5 Motorized
Owner’s Manual

Control - RTS

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 merchantability. 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 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

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.

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PARTS IN THE BOX - FLUSH - 110v AC
L-Bracket / Suspended Ceiling Bracket

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

(2) End flanges
(4) 8-32 x 3/8' flat head screws
(4) Closure Bumpers
Idler Retraction Tool

RTS ONLY
Telis 1 Remote

* Wood Screws
(2 pair) Gloves
PARTS IN THE BOX - FLUSH - 24v DC
L-Bracket / Suspended Ceiling Bracket

- 24V Power Supply
- * Wood Screws
- (2 pair) Gloves
- (4) Closure Bumpers
- (4) 8-32 x 3/8" flat head screws
- (2) End flanges
- Idler Retraction Tool
- LV - RTS ONLY
  - Weidmuller connector
- RTS ONLY
  - Telis 1 Remote

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

PARTS IN THE BOX - EXTERNAL - 110v AC

- Screen
- Front Closure
- Rear Closure
- L - Brackets
- Suspended Ceiling Bracket Kit
- Gloves
- Idler Retraction Tool
- RTS ONLY
  - Telis 1 Remote
- * Wood Screws
- (2 pair) Gloves
- L Brackets

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

⚠️ Antenna is part of Pigtail Cable. At least 12” outside of the case must be exposed. Do not cut the cables shorter than 12”.

⚠️ Installer must follow all local electrical codes when connecting AC line voltage power. Certified electrician is required to connect pigtail power.
PRE-WIRING - 24v - RTS

1. Run minimum 2 conductor wire to the left side of screen cassette installation location. To be sure you have the correct wire, order directly from SI (Part # - Non-Plenum - 800269/9020126 and Plenum rated - 9020127). If you are using third party wire, follow the power wire distance chart below to ensure use of the correct wire gauge for the 24v DC wires.

2. Terminate the wires with the provided terminal block shown below.

<table>
<thead>
<tr>
<th>Distance (ft.)</th>
<th>Standard Cu Wire Guage (min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>over 100</td>
<td>12</td>
</tr>
<tr>
<td>100</td>
<td>14</td>
</tr>
<tr>
<td>90</td>
<td>16</td>
</tr>
<tr>
<td>80</td>
<td>18</td>
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<tr>
<td>70</td>
<td>20</td>
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<td>60</td>
<td>22</td>
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<td>50</td>
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<td>20</td>
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<tr>
<td>15</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

Do not use any combination above the line.

MOUNTING CASING - TYPE

Installation requires two or more people. Bend knees when lifting.

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.

---

EXTERNAL

- FLUSH SUSPENDED

- FLUSH L BRACKET

---
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 below 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.

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.

\[
F = \text{in/cm}
\]

\[
F = \frac{3}{4} + \frac{1}{8} = \frac{1}{4} \text{ (0.64 cm)}
\]

\[
Z = 8 \frac{1}{8} + \frac{1}{8} = 8 \frac{1}{4} \text{ (20.6 cm)}
\]

\[
W = \frac{1}{4} \text{ (0.64 cm)}
\]
INSTALLATION - FLUSH
Mounting Flush L Brackets

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.

![Diagram of L brackets installation]

Each bracket must be able to hold 200lb load.

A A

7” - 2”
(17.8 cm - 5 cm)

200 lbs
(90kg)

Each

Z

TO

7 1/4”
(18.4 cm)

OR

7 3/8”
(18.7 cm)

INSTALLATION - FLUSH
Hang Case on L-Brackets and Raise Up

Installation requires two or more people. Bend knees when lifting.

![Diagram of case hanging on L-brackets]

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.

![Diagram of raising case]

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
- Washer
- Nut

**Structural Member**

<table>
<thead>
<tr>
<th>4” - 12” (17.8 cm - 5 cm)</th>
<th>4” - 12” (17.8 cm - 5 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ceiling</strong></td>
<td><strong>Z</strong></td>
</tr>
</tbody>
</table>

**Approx 7 15/16”**

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.
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 proceeding.

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 before proceeding.

TRIM INSTALLATION - FLUSH
Flush Trim Locking

3. 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.

