# Sivoia, QS Wireless Cellular Shade

Motorized shade with wireless radio frequency (RF) control Installation Guide (please read before installing)

# **Step 1: Review included components:**

Before you begin, open the box and make sure you have all the necessary parts: the shade, mounting brackets, and screws.

You will also need a cordless drill, a 3/32 inch drill bit, a #2 Phillips bit, a pencil, a tape measure, and 4 or 6 "D" alkaline batteries (depending on the shade's size) if you purchased a battery-powered shade.

**Batteries:** 

4D -+--

6D -+--+



**Other Power Options:** d+-d+-**X**0 d+ - d+ - d+ - ) Plug-in power supply

# **Step 2: Installing Mounting Brackets**

Your shade was manufactured according to the mounting option you chose when ordering your shade. Make sure you follow the appropriate mounting instructions: Opt. 1 inside mount, Opt. 2 outside mount on trim, or Opt. 3 outside mount above trim.

**Option 1: Inside Mount: Installing Mounting Brackets** 

Hold the shade up to the window to make sure it's the correct size.



Power pane

- 1.2 Use a pencil to mark where you will need to install the mounting brackets. If you're installing an inside mount shade, align the brackets with the front edge of the window trim, 2 inches in from each side of the window.
  - \*NOTE: Shades wider than 45 inches (vinyl headrail) or 48 inches (aluminum headrail) will need a third bracket (3). Install this bracket 2 inches to the left of the drive (the box in the middle of the headrail).

If the shade is wider than 72 inches, you will need to install a third (3) and a fourth bracket (4). Install each of these one-third of the way in from the outer brackets.





Top view of shade wider than 45 inches or 48 inches



Top view of shade wider than 72 inches

Using the brackets as a guide, mark for the screws.

Install the mounting brackets,

using the provided screws. Place

of the window frame and, using

through the holes in the top of

the bracket.

Important:

into place.

each bracket flush against the front

the cordless drill, drive each screw

Make sure the brackets are aligned with each other.

(If not, the shade may not operate properly.)

1.5 For the best RF range, reposition the

holder from the headrail

antenna holder. Unsnap the antenna

Move it out to the operating position

behind the headrail, and snap it

1.4



 $\leftrightarrow$ 

MM

Side view

Side view



Side view

Top view

Top view

(vinyl headrail) or 48 inches (aluminum headrail) will need a third bracket (3). Install this bracket 2 inches to the left of the drive (the box in the middle of the headrail).

If the shade is wider than 72 inches, you will need to install a third (3) and a fourth bracket (4). Install each of these one-third of the way in from the outer brackets.

2.3 Align the top of the brackets with the top of the trim. Using the brackets as a guide, mark hole locations and then pre-drill holes for the screws.

Install the shade in the brackets. 1.6 Holding the shade in both hands, tilt the top of the shade slightly away from you and hook the front edge into the brackets behind the battery release tabs. Then gently

tilt the shade down and press the bottom of the headrail until you hear it click into place.

## Important:

Be sure not to catch any fabric cells in the brackets.



Antenna holder as shipped

Antenna holder repositioned

Side view



1

2.5 Refer to steps 1.5 and 1.6 to extend the antenna holder and install the shade in the brackets.

# Important:

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#6 Phillips

screws

hole locations and then pre-drill holes





\*NOTE: Shades wider than 45 inches

# **Option 2: Outside Mount On Trim: Install Mounting Brackets**

2.1 Hold the shade up to the window to make sure it's the correct size. Center the shade and use a pencil to mark the trim at each end of the shade.



2.2 Then use a pencil to mark where you'll need to install the mounting brackets, 2 inches in from the marks you made in step 2.1.

2.4 Install the mounting brackets using the provided screws. Place each bracket flush against the trim (using spacers behind brackets if needed) and using the cordless drill, drive each screw through the holes in the bracket.



Top view of shade wider than 45 inches or 48 inches



Top view of shade wider than 72 inches





(not included)

\*NOTE: If window trim is angled, or not level vertically, place an angled spacer (not included) behind each bracket. Ensure that the shade is level before placing the bracket flush against the trim. Pre-drill a hole through the spacer as well.

Make sure the brackets are aligned with each other. (If not, the shade may not operate properly.)

### **Option 3: Outside Mount Above Trim: Installing Mounting Brackets**

2 in

or 48 inches

- 3.1 Hold the shade up to the window to make sure it's the correct size. Center the shade and use a pencil to mark the trim at each end of the shade.

2 in ₩

Drive

2 in

Top view of shade wider than 45 inches

Top view of shade wider than 72 inches

2

# Important:

- Make sure you are screwing into wood studs.
- If you're not mounting the brackets into wood studs, you'll need to use appropriate fasteners for the mounting surface (not included).
- · Make sure the brackets are aligned with each other. (If not, the shade may not operate properly.)

