5 Motorized
Owner’s Manual

Control - DCT with 12v & IR Trigger

INSTALLERS: PLEASE LEAVE THIS MANUAL WITH THE OWNER.
Limited 1 year warranty on Screen Innovations products

Screen Innovations warrants its products, to the original purchaser only, to be free from defects in materials and workmanship for a period of one (1) year from the date of purchase by the original purchaser provided they are properly operated according to Screen Innovations' instructions and are not damaged due to improper handling or treatment after shipment from the factory.

This warranty does not apply to equipment showing evidence of misuse, abuse, or accidental damage, or which has been tampered with or repaired by a person other than authorized Screen Innovations personnel.

Screen Innovations' sole obligation under this warranty shall be to repair or to replace (at Screen Innovations' option) the defective part of the merchandise. Returns for service should be made to your Screen Innovations' dealer. If it is necessary for the dealer to return the screen or part to Screen Innovations, transportation expenses to and from Screen Innovations are payable by the purchaser and Screen Innovations is not responsible for damage in shipment. To protect yourself against damage or loss in transit, insure the product and prepay all transportation expenses.

This warranty is in lieu of all other warranties, express or implied, including warranties as to fitness for use and merchant ability. Any implied warranties of fitness for use, or merchantability, that may be mandated by statute or rule of law are limited to the one (1) year warranty period. This warranty gives you specific legal rights, and you may also have other rights, which vary from state-to-state. No liability is assumed for expenses or damages resulting from interruption in operation of equipment, or for incidental, direct, or consequential damages of any nature.

In the event that there is a defect in materials or workmanship of a Screen Innovations product, you may contact our Sales Partners at 9715-B Burnet Road Suite 400, Austin, TX 78758, (512) 832-6939.

Important: this warranty shall not be valid and screen innovations shall not be bound by this warranty if the product is not operated in accordance with screen innovations' written instructions.

Keep your sales receipt to prove the date of purchase and your original ownership.
*NOTE: Screws are provided to mount to wooden structural supports only. If other substrate is present then installer must provide appropriate fasteners.
**PRE-WIRING - 110v / 220v AC - Pigtail Power**

1. Make sure an appropriate junction box or power receptacle is located within 5ft of the installation location.
2. Wire in the pigtail power cable at the junction box per electrical code standards.

* NOTE: Screws are provided to mount to wooden structural supports only. If other substrate is present then installer must provide appropriate fasteners.

**Pre-Wiring - DCT Control - Cat 5e/ UTP**

1. Make sure your UTP/Cat5e cable is within 100 ft (30m) of your 3rd party Control Systems/ Wall Switch.
2. If your 3rd party Control/ Wall Switch is more than 100ft, you must used a shielded UTP/ Cat5e cable.

* Installer must follow all local electrical codes when connecting AC line voltage power.

For more details on Control refer page 17
Installation requires two or more people. Use proper lifting techniques while handling.

Measure the case length and record the measurement. If pre constructing the pocket then refer to the screen builder for the F dimension for your particular size screen.

Installation - Flush
Measure Case & Cut Out Pocket

1. Measure the case length and record the measurement. If pre constructing the pocket then refer to the screen builder for the F dimension for your particular size screen.

2. Calculate the pocket ceiling dimensions as shown blow and prepare the ceiling pocket as prescribed below.

It is highly recommended to provide a 6’ x 12” access panel at the left end of the case and/or make sure the left end of the case can be accessed from inside the ceiling or attic.
**INSTALLATION - FLUSH**

**Add End Flange & Remove Weight Bar Lock**

3. Line up the holes on the removable flanges with the holes in the end plates. Then install and hand tighten the flat head screws as shown.

4. Remove the tagged Weight Bar Locks.

**INSTALLATION - FLUSH**

**Mounting Flush L-Brackets**

5a. Mount the L brackets either to a vertical or horizontal structural support as shown. Make sure brackets are level and plumb. Mounting screws have been provided for mounting to wood structural supports only. If mounting to other substrate then installer must provide appropriate fasteners.

⚠️ Each bracket must be able to hold 200lb load.
**INSTALLATION - FLUSH**

Hang Case on L-Brackets and Raise Up

**6a** Make sure the hooks on the L brackets are adjusted down. Then raise the case up and hook the case into all 4 hooks on every bracket.

Tighten the screws in the L brackets to raise up the case until the end flanges touch the ceiling.

**INSTALLATION - FLUSH**

Mounting Flush Suspended Brackets

**5b** Install minimum 3/8” threaded rod to structural members in the ceiling per the drawing below.

Parts to be supplied by installer

- Threaded Rod 3/8” Minimum
- Nut
- Washer

Install the suspended ceiling bracket kits onto the case as shown below. Move the brackets to match the horizontal position of the threaded rods and then lock down with all 4 screws in each suspended ceiling bracket assembly.
**INSTALLATION - FLUSH**

Hang Case on Suspended Brackets and Raise Up

6b. Raise the case up and guide the threaded rods through the holes in the suspended ceiling brackets. Secure with nuts and washers supplied by the installer.