Hook the fascia onto the front of the case as shown below.

2. 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.
The RF remote, supplied with the screen, controls the deployment and retraction from up to 30 feet away. Enjoy!

RF controlled projection screens operate at 433.42MHz. Minimize or eliminate any sources of RF interference and shielding. Any metal, wire, or foliage can reduce or block the signal - reducing the operating range of the controls. Other nearby transmitters may cause interference also.

1. Connect the power supply - 5 Motorized with an RTS motor is shipped with the remote already paired to the screen. Plug the power supply into the wall and plug the connectors together.

2. The screen is ready for operation.

Setting the Drop - 5 Motorized is factory preset to have 12" to 48" of drop, the distance between the top of the viewing area and the cassette. The drop can be changed to be up to the MAX DROP (see model number or order information for your screen's max drop) to customize the viewing surface's vertical position. To adjust the drop, do the following:

1. Press the down button on the RF remote to send the screen to its lower limit and wait until it stops there. Screen must be at its current lower limit before you can alter it.

2. Hold the UP and DOWN buttons simultaneously until the screen jogs once.

3. Use the DOWN and UP buttons to position the viewing area vertically, up to Max Drop from the bottom of the cassette.

> DO NOT set the lower limit (top of viewing) more than MAX DROP from the cassette. Doing so risks damaging the screen material.

4. Once the viewing area is positioned, hold the middle square STOP button until the screen jogs once. This saves the new lower limit. If this Step is not completed, the screen will jog once after about 3 minutes, indicating that its no longer in program mode, and the motor will only recall the previous lower limit. No changes will be saved.
PAIRING ANOTHER RF REMOTE USING ORIGINAL REMOTE

If another remote was purchased, it will not come paired to your screen motor. To pair it, first take the working remote supplied with the 5 Motorized and press the Program button on the back of the remote until the screen jogs once. Holding the new remote, briefly press* the Program button on the back. The screen will jog once. The new remote is now paired with the screen.

*A brief press is about ½ second long. Too short or too long of a button press may not perform the desired operation.

CONTROLS
24v DC - RTS Motor with Power Supply

CONTROLS
24v DC - RTS Motor with Power by Janus
1. Press in the button and turn knob counter clockwise until the string is loose.

2. Turn the knob clockwise 2 to 4 clicks at a time until 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.

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**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/

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>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>
<tr>
<td>DC Screen won't run</td>
<td>No power to Low Voltage supply</td>
<td>Check for power at your plug and/ check for breaker box.</td>
</tr>
<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">https://www.screeninnovations.com/category/support/faq</a> GENERAL/#HOW-TO-CLEAN-YOUR-PROJECTION-SCREEN](<a href="https://www.screeninnovations.com/category/support/faq">https://www.screeninnovations.com/category/support/faq</a> GENERAL/#HOW-TO-CLEAN-YOUR-PROJECTION-SCREEN)</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>
**TROUBLESHOOTING**

<table>
<thead>
<tr>
<th>Problem Description</th>
<th>Probably Cause</th>
<th>Action to Take</th>
</tr>
</thead>
<tbody>
<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>RTS won't operate</td>
<td>Remote too far away.</td>
<td>Move to within 30 ft. of screen.</td>
</tr>
<tr>
<td></td>
<td>Remote orientation</td>
<td>Hold remote vertical</td>
</tr>
<tr>
<td></td>
<td>RF interference</td>
<td>Turn off other sources of RF</td>
</tr>
<tr>
<td></td>
<td>RF Shielding</td>
<td>Move to position where metal objects, wiring, or foliage does not block the signal.</td>
</tr>
<tr>
<td></td>
<td>Remote battery is dead</td>
<td>Replace with CR2430 3V lithium button battery</td>
</tr>
<tr>
<td></td>
<td>Antenna is not exposed.</td>
<td>Adjust the antenna location.</td>
</tr>
<tr>
<td></td>
<td>Incorrect or poor cable termination.</td>
<td>Check the wire pinouts and termination. Look for broken, loose, or damaged wires. Determine if necessary.</td>
</tr>
</tbody>
</table>

![Diagram of LinkPro Connect](image)