

Solo / Pro 2

Installation Instructions

24v DC Motors



Please use these QR Codes to access the updated installation instructions and video tutorials.



Solo 2



Solo Pro 2

Thank you for purchasing an SI product. If you have any questions or need any assistance with your Solo Pro, we would love to help you.

Technical Support: 512.832.6939

Hours of Support: 7:30am - 5pm CST

screeninnovations.com

support@screeninnovations.com


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INITIAL CONSIDERATIONS

Thank you for your purchase of Solo/Pro 2. The screen is mountable outdoors, but is not waterproof. It has not been designed to be run or left in the rain or condensing humidity. Also avoid water spray, splash and extreme heat or cold. Protect your Solo/Pro 2 and you can expect years of quality use.

For a quick install it is recommended you run appropriate wire to the installation location before installing the screen. See the Pre-Wire sections for your particular control method for details.

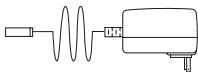
-  **The Short Throw material is not 100% opaque.**
Light sources behind the screen may be visible in the viewing surface.

24v DC RTS - Parts in the Box



PWR

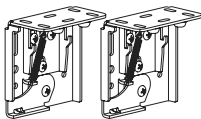
Solo/Pro 2 screen



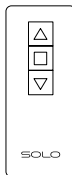
24v DC Power
Supply



Terminal block
receptacle and bracket



(2) Ceiling/Wall
Locking brackets



RF Remote

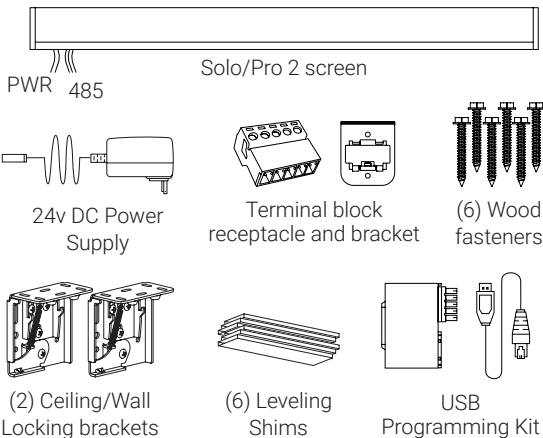


(6) Leveling Shims



(6) Wood
fasteners

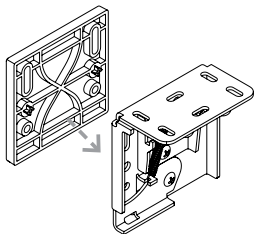
24v DC 485 - Parts in the Box



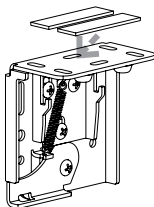
Additional accessories required for 485 control (pg 43)

SPACER BLOCKS & LEVELING SHIMS

Spacer Blocks are used to clear an obstruction on the wall. Connect spacer block to each wall bracket before installation.

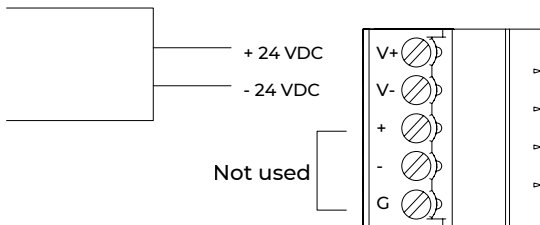


Leveling Shims are used if the ceiling or other mounting surface is out of level or plumb. Connect to ceiling brackets before installation.



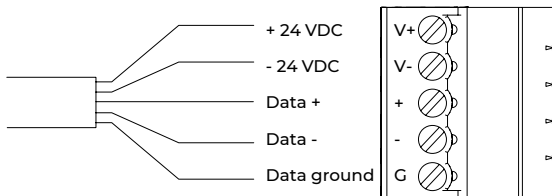
PRE-WIRE - 24v DC RTS

1. Run 2 conductor wires to the left side of screen cassette installation location (refer to pg. 11). Follow the power wire distance chart (refer to pg. 7) to ensure use of the correct wire gauge.
2. Terminate the wires with the provided terminal block as shown below.



PRE-WIRE - 24v DC 485

1. Run minimum 5 conductor wire to the left side of screen cassette installation location (refer to pg. 11). 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 (refer to pg. 7) to ensure use of the correct wire gauge for the 24 VDC wires.
2. Terminate the wires with the provided terminal blocks shown below.