Use the nuts connected to the threaded rods to raise the case up until the end flanges touch the ceiling.

**INSTALLATION - EXTERNAL**

Measure case & Mount L Brackets

1. Measure the case length and record the measurement.

2. Mount the L brackets either to a vertical or horizontal structural support as shown. Make sure brackets are all along the same level line and plumb. Mounting screws have been provided for mounting to wood structural supports only. If mounting to other substrate then installer must provide appropriate fasteners.

⚠️ Each bracket must be able to hold 200lb load.
INSTALLATION - EXTERNAL
Remove Weight Bar Lock, Hang Case and Raise Up

3. Remove the tagged Weight Bar Locks.

4. Make sure the hooks on the L brackets are adjusted down. Then raise the case up and hook the case into all 4 hooks on every bracket. Then tighten the screws in the brackets until the case firmly presses against the L brackets.

EXTERNAL

TRIM INSTALLATION - FLUSH
Flush Trim Install

1. Hook the larger front closure into the case opposite the weight bar and then rotate down to secure. Make sure the trim is hooked into the case along entire length before

2. Hook the smaller back closure into the case on the side of the weight bar and then rotate down to secure. Make sure the trim is hooked into the case along entire length.
TRIM INSTALLATION - FLUSH
Flush Trim Locking

Insert the bumpers into the holes in the endplates. Press the pin in the bumper until you feel a SNAP indicating the bumper is secured. Before proceeding make sure the bumpers are secured to the endplates. Do this at both ends of the screen.

TRIM INSTALLATION - EXTERNAL
Fascia Install & Fascia Lock

1. Hook the front trim into the case opposite the weight bar and then rotate down to secure. Make sure the trim is hooked into the case along entire length before proceeding.

2. Hook the fascia onto the front of the case as shown below.
Use the 9/64" hex key to loosen the two screws securing the fascia lock. Then slide the lock down to lock the fascia in place. Finally secure the fascia lock by hand tightening the 2 screws securing the fascia lock position. Do this on both ends of the case.

**RJ45 inputs(3) have been provided which all operate the same. An additional 1/8" (3mm) mono low voltage trigger is also provided.**

### Wiring colors for standard Cat 5 Cable

<table>
<thead>
<tr>
<th>568b</th>
<th>Orange/White</th>
<th>Orange</th>
<th>Green/White</th>
<th>Blue</th>
<th>Blue/White</th>
<th>Green</th>
<th>Brown/White</th>
<th>Brown</th>
</tr>
</thead>
</table>

- **568b UP** - Pin 3 (GND) - Pin 4
- **568b DOWN** - Pin 6
- **Momentary Contact UP**
- **Momentary Contact DOWN**
- **UP - Pin 3**
- **DOWN - Pin 6**
- **NOT USED - Pin 5**

**RJ45 Male Plug**

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**CONTROLS - Inputs / Contact Closures**

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**EXTERNAL**

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### CONTROLS - WIRING - Wall Switch

**Wall Switch buttons**

- ▲ Send Motor to Upper Limit
- ▼ Stop Motor
- ▼ Send Motor to Lower Limit

**Back of the switch**

|------|-------------|-------------|-----------------------|-----------------------|-----------|---------------------|-------------|------------|

**Wiring colors for wall switch cable provided.**

RJ45 - 9 - 12 ft Provided

- If longer than 100 ft, cable must be shielded

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### CONTROLS - SETTING THE LOWER LIMITS

1. Connect the RJ45 end of the provided wall switch cable to any port on the screen. Connect the smaller RJ9 port to the back of the wall switch.

2. Slide the wall switch down to the lower position as shown.

**Wall Switch**

- 9 - 12 ft Provided
- If longer than 100 ft, cable must be shielded

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3 Hold the down button on the wall switch to move the screen down to the desired lower limit. When you release the button the screen will stop. You can adjust the position by momentarily pressing the down or up button.

NOTE: Do not move the screen past the MAX DROP position.
NOTE: Do not press the stop button. The screen will stop when you release the button. The stop button can program a secondary position which is not useful for a projection screen.

Slide the switch up to the middle position to lock in your position as the new lower limit. Your lower limit is now set and the screen is in the normal operating mode.

4 DO NOT press and hold the stop button at any time. It will record an intermediate position which will not be useful for your projection screen.

NORMAL OPERATION: Press and release the UP arrow to move the screen to the upper limit.
Press and release the DOWN arrow to move the screen to the lower limit.
While the screen is in motion press and release the STOP button to stop the screen at its current position.

SET LIMITS: Press and hold the DOWN button or UP button to position your screen at the desired lower limit.
Slide the switch to the center position to save the limit and return to normal operating mode.

Setting the upper limit incorrectly could damage your screen. Contact screen innovations if you are having problems with your upper limit position.
WALL SWITCH - REVERSE SCREEN DIRECTION

If the screen moves opposite direction from the button pressed. Then use the following procedure to reverse the motor direction.

1. Slide the switch to the down position
2. Hold the STOP button for 3 seconds
3. Press the down button to make sure the screen direction is correct.
4. Slide the switch to the center position to return to normal operation.

