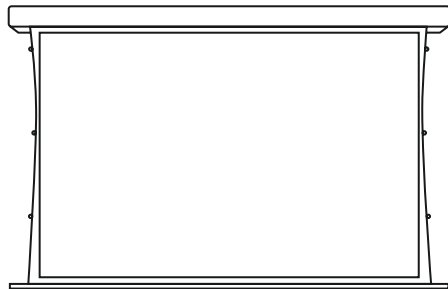




Screen Innovations
9715-B Burnet Rd, Suite 400 Austin, TX 78758
512.832.6939
www.screeninnovations.com

Solo Pro Installation Instructions



Low Voltage Motors



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

CONTENTS

Initial Consideration	Pg 1
Installation	Pg 2 - 9
24v RTS (RF)	
Parts in the Box.....	Pg 10
RTS - RF Control & Running	Pg 11
Programming	Pg 12 - 13
Pairing another RF Remote	Pg 14
24v Dry Contact	
Parts in the Box.....	Pg 16
Running	Pg 17
Programming	Pg 18 - 19
24v 485 2-way	
Parts in the Box.....	Pg 20
RS485 Low Voltage Motor - SIFI Control	Pg 21
Connections & Indicators for the Somfy Switch..	Pg 22
Start Up	Pg 23
Running & Programming	Pg 24 - 27
Storage and Transport	Pg 28 - 29

CONTENTS (cont.)

Care and Maintenance	Pg 30
Troubleshooting	Pg 32 - 33
Power Distance Chart	Pg 34 - 35
Additional Accessories	Pg 36 - 38
Warranty	Pg 39

INITIAL CONSIDERATIONS

Thank you for your purchase of Solo Pro. 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 and you can expect years of quality use.

INSTALLATION

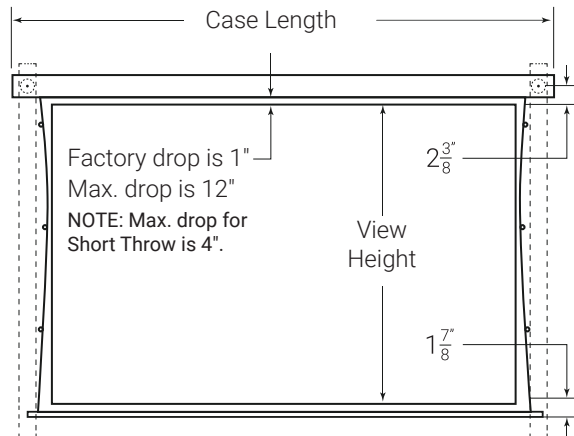
Proper mounting preparation will ensure a great installation. Mounting brackets must be level to each other, and screwed into structural members of some kind, such as wall studs. You may use wood screws provided, or other anchors (not provided) capable of carrying the load, that is suitable to the substrate.

⚠ DO NOT MOUNT TO ONLY SHEET ROCK.

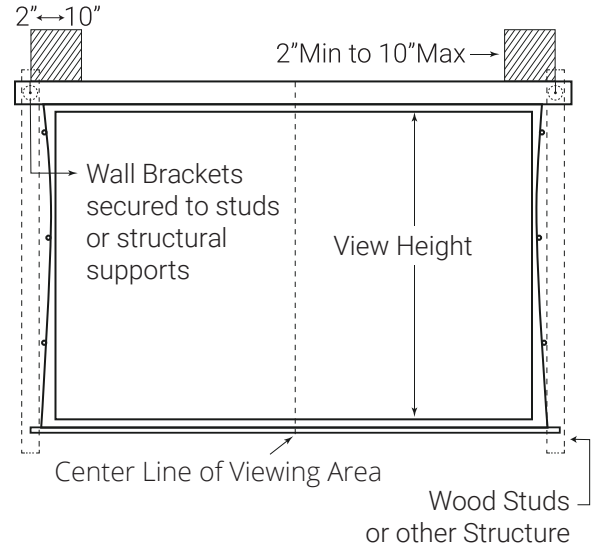
Install the Quick Release Brackets

1. Determine the top of the desired viewing area on the wall.
2. The mounting brackets should be located $1\frac{3}{8}" + \text{Drop}$ + the desired top of viewing height. The factory set drop is 1", but may be programmed to be up to 12".
Ex: 10" Drop + $1\frac{3}{8}" + 82"$ viewing area above floor = $93\frac{3}{8}"$ bracket screw height.