3.6 Refer to steps 1.5 and 1.6 to extend the antenna holder and install the shade in the brackets.

# **Step 3A: Installing and Replacing Batteries**

If you have a battery-powered shade, installing and replacing the batteries is a snap. Sivoia₀ QS Wireless cellular shades use Triathlon™ power technology to achieve a typical battery life of 3 years.\* Lutron recommends only alkaline batteries.

Press the battery release tabs (PUSH) above the headrail. The shade will tilt forward, exposing the battery trays.



Install the batteries as indicated in the battery trays (so the + / - signs |- +þ|- +þ match). Make sure the batteries are 4D example shown



For best battery life, don't mix old and new batteries, use only D-size alkaline batteries, and don't mix battery types or use carbon-zinc batteries. Also, don't use rechargeable batteries.

EE PUSH

Once all the batteries are in place, the LED indicator light will flash briefly.

fully inserted in the trays.





Remove all of the batteries from each side of the tray, beginning with the battery that's closest to the middle of the headrail. After you have taken that battery out, slide the next battery over and remove it. Now you can insert the new batteries, following steps 1 and 2 above.

\* 3-year battery life based on 2 up and 2 down movements per day assuming a 3 ft. wide by 5 ft. tall shade using light-filtering fabric. Battery life can vary between 2 to 5 years depending on shade size and fabric selection.

If you have a shade that uses the plug-in power supply, attaching the power supply is simple.

will tilt forward, exposing the power cable.

plug-in power supply.

- PUSH

# **Step 4: Programming**

- to program it.
- programming details.

If you don't have RadioRA 2 design and programming software, refer to the RadioRA 2 setup guide for instructions. The guide is available at www.lutron.com/radiora2.

- need to install the mounting brackets, 2 inches in from the marks you made in step 3.1. \*NOTE: Shades wider than 45 inches (vinyl headrail) or 48 inches (aluminum
- headrail) will need a third bracket (3). Install this bracket 2 inches to the left of the drive (the box in the middle of the headrail).

Use a pencil to mark where you will

3.2

If the shade is wider than 72 inches, you will need to install a third (3) and a fourth bracket (4). Install each of these one-third of the way in from the outer brackets.

- 3.3 After using your marks to place the brackets against the wall, align the top of the brackets with each other and mark their location, making sure they are level.
- 34 Using the brackets as a guide, mark hole locations and then pre-drill holes for the screws. Place a spacer behind each bracket (to ensure that the shade clears the window trim).
- Then place the bracket flush against the spacer and the wall, aligning the holes. Drive a screw through the holes in the bracket and through the spacer.







# Step 3B: Attaching Power Supply



Once you've installed your Sivoia QS Wireless cellular shade, you will need

 If you are using your shade in a standalone system, you will need to assign your control so that it works with the shade. Refer to the following page for

 If you are working with a RadioRA<sub>®</sub> 2 system, use the RadioRA 2 Essentials or Inclusive software to set up your shade.

• If you are working with a HomeWorks® QS system, use the HomeWorks QS design and programming software to set up your shade.