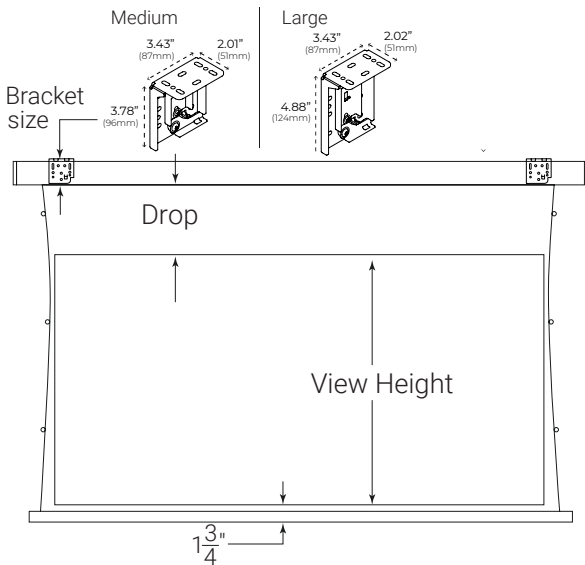
Pre-Wire - 24v DC 485

INSTALLATION

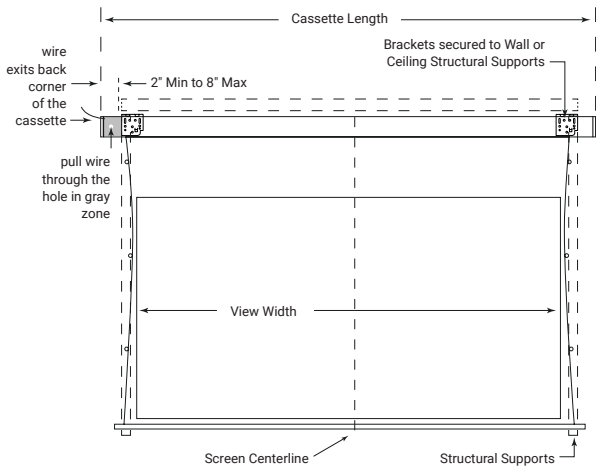
Proper mounting preparation will ensure a great installation. Mounting brackets must be level to each other, as well as plumb. They must be screwed into structural members of some kind, such as ceiling joists or wall studs. You may use the wood screws provided, or other anchors (not provided) capable of carrying the load, that are suitable to the substrate.

DO NOT MOUNT TO HOLLOW SHEET ROCK.

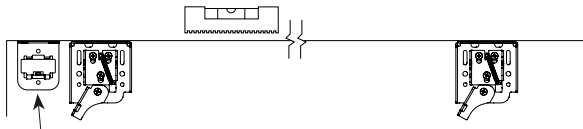
1. The drop is adjustable in the field between 0" and the MAX DROP (12", 24", or 36", **2" for short throw**) ordered for your screen. Use the drawing (refer to pg. 9) to pick a bracket height that will allow you to extend your screen to achieve the desired vertical position of your viewing area.



2. Determine the desired horizontal viewing position centerline of the projected viewing area.
3. The Solo/Pro 2 screen must be installed with the brackets between 2 - 8" range from each end of the cassette. Measure the overall length of the cassette to determine the min and max horizontal spacing of the mounts. Mark the location of the brackets over a stud or ceiling joist and within an appropriate distance from the ends. If the location of the stud or ceiling joist does not allow the center of the screen to match the projector lens' center, another board or plate will have to be installed on the wall or ceiling to take the mount fasteners.

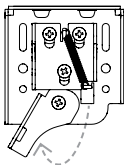
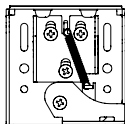


4. Secure the brackets to the wall or ceiling structural supports using appropriate fasteners. Make sure the brackets are along the same level line. Install the terminal block bracket next to the left bracket. This bracket is used to hold the power and/or controls terminal block easily out of sight.



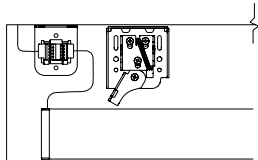
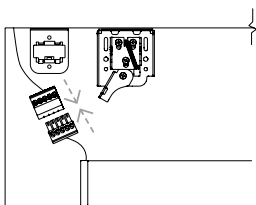
terminal block bracket

5. Ensure the wall bracket lever is down.



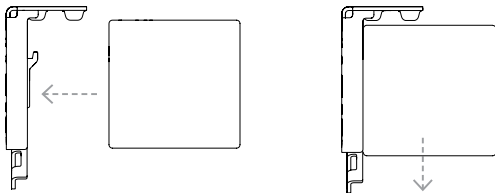
Proper position
for installing
screen

6. Connect the screen terminal block to the pre-wire terminal block. Then press the connected terminal block into the mount.

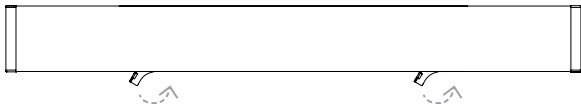


7. Hang the screen on the mounting brackets ensuring that all hooks are engaged in the channel in the back of the cassette.