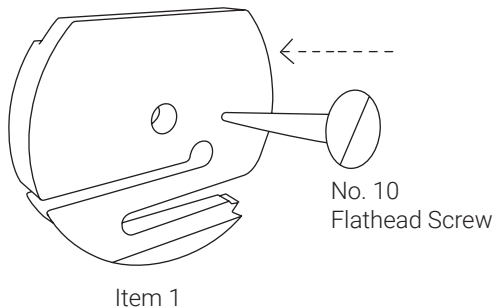
NOTE : Maximum drop for Short Throw material is 4".



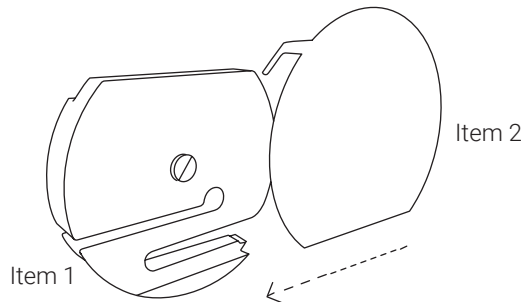
4. Determine the desired viewing area with vertical centerline of the projected viewing area.
5. The Solo Pro screen must be installed with the brackets no more than 10 inches from each end of the cassette. Measure the overall length of the cassette to determine the min. and max. horizontal spacing of the mounts. Mark the location of the quick mount brackets over a stud and within an appropriate distance from the ends. If the location of the studs does not let the screen center match the projector center, another board or plate will have to be installed on the wall to take the mount fasteners.
6. Remove the snap-on cover (Item 2) from one of the supplied quick mounts.



7. Securely screw Item 1 to the wall at one of the marked locations in an orientation with the dimpled lip is down using the supplied fastener.



8. Slide Item 2 over Item 1. Continue to slide together until it snaps in place.

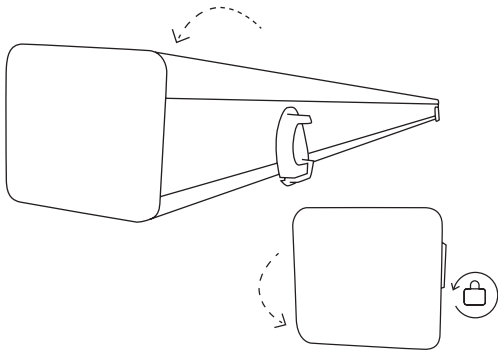


9. Repeat quick mount installation for the second mount. Place a level on the tops of the both quick mounts to verify that they are indeed level before installation. Correct if necessary and securely install the second bracket.

10. Install the Solo:

- Tilt it slightly up
- Hang on the top lip of the mounting brackets
- Adjust the unit side to side to center on the viewing area
- Click in place (*both brackets must click).

Solo is installed.

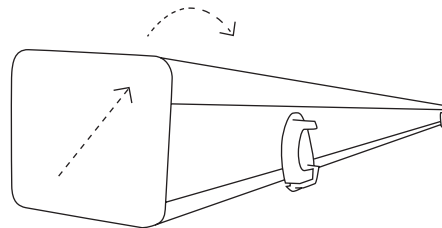


Installation

8

To uninstall the Solo:

- Unsnap it by rotating it up and out from the bottom until both brackets click
- Lift the Solo off of the brackets

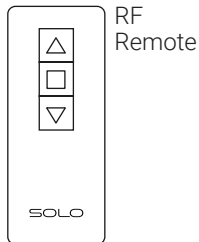
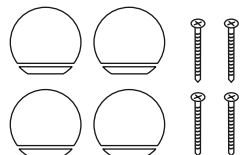
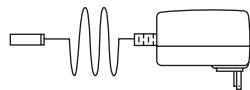
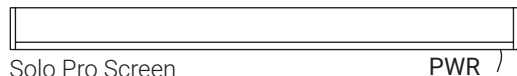


Installation

9

24v RTS (RF)

Parts in the box



RTS - RF CONTROL

1. Connect the power supply - Solo Pro 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.

RUNNING

Solo Pro is very easy to operate. The RF remote, supplied with the screen, controls the opening and closing from up to 40 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.

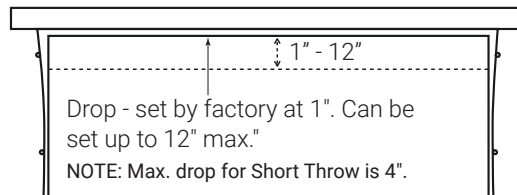
PROGRAMMING

Setting the Drop - Solo Pro is factory preset to have 1" of drop, the distance between the top of the viewing area and the cassette. The drop can be changed to be up to 12" (4" for Short Throw) to adjust the viewing area vertically for image placement. To adjust the drop, do the following:

1. Press the down button on the RF remote to send the screen to its lower limit.
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 12" (4" for Short Throw) from the bottom of the cassette.

