Grandview

Hidetech Series Recessed ALR Tab-Tension Screen
Installation Manual

Model:HT-MI xx
HT-MF xx

Grandview

Caution

● When you select the ultra-short throw ambient light rejection screen, the standard configuration for the projector is table-top projection, which is determined prior to production. For customized requirements, it can be altered to ceiling mount projection.

Thank you for choosing Gandview products. Please read the manual carefully before installation and use.

ISO9001:2015
International Certification
intertek UKAS

Screen Structure Diagram

Left Suspension Plate

Screen Casing

Right Suspension Plate

Spring

Spring

Left Decorative Cover

Right Decorative Cover

Built-in Retractor

Screen Fabric

Front View

Screen Bottom Bar

105mm

119mm

141mm

Ceiling Opening Dimensions: The length of the opening Lt = total length of the screen L - 25mm, the width of the opening 115mm, height >120mm

Accessories

Left Decorative Cover
(1 piece)

Right Decorative Cover
(1 piece)

Limit Adjustment Key
(1 piece)

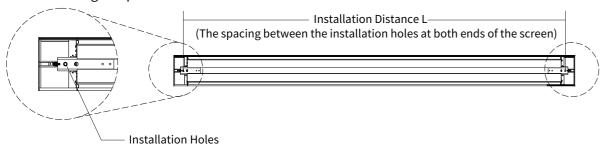M8 x 500mm Threaded Rod
(2 pieces)

Brush (1 piece)

Installation Steps

Calculate the installation distance with reference to the ceiling cutout's position and height, drill vertical holes accordingly, drive in the expansion screws, and fasten the threaded rods into these screws securely. Once the rods are vertically secured to the mounting wall, trim the rod's length to maintain an approximate 80-90mm gap from the ceiling's decorative surface.
Refer to the diagram provided.

Installation Distance L
(The spacing between the installation holes at both ends of the screen)
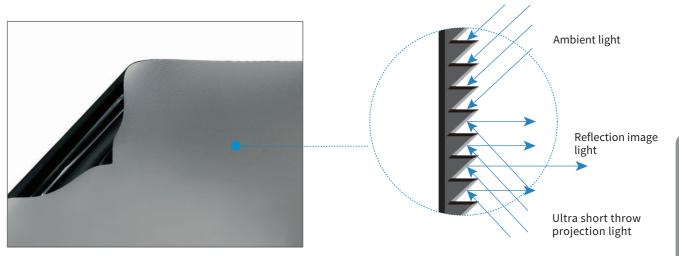
Installation Holes

Maintenance

Ultra-short throw ambient light rejection fabric: DO NOT USE RAG OR PAPER TOWEL TO WIPE
● Use brush provided to brush lightly horizontally along the texture of the screen to remove dust or other fine particles.
●For light-colored smudges that affects viewing, try removing with residue-free tape.
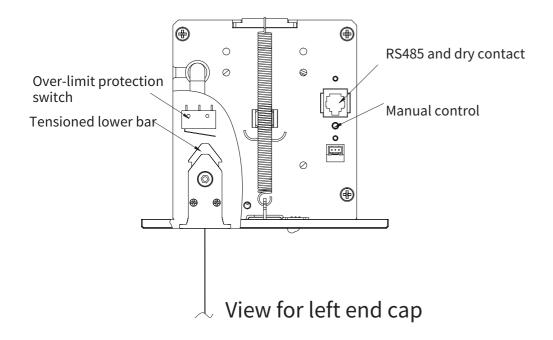
Troubleshooting

①Black grid fabric surface is carved with optical grating tooth，enabling the targeted reflection for ultra-short throw projector light beam and forming the viewing image. Projection theory as below picture shown: Screen adsorbs only the ambient light from the top but resistance to ambient light from horizontal side will be weaken, please pay attention to the light beam direction when applied.

Ambient light

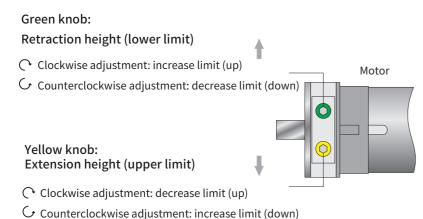Reflection image light

Ultra short throw projection light

②The screen surface is created using a seaming process. The seams may exhibit a certain degree of curvature due to the tension applied above and below, which does not affect the actual projection and is considered a normal phenomenon.