CONTROLS - IR REMOTE

Plug in the included IR eye to any of the RJ45 ports on the case. Then use the included remote to operate the screen. Make sure that there is a clear line of site between remote and IR eye.

Plug in the included IR eye to any of the RJ45 ports on the case. Then use the included remote to operate the screen. Make sure that there is a clear line of sight between remote and IR eye.
3RD PARTY CONTROL SYSTEMS

IR Hex Codes

Use a 3rd party universal remote to control the screen via the IR eye. SI recommends using a learning remote to learn the codes from the included IR remote. However, the IR HEX codes can be used to manually program them into your universal remote or 3rd party control system.

<table>
<thead>
<tr>
<th>Code 1</th>
<th>Code 2</th>
<th>Code 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000 006c 0000 000c 0006 011b 0006 006b 00bb 0006 00bb 0006 00bb 0006 00bb 0006 011b 0006 08a4</td>
<td>0000 006c 0000 000c 0006 011b 0006 006b 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 011b 0006 00bb 0006 08a4</td>
<td>0000 006c 0000 000c 0006 011b 0006 006b 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 011b 0006 00bb 0006 08a4</td>
</tr>
</tbody>
</table>

3RD PARTY CONTROL SYSTEMS

Low Voltage Trigger (LVT)

A low voltage trigger output from a projector or a controls system is a simple robust way to control your screen. Simply connect the low voltage trigger output from projector or control system to the input on the case as shown below. The screen will move to it’s lower limit whenever 3-12 V DC is applied to the low voltage trigger port. When the voltage drops to zero the screen will return to it’s upper limit.

Tip DC +3V to +12V
50mA min

Shielded 2 Conductor wiring
24 Gauge or Larger. 750ft (228 m) Max. supplied by installer. Plugs must be rated for 50 mA min. Recommend all connections be soldered.

ADJUSTING THE SCREEN TENSION

1. Press in the button and turn knob counter clockwise untill the string is loose.

2. Turn the knob clockwise 2 to 4 clicks at a time untill there is tension on the string. The strings should have minimal tension on them only.

⚠️ DO NOT OVERTIGHTEN TAB TENSION STRINGS: Tab tension strings will NOT flatten out major wrinkles in the screen. Overtightening the tab tension strings can result in damage to your screen material.
TROUBLESHOOTING

Problems related to electrical or motor function may require a qualified service person or electrician. Should you have a problem that is not addressed here, call: Screen Innovations (512-832-6939.) http://www.screeninnovations.com/category/support/

<table>
<thead>
<tr>
<th>Problem Description</th>
<th>Probably Cause</th>
<th>Action to Take</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor shuts off. Motor has been in use for more than 2 minutes.</td>
<td>Motor is designed for short operations (lowering and retracting), not continuous duty. Longer operation, causes the motor to overheat and shutoff. This typically happens during installation when testing the screen.</td>
<td>Allow the motor to cool down. Complete cooling can take an hour or more. Heat gain is cumulative and takes time to dissipate. If motor use is initiated before it has cooled completely, the motor will shut down again when it reaches maximum temperature.</td>
</tr>
<tr>
<td>When down button is pressed, screen stops halfway</td>
<td>An intermediate stop was set for the motor.</td>
<td>Call SI Customer Support to fix at 512.832.6939, Opt. 1</td>
</tr>
<tr>
<td>AC Screen won’t run</td>
<td>No AC power available.</td>
<td>Check to see if the circuit breaker has switched off. Reset if needed. Check outboard switching apparatus. Check voltage availability. Contact an electrician.</td>
</tr>
</tbody>
</table>

TROUBLESHOOTING

It is 100% programmed and tested at the factory. In case of a malfunction please use the troubleshooting guide table.

<table>
<thead>
<tr>
<th>Problem Description</th>
<th>Probably Cause</th>
<th>Action to Take</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dirt, fingerprints, marks, etc. on screen surface.</td>
<td>Improper handling of screen.</td>
<td>Follow clean instructions outlined in the Screen Care and Cleaning Section. <a href="https://www.screeninnovations.com/category/support/faq/general/#how-to-clean-your-projection-screen">https://www.screeninnovations.com/category/support/faq/general/#how-to-clean-your-projection-screen</a></td>
</tr>
<tr>
<td>Indentations appear on screen surface.</td>
<td>Debris or particles adhering to screen due to static cling.</td>
<td>Check back of screen as well as front of screen for dust or debris. Wipe the back of the screen with a clean damp cloth. Also, lightly brush off the front of the screen.</td>
</tr>
<tr>
<td>Wrinkles near bottom of screen.</td>
<td>Screen material has stretched and thus increased the tension on the tabs.</td>
<td>Follow the adjusting tab tension section</td>
</tr>
<tr>
<td>Vertical wrinkles in screen</td>
<td>Material has shifted at the weight bar</td>
<td>Gently move the material out to each end of the weight bar until smooth.</td>
</tr>
<tr>
<td>Dimples in screen</td>
<td>Debris rolled up in screen material</td>
<td>Clean material per instructions on Pg 30.</td>
</tr>
</tbody>
</table>

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