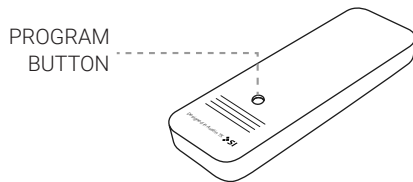
⚠ DO NOT set the lower limit (top of viewing) more than 12" (4" for Short Throw) from the cassette.
Doing so risks damaging the screen material.

4. Once the viewing area is positioned, hold the 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 it is no longer in program mode, and the motor will only recall the previous lower limit. No changes will be saved.



PAIRING ANOTHER RF REMOTE

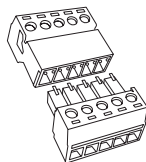
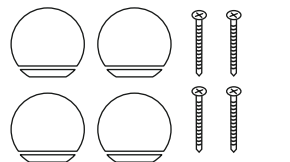
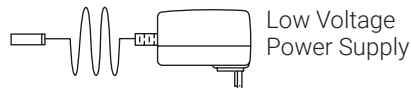
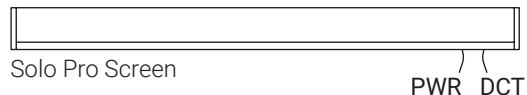
If another remote was purchased, it will not come paired to your screen motor. To pair it, first take the working remote supplied with the Solo Pro and press the Program button on the back of the remote until the screen jogs once. Holding the new remote, briefly press* the Program button on the back.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

24v Dry Contact

Parts in the box



The supplied control cable is used with dry contacts (by others) from a relay or other controls to operate the powered screen. There is no sleep mode for this low voltage motor. Connect the power plug and connector together to power the motor. Since the screen is controlled by dry contact controls, there is no RF or IR remote with your screen.

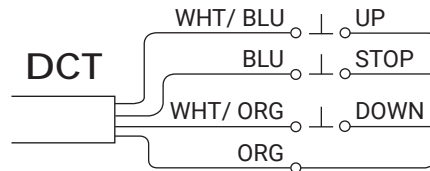
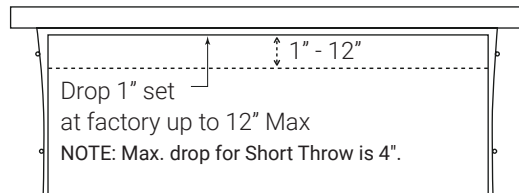
RUNNING

Solo Pro with a DCT motor is very easy to operate. The upper and lower screen limits are preset from the factory. The controls (by others) run the screen up and down to each limit using the DCT cable supplied with the screen. The screen cannot be powered solely by the DCT cable. Make sure that the low voltage power supply is also connected.

PROGRAMMING

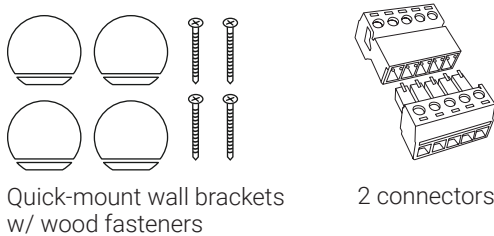
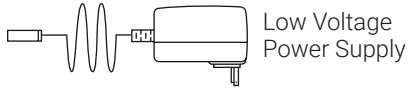
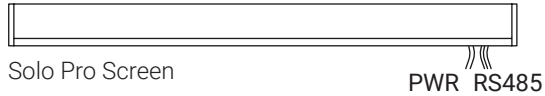
Setting the Drop - Solo Pros are factory preset to have 1" of drop, the distance between the top of the viewing area and the cassette. The drop can be changed to be up to 12"(4" for Short Throw) to adjust the viewing area vertically for image placement. NOTE: To change any motor settings, a Somfy Sonesse 30 DCT Limit Setting Tool (Part # 9014599, sold separately by Somfy) is required. To adjust the drop, see the instructions with the DCT Limit Setting Tool.

⚠ DO NOT set the lower limit (top of viewing) more than 12" (4" for Short Throw) from the cassette.
Doing so risks damaging the screen material.