⚠ Hanging the screen, will require 2 people.



8. Slide the cassette left to right to verify it is positioned at your desired viewing location, then lock the screen in place, rotating the wall bracket lever to the upward position.

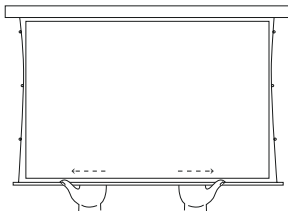


⚠ Remove the weight bar screw before deploying screen (see red label on the weight bar)

9. Use your preferred control method to deploy the screen material and remove the weight bar shipping locks.

FLATTEN THE MATERIAL AT THE WEIGHT BAR

1. Bump the bottom of the weight bar up several times along it.
2. Use 2 fingers to pinch the material just above the middle of the weight bar & lightly pull on the material to smoothe out any wrinkles at the weight bar.
3. Repeat the process to move the material from the center toward the other edge.
4. If the screen has been stored in a wrinkled condition. The wrinkles may not fall out immediately. If wrinkles remain after an hour, call 512.832.6939 (opt.1) for further instructions.



Flatten the material at the weight bar

24v DC RTS - Running

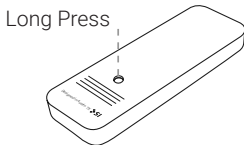
Solo/Pro 2 is very easy to operate. The RF remote, supplied with the screen, controls the deployment and retraction from up to 30 feet away. Enjoy!

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.

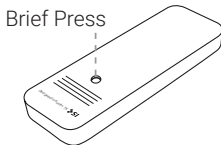
1. Connect the power supply - Solo/Pro 2 with an RTS motor is shipped with the remote already paired to the screen. Plug the power supply into the wall and plug the connectors together.
2. The screen is ready for operation.

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 Solo/Pro 2 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.



Original Remote



New Remote

*A brief press is about $\frac{1}{2}$ second long. Too short or too long of a button press may not perform the desired operation.

MOTOR COMMISIONING GUIDE REFERENCE

Motor Quick Commissioning Guide:

For use with 485/ RTS/ Zigbee motors, scan the QR code,
alternately use the link below to access <https://files.screeninnovations.com/Downloads/Programming+Guides/quick-motor-commisioning-guide.pdf>



CONTROL GUIDE REF

With your screen order, you shall receive one of the below mentioned Controls Guides which will walk you through integrating with control system.

Fontus Screen Control Guide (Dry Contact, 12v Trigger, IR):

Scan the QR code, alternately use this link to access

<https://files.screeninnovations.com/Downloads/Installation+Instructions/Connectivity/fontus-screen-control-installation-instructions.pdf>



TRO.Y Installation Instructions (RS232, IP Control, 3rd party Control system):
Scan the QR code, alternately use this link to access



<https://files.screeninnovations.com/Downloads/Installation+Instructions/Connectivity/troy-installation-instructions.pdf>

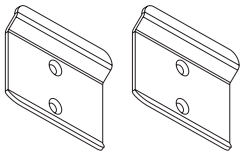
LinkPro Z Installation Instructions (IP Control, 3rd party Control system):
Scan the QR code, alternately use this link to access



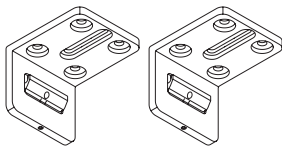
<https://files.screeninnovations.com/Downloads/Installation+Instructions/Connectivity/LinkProZ-installation-instructions.pdf>

MOUNTING ACCESSORIES

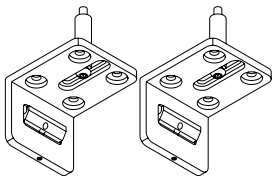
(purchased separately)



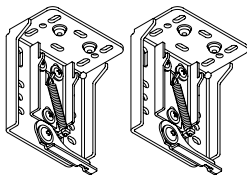
Zero Gap Wall Brackets



Décora Ceiling Brackets

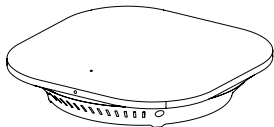


Décora Flying Brackets



Ceiling/Wall Locking
Brackets (incl. standard)

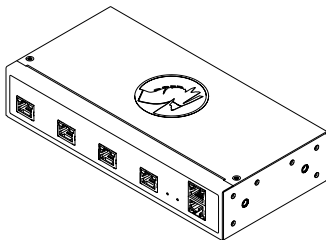
MOTOR ACCESSORIES - LV(24v) RTS (purchased separately)



