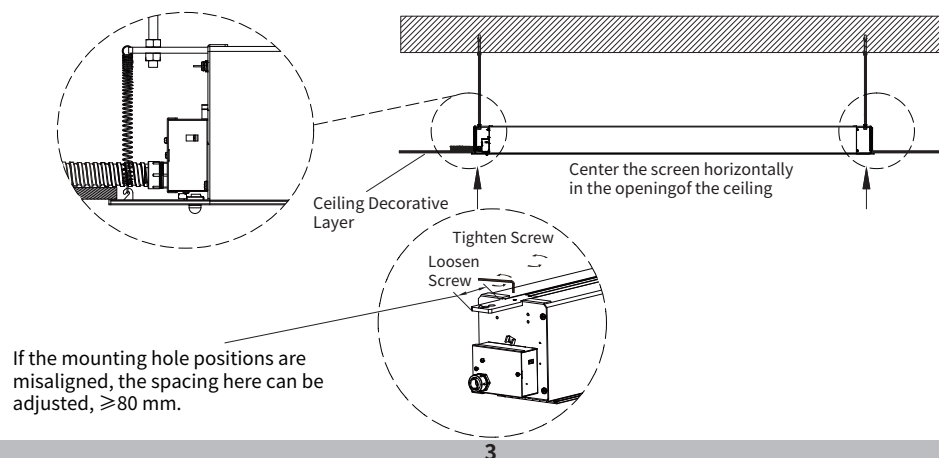
Installation Steps

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.



- 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.



Operation Guidelines

● Remote Usage Notes:

1. Point the remote at the screen's left end cover infrared receiver (effective range: ~8 meters).
2. Remote effective angle: $\pm 30^\circ$ from the transmitter axis (Figure 11).
3. Receiver effective angle: $\pm 30^\circ$ 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.

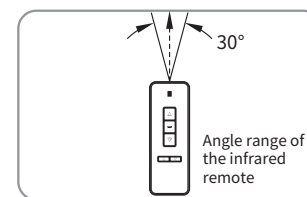


Figure 11

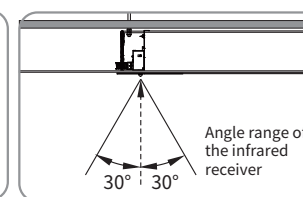


Figure 12

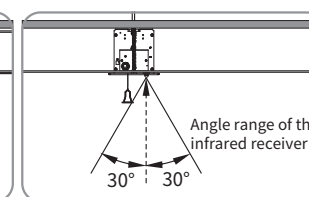


Figure 13

● 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.

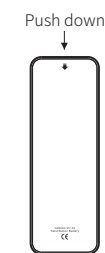


Figure 14

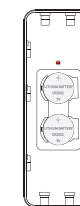


Figure 15

● 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. 10). 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.

Operation Guidelines

● 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



Figure 5

● Electronic Limit Setting (Wireless Remote Control)

Open the back cover of the wireless remote control. Briefly press the “S1” 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 2 seconds for continuous movement.
- If no operation is performed within 30 seconds, the system will automatically exit setting mode.

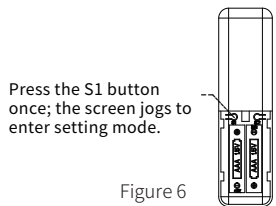


Figure 6

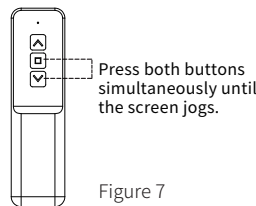


Figure 7

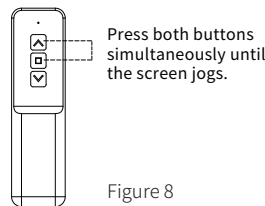


Figure 8

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.

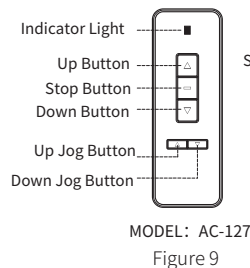


Figure 9

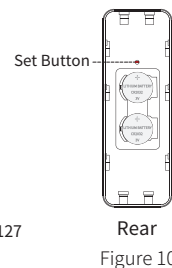


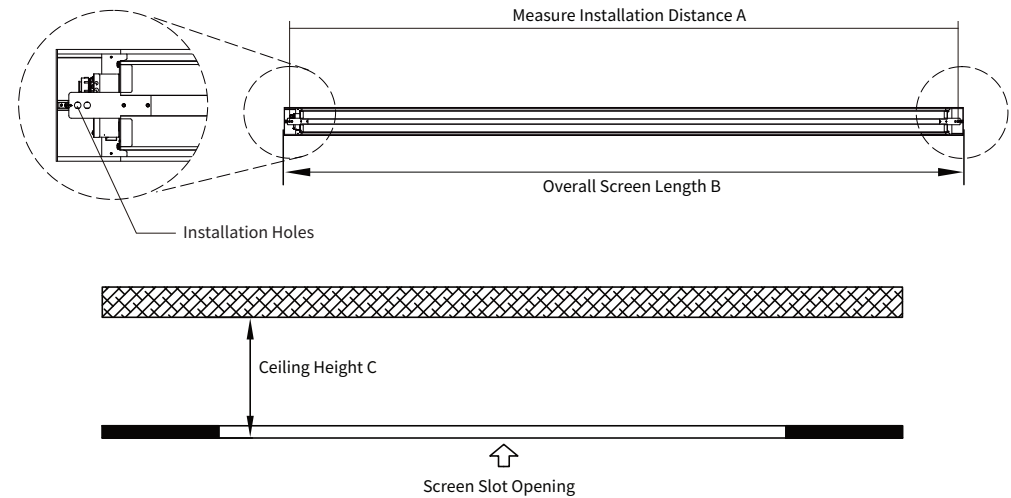
Figure 10

Installation Steps

Wooden Ceiling Installation

(Ensure reinforcement at the suspension load-bearing points)