24v 485 2-way

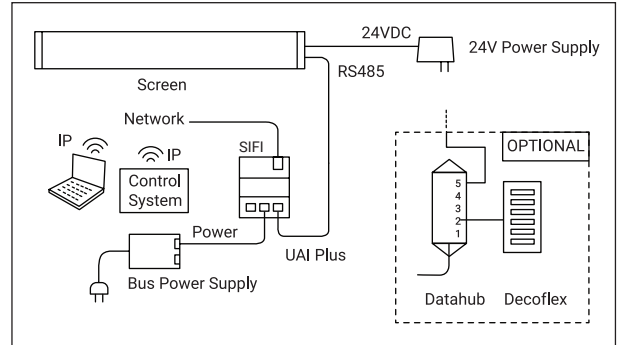
Parts in the box



RS485 LV Motor / Parts in the box

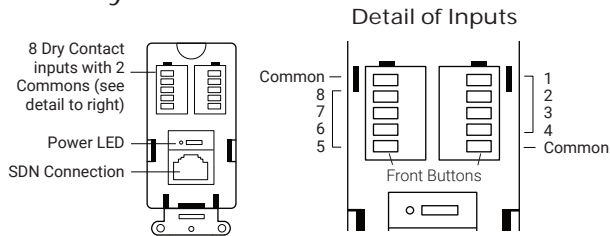
24v 485 2-way Low Voltage Motor - SIFI Control

RS485 commands are used to control the screen motor via the local SDN bus or by IP. The motor also gives the feedback to an installed app. for monitoring the screen status. Refer to the image below of a typical system.

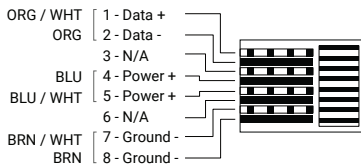


RS485 LV Motor - SIFI Control

Connections And Indicators for the Somfy DecoFlex Switch



SDN Connection Cable Pinouts



The supplied control cable is used with controls (by others) to operate the powered screen. Connect the power plug and connector together to power the motor. Since the screen is controlled with hardwired digital commands, there is no RF or IR remote with your screen.

START - UP

The screen must have 24VDC power to operate. The control wiring cannot power the motor. Connect the in-line power plug and connector together to supply motor power. Verify the control wiring.

See SIFI Programming Guide for SIFI setup.

RUNNING

Solo Pro with an RS485 motor is very easy to operate. The upper and lower screen limits are preset from the factory. The controls (optional or by others) run the screen up and down to each limit using the RS485 cable supplied with the screen. The screen cannot be powered solely by the RS485 cable. Make sure that the low voltage power supply is also connected.

PROGRAMMING

Setting the Drop:

To adjust the viewing area vertically for image placement other than that preset at the factory, the drop can be changed to be up to 12" (4" for Short Throw).

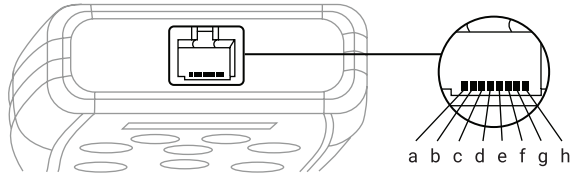
NOTE: Changes to factory settings require a special RS485 Setting Tool available from Screen Innovations and ordered separately. This is a point-to-point tool and

not a network tool. The tool may be used up to 100 ft. away when used with 18GA. copper control wire.

To adjust the drop, do the following:

1. Connect the 24VDC power supply to the screen.
2. Disconnect the RS485 cable from the system.
3. If the RS485 cable does not have an RJ45 plug connected to it, crimp an RJ45 plug onto the RS485 communication cable or use a terminal block to RJ45 adapter.
 - a. RED to 'h'
 - b. BLK to 'g'
 - c. GRN to 'a' or 'b'

RS485 Setting Tool



a. Ground	e. Not Used
b. Ground	f. Not Used
c. Not used	g. RS485-
d. Not Used	h. RS485+

4. Plug the RJ45 into the setting tool.
5. Turn the setting tool on by pressing the ON/OFF button.
6. Use the UP and DOWN buttons to point to "Somfy RS485 Node Discovery".

7. Press OK to enter the selection.
 8. Once the node ID appears on the screen, press OK again.
 9. Use the directional buttons to navigate to "Down Limit Setting" and press OK to enable setting the drop.
 10. Use the UP and DOWN arrows to adjust the screen drop to the desired amount, up to 12" to the bottom of the cassette.
- ⚠ DO NOT set the drop more than 12"(4" for Short Throw) from the cassette. Doing so can damage the screen material.**
11. Once the viewing area is positioned and the drop is correct, press the OK button to save the new lower limit and drop.
 12. Turn the setting tool off.
 13. Disconnect the RS485 cable from the Setting Tool.
 14. Reconnect the RS485 cable to the control system.