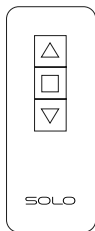
LinkProZ



Connect

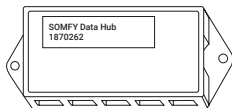


TRO.Y

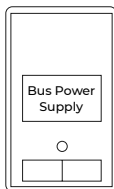


Solo remote

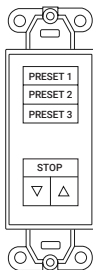
MOTOR ACCESSORIES - 24v DC 485 (purchased separately)



Data Hub



Bus Power Supply



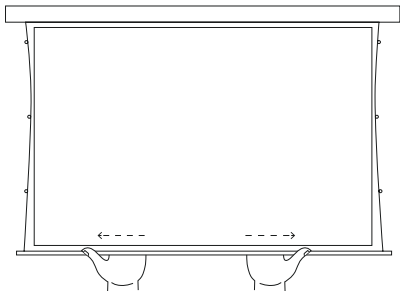
Decoflex Wall Switch

STORAGE AND TRANSPORT

Before storing or transporting Solo/Pro 2, make sure the screen is fully retracted. Disconnect the motor power supply and any control wiring to make sure the screen does not deploy. Failing to do so may damage the screen.

It is preferred to store or transport your Solo/Pro 2 horizontally. Shock and vibration experienced during transportation may shift the screen material and cause slight wrinkles. If this occurs, the wrinkles may be removed in most cassettes by manually redistributing the material with the following steps:


1. Bump the bottom of the weight bar up several times along it.
2. Use 2 fingers to pinch the material just above the middle of the weight bar and lightly pull on the material to smooth out any wrinkles at the weight bar.



3. Repeat the process to move the material from the center toward the other edge.
4. If the screen has been stored in a wrinkled condition. The wrinkles may not fall out immediately. If wrinkles remain after an hour, call 512.832.6939 (opt.1) for further instructions.

⚠ Storage temperature is important for the screen material. Store it between 0°C and 50°C.

CARE AND MAINTENANCE

 **DO NOT scrub the screen material. This will damage the viewing surface.**

These screens are designed and engineered to be virtually maintenance free. There are no user serviceable parts inside, except for the screen material. The screen needs to be kept clean - free of dust, dirt, hair, particles, and any other foreign material. Loose material will cause dimples in viewing and can be carefully brushed away with a microfiber cloth. Smudges and splotches from water soluble dirt may be removed with a damp microfiber cloth. Although the cassette is protective, it should not be handled roughly. Inadvertent small scratches, dents or dings may be unsightly, but they will not affect the operation of the screen. Wipe any smudges or handprints off with a damp cloth. Dry thoroughly after wiping.

TROUBLESHOOTING

Solo/Pro 2 is 100% programmed and tested at the factory. In case of a malfunction please use the troubleshooting guide table.

Symptom	Possible Cause	Solution
Screen won't run	No power to 24v DC supply	Check for power at your plug and/ check for breaker box.
Vertical wrinkles in screen	Material has shifted at the weight bar	Gently move the material out to each end of the weight bar until smooth.
When down button is pressed, screen stops halfway	An intermediate stop was set for the motor	Call SI Customer Support to fix at 512.832.6939, Opt. 1
Dimples in screen	Debris rolled up in screen material	Clean material per instructions on Pg 30.

Symptom	Possible Cause	Solution
For RTS	Remote too far away	Move to within 30 ft. of Solo
RTS won't operate	Remote orientation	Hold remote vertical
	RF interference	Turn off other sources of RF
	RF Shielding	Move to position where metal objects, wiring, or foliage does not block the signal.
	Remote battery is dead	Replace with CR2430 3V lithium button battery
	Antenna is not exposed.	Adjust the antenna location.

Symptom	Possible Cause	Solution
For 485	Incorrect or poor cable termination.	Check the wire pinouts and termination. Look for broken, loose, or damaged wires. Determine if necessary.
RS 485 won't operate	via IP Controller	Check that the green LED on IP Controller is flashing. If not, make sure power is available via the bus power supply or PoE (with expansion card only).
	IP Controller is not powered.	

Symptom	Possible Cause	Solution
RS 485 won't operate (cont.)	IP Controller is not on the local network.	Use the service keypad (if available) to validate the 485 network and motors are operating properly before troubleshooting SIFI network problems. Check that the IP Controller is communicating on the local network. Ping the device via the windows command prompt, or make sure the device shows up in the network tab of the Windows File Explorer.

WARRANTY

New SI products carry a standard 1- year warranty on parts and labor.


FCC INFORMATION

This device complies with Part 15 of the FCC Results.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including that which may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

 Solo/Pro 2, the Solo wordmark, and the Screen Innovations logo are registered trademarks and the exclusive property of Screen Innovations.



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