Setting the top/bottom limit:

If have to adjust height limit for installation environment reasons,you can adjust the limit setting by using a provided adjustment bar insert into the adjustment hole which onthe left down area of motor. As below figure:

Over-limit protection switch

Tensioned lower bar

RS485 and dry contact

Manual control

View for left end cap

Green knob:
Retraction height (lower limit)

↻ Clockwise adjustment: increase limit (up)

↺ Counterclockwise adjustment: decrease limit (down)

Motor

Yellow knob:
Extension height (upper limit)

↻ Clockwise adjustment: decrease limit (up)

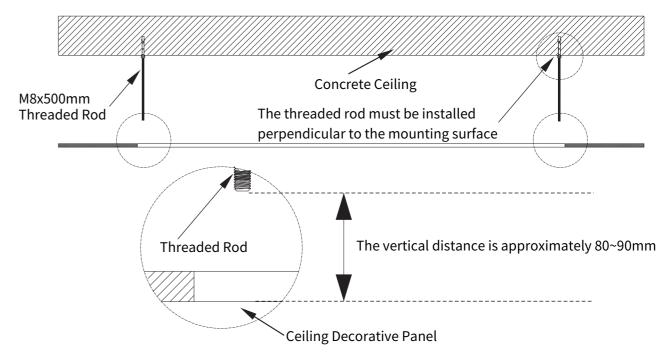↺ Counterclockwise adjustment: increase limit (down)

Note:

Please operate carefully, in case of screen overretract causing motor or screen damage.While extending more fabric,please add blackboarder within 10CM or it will cause fabric break and fall.

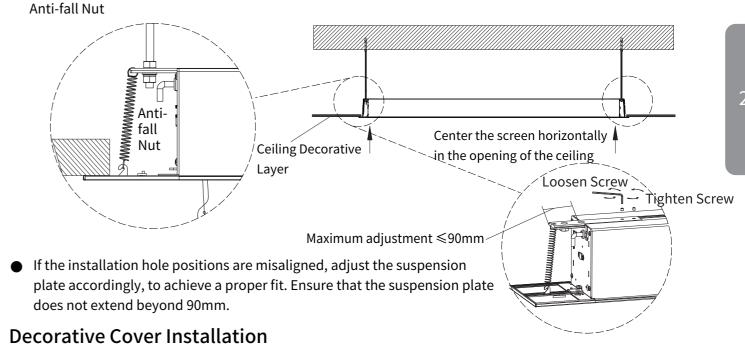Screen: Voltage AC220-230V/50-60HZ,0.5Amp, power 100watts.RF remote
(F): Voltage 3V, use CR2032*2 battery;
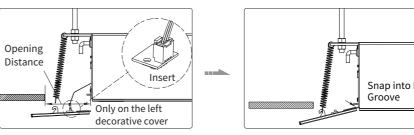Radio Frequency:868MHz
lR remote : voltage 3V, use CR2032 battery

M8x500mm Threaded Rod

Concrete Ceiling

The threaded rod must be installed perpendicular to the mounting surface

Threaded Rod

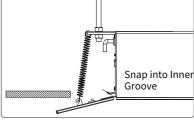The vertical distance is approximately 80~90mm

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.
Anti-fall Nut

Anti-fall Nut

Ceiling Decorative Layer

Center the screen horizontally in the opening of the ceiling

Loosen Screw

Tighten Screw

Maximum adjustment ≤90mm

● If the installation hole positions are misaligned, adjust the suspension plate accordingly, to achieve a proper fit. Ensure that the suspension plate does not extend beyond 90mm.
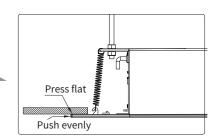
Decorative Cover Installation

● 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.

Opening Distance

Insert

Only on the left decorative cover

Snap into Inner Groove

Press flat

Push evenly

①Before beginning the installation, confirm that the opening has enough clearance. Connect the infrared line, then lightly stretch the spring, and attach it to the decorative cover's hook through the spring's circular opening.
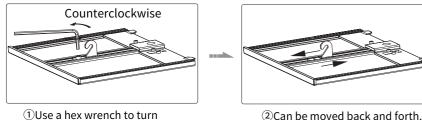
②Slide the two tabs of the left decorative cover into the corresponding grooves of the casing. Engage the tabs into the inner slot
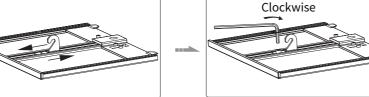
③Press the left decorative cover smoothly against the ceiling, ensuring its level with the casing on both sides, then push directly towards the wall until it's aligned with the casing.