STORAGE AND TRANSPORT

Before storing or transporting, make sure the screen is fully rolled up. Disconnect the motor power supply and any control wiring to make sure the screen does not deploy and get damaged accidentally.

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

1. With the screen lowered completely, look at the back of the weight bar. If you see set screws, loosen all of them 1 turn. If there are no set screws, skip this step.
2. Bump the bottom of the weight bar up several times along it.

3. With one hand grab over the center of the weight bar and hold the material at the bottom of the screen.
4. With the other hand lightly grab the screen material around the weight bar and gently slide your grip toward the edge of the screen to redistribute the material.
5. Repeat the process to move the material from the center toward the other edge.
6. The wrinkles may not fall out immediately if the screen has been stored in a wrinkled condition. If you have wrinkles remain after an hour, then call us for further instructions.
7. If the wrinkles are gone, snug up the weight bar set screws finger-tight (approx. 1 in-lb.).

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

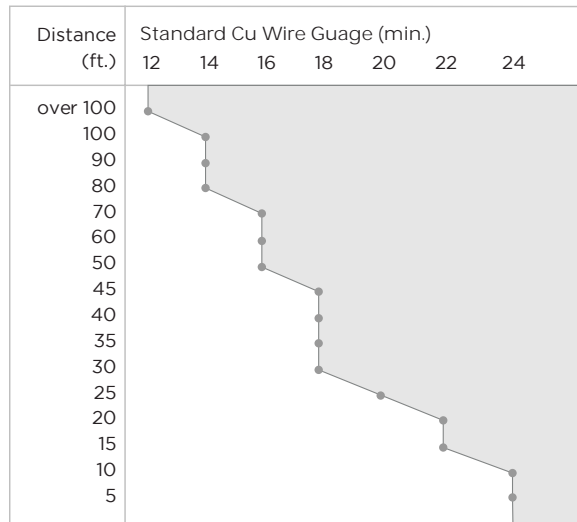
Symptom	Possible Cause	Solution
Non-responsive remote	Motor is asleep	Plug the charger and connect cable
	Too far away	Move to within 40 ft. of Solo
	Remote orientation	Hold remote vertical
	RF interference	Turn off other sources of RF
	RF Shielding	Move to position where metal objects, wiring, or foliage does not block the signal.

Symptom	Possible Cause	Solution
Non-responsive remote (contd.)	Remote battery is dead	Replace with CR2430 3V lithium button battery
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
Dimples in screen	Debris rolled up in screen material	Clean material per instructions on Pg 31.

LOW VOLTAGE MOTOR

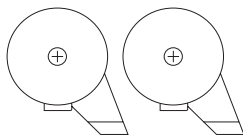
Power Wire Distance Chart

Use the chart (on the right page) to determine the connecting wire gauge to connect the power supply to the low voltage motor. The total length of wire supplied with a stock low voltage Solo is 12 ft.

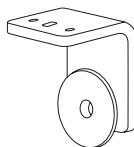


ADDITIONAL ACCESSORIES

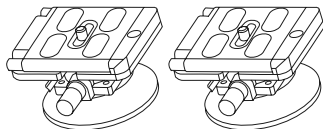
(purchased separately)



Universal locking brackets



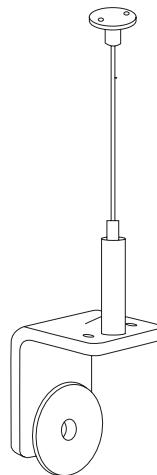
Ceiling bracket



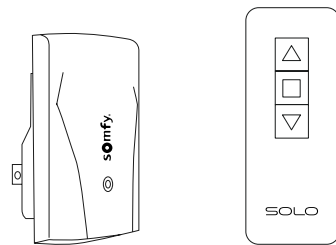
Suction cup brackets



Connect



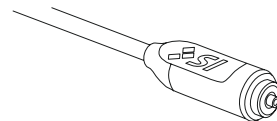
Flying kit



MyLink

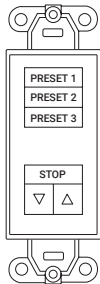
Solo remote

└─ RTS Motor only ─┐

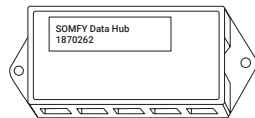


Charging cable (RTS Lithium Ion
Battery Motor only)

RS485 motor - SIFI Control - Optional Accessories



Decoflex Wall Switch



Data Hub

WARRANTY

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

FCC WARNING: This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference,
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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