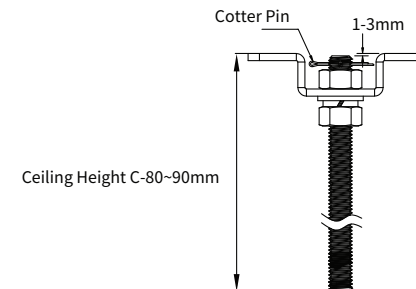
- Use a tape measure to measure A (mounting hole spacing on the brackets) and C (ceiling height).



WARNING

The screen must be securely mounted to a structurally sound surface capable of supporting at least four times the total weight of the screen. Ensure that the mounting surface and all mounting hardware provide adequate load-bearing and fastening strength. Failure to do so may cause the screen to detach and fall, resulting in serious injury or property damage.

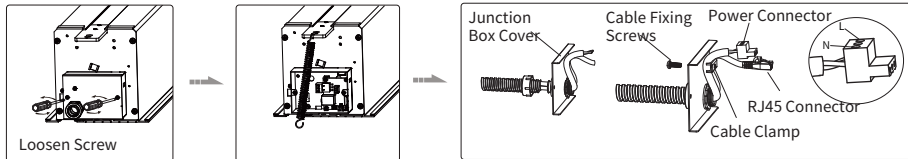
- Threaded Rod Assembly Instructions: Secure the threaded rod to the mounting plate using two M8 nuts through the elongated slot. Ensure the rod head does not protrude below the mounting plate surface. Drill a cotter pin hole at the rod head to prevent loosening and potential safety hazards. Determine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



Installation Steps

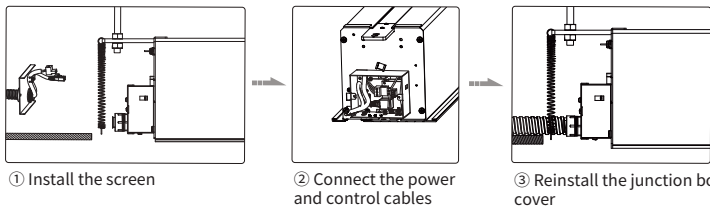
Wiring and Decorative Cover Installation

- Before installing the screen, remove the junction box cover and prepare the wiring as shown.

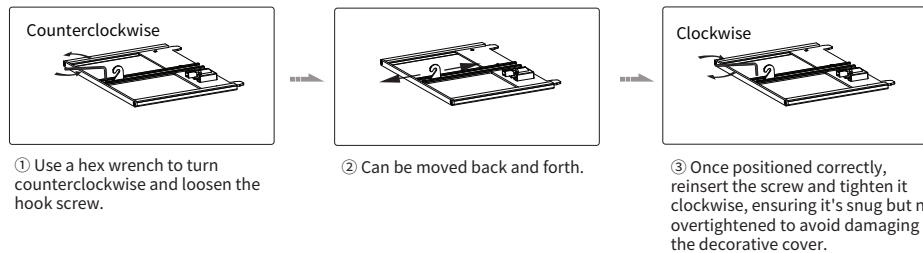


- 1 Remove the two screws securing the junction box cover and detach the cover.
- 2 Install the two tension springs into the small holes on the mounting plate.
- 3 Route the power cable and control cable (Ethernet) through the metal conduit and secure them to the junction box cover

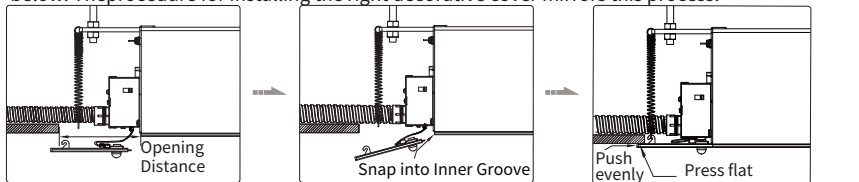
- After the screen installation is complete, connect the power and control cables to the control board, then reinstall the junction box cover.



- The hook position on the decorative cover can be adjusted as follows.



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



- 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 it's level with the casing on both sides, then push directly towards the wall until it's aligned with the casing.

Operation Guidelines

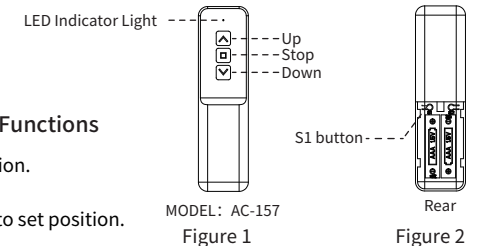
This electric projection screen supports multiple control methods. Choose the one that suits your needs:

- 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

AC157 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.



RF Remote Operating Instructions

1. Operating Frequency: 433.92 MHz
2. Operating Temperature Range: -20°C to +70°C
3. Battery Type: Two AAA 1.5V dry batteries
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.