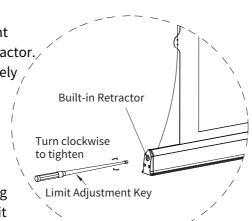● The hook position on the decorative cover can be adjusted as follows.

Counterclockwise

①Use a hex wrench to turn counterclockwise and loosen the hook screw.

②Can be moved back and forth.

Clockwise

③Once positioned correctly, reinsert the screw and tighten it clockwise, ensuring it's snug but not overtightened to avoid damaging the decorative cover.
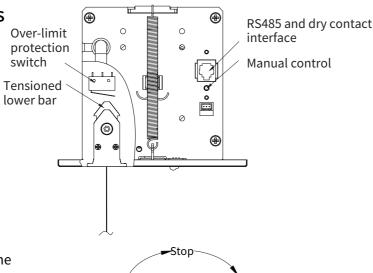
Screen Tension Line Adjustment

Hold the bottom bar firmly with your hand, take the limit adjustment key,and align its smaller end with the hexagonal hole inside the retractor. Gently press inward to adjust the tension shaft until it can rotate freely (turn clockwise to tighten, counterclockwise to loosen), adjust the tension line tothe required tightness, release the pressing force to let the shaft pop out and reset, completing the adjustment.
Grasp the bottom bar securely, insert the smaller end of the Limit adjustment key into the hexagonal opening of the bottom bar, and apply gentle pressure to engage. Adjust the tension shaft by rotating (clockwise to increase tension, counterclockwise to decrease) until it moves freely. Set the desired tension, then release the key to let the shaft reset, finalizing the adjustment.

Built-in Retractor

Turn clockwise to tighten

Limit Adjustment Key

Functions and Instructions

This product has four control methods.

A.Manual Control
B.RF Remote Control/
  IR Remote Control
  (IR Receiver Needed)
C.Dry Contact
D.RS485/RS232 Control

Over-limit protection switch

Tensioned lower bar

RS485 and dry contact interface

Manual control
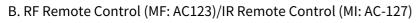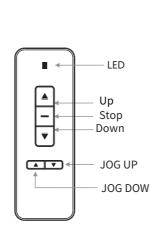
A. Manual Control

The Manual Control is located near the Dry contact and RS485 control. Pressing the button will command the screen to extend, pressing the button will command the screen to stop, then again to retract, then stop in sequence.

Stop

Up   Manual   Down
      Cycle

Stop

B. RF Remote Control (MF: AC123)/IR Remote Control (MI: AC-127)

● Press the Up button, screen retract to set position.
● Press the Stop button, screen will pause.
● Press the Down button, the screen will extend to set position.
● Tap the Jog Up button to adjust the screen's upward movement slightly.
● Tap the Jog Down button to adjust the screen's downward movement slightly.
● The wireless transmitter has been factory-paired with the screen and can be reset if needed.

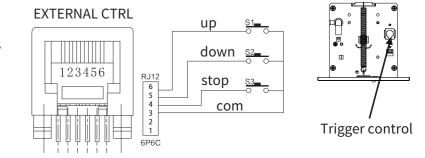LED

Up
Stop
Down

JOG UP

JOG DOWN

Model:AC -127/AC123

Pairing/Unpairing (Remote have been paired at factory)
Disconnect the power supply for 10 seconds and then reconnect, press the Up and Stop button simultaneously within 10 seconds of reconnection. The motor will rotate forward and then backward once signaling a successful pairing.
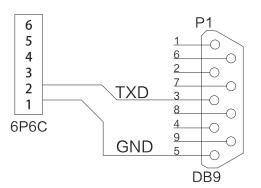
C.Dry contact control:

The control output port is connected to an RJ12 6P6C plug, starting from the left, lines 3-6 being the control lines, 5 – DOWN, 6 - UP, 3 - COMMON, 4 - STOP.

EXTERNAL CTRL

123456

RJ12

up   S1
down S2
stop S3
com

Trigger control

D. 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:

6P6C

TXD
GND

P1

DB9

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

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.

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