Programming Your Shade - Standalone Applications (see previous page for system programming information)							
Desired action	1. Put the shade into programming mode	2. Put the co	ntrol into programming mode	3. Adjust settings	4. Save settings	5. Return the control to normal operation	End Result
<b>1. Assign a control</b> <b>to the shade</b> (Must be done before the shade will work)	Tap the shade button on all shades you want assigned Shade button illuminates green (Continue to programming in 30 seconds or less to avoid timeout)	Pico® wireless control seeTouch® keypad GRAFIK Eye®	Hold "Close" button for about 5 seconds, until the shade button blinks and turns off. Hold "Close" button for about 5 seconds, until the shade button blinks and turns off. • Close				You have assigned the control to the shade. Note: Repeat to assign more controls.
Note: Allow 24 hours	for shade fabric to relax before adju	isting limits. Low	er and upper limits are pre-programmed based on you	r window dimensions, but may need fine-tuning.			
2. Set the shade's lower limit	Tap the shade button on the shade you want to set the lower limit on.	Pico wireless control	Hold "Open" and "Raise" buttons for about 5 seconds, until the shade button blinks and remains lit.	Use the control's "Raise" and "Lower" buttons to adjust shade position to the lower limit you prefer.	Hold "Close" button for about 5 seconds, until the shade button blinks and turns off.	Note: This step is only necessary for a Pico with an LED. Hold "Open" and "Raise" until the LED on the Pico turns off.	You have set the shade's lower limit.
	(Continue to programming in 30 seconds or less to avoid timeout)	see louch keypad GRAFIK Eye	Hold "Open" and "Raise" buttons for about 5 seconds, until the shade button blinks and remains lit. Open +	Use the control's "Raise" and "Lower" buttons to adjust shade position to the lower limit you prefer.	Hold "Close" button for about 5 seconds, until the shade button blinks and turns off.		
3. Set the shade's upper limit (optional)	Tap the shade button on the shade you want to set the upper limit on.	Pico wireless control	Hold "Open" and "Raise" buttons for about 5 seconds, until the shade button blinks and remains lit.	Use the control's "Raise" and "Lower" buttons to adjust shade position to the upper limit you prefer.	Hold "Open" button for about 5 seconds, until the shade button blinks and turns off.	Note: This step is only necessary for a Pico with an LED. Hold "Open" and "Raise" until the LED on the Pico turns off.	You have set the shade's upper limit.
		GRAFIK Eye	Hold "Open" and "Raise" buttons for about 5 seconds until the shade button blinks and remains lit. Open +	Use the control's "Haise" and "Lower" buttons to adjust shade position to the upper limit you prefer.	Hold "Open" button for about 5 seconds, until the shade button blinks and turns off.		
4a. Set a favorite shade level (preset) for one shade assigned to the control, or multiple shades assigned to the control at the same level		Pico wireless control		Use the control's "Raise" and "Lower" buttons to adjust shade position to the level you prefer.	Hold "Favorite" button for about 5 seconds.		You have set a favorite preset level.
		seeTouch keypad GRAFIK Eye		Use the control's "Raise" and "Lower" buttons to adjust shade position to the level you prefer.	Hold the "Preset" button for about 5 seconds. • Preset		
4b. Set a favorite shade level (preset) for multiple shades assigned to the control at different levels		Pico wireless control		Use the control's "Raise" and "Lower" buttons to adjust the 1st shade's position to the level you prefer. Then disconnect the shade's power by either removing a battery or unplugging the power supply. Repeat for additional shades.	Once shades are at preferred level, restore power to all shades, then hold "Favorite" button for about 5 seconds.		You have set a favorite preset level.
		seeTouch keypad GRAFIK Eye		Use the control's "Raise" and "Lower" buttons to adjust the 1st shade's position to the level you prefer. Then disconnect the shade's power by either removing a battery or unplugging the power supply. Repeat for additional shades.	Once shades are at preferred level, restore power to all shades, then hold "Preset" button for about 5 seconds.		

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If you have any questions regarding programming your cellular shades please call Lutron tech support at 1.800.523-9466. Our team is available to help you 24 hours a day, 7 days a week.

# **Removing the Shade From the Brackets**

To completely remove the shade from its brackets, first locate the metal tab on each bracket. The tab is located where the shade fabric meets the headrail on the side closest to the window.



Troubleshooting

- Insert a small flathead screwdriver through the hole in the metal tab so the tip of the screwdriver is between the headrail and tab.
- Pull the screwdriver toward you until the tab releases the headrail. Repeat for each bracket on the shade.

Once you have released all tabs, you can lift the shade off the brackets.

# **Cleaning the Fabric**

To keep your cellular shades looking their best, regularly brush them with a feather duster or lightly vacuum them with a brush-type attachment.



Vaccum cleaner with brush attachment

Feather duster

SAN A

2 If your shades get a spot of dirt or a stain on them, use a clean, soft cloth and a solution of mild detergent and warm water (1 part detergent to 3 parts water) to blot or lightly rub the spot or stain.

#### Important:

Be extra careful if you're cleaning a blackout fabric because you could permanently crease the fabric.

Also, **do not** use strong detergents or spot removers, and **do not** have your shades professionally dry cleaned.



Soft cloth

symptom	Solution	
Shade doesn't	<b>Battery powered shade:</b> 1) Ensure batteries are installed correctly. 2) Ensure batteries are fresh.	
ower up	<ul><li>Wired shade:</li><li>1) Ensure the wires are properly connected to the drive.</li><li>2) Ensure the wires are properly connected to plug-in supply or panel.</li></ul>	
imited RF range	Ensure antenna bracket was moved into installation position	
	Check the shade LED for feedback when a command is sent to the shade. If the LED blinks, contact tech support at 1.800.523.9466 to resolve the movement issue. If the LED does not give any feedback:	
	<ol> <li>Ensure the drive is powered by pressing the button on the shade to verify it lights up green.</li> </ol>	
shade powers up, but is not moving	2) For standalone shades, repeat assignment steps located in Step 4: Programming	
	3) For a shade activated into a RadioRA® 2 or HomeWorks® QS system, ensure the shade and control are activated into the system. You can check the shade by pressing and releasing the shade button. The LED in system addressed shades will light when you press the button and will turn off when you release it. The LED in non-system activated shades will remain lit for 30 seconds after you release it.	
Shade won't activate into a main epeater system	Ensure shade is in activation mode. (Wait one minute after sending GUI command to enter activation mode and check LED feedback. LED will blink 1 second on, 4 seconds off for inactivated shades in activation mode and 4 seconds on, 1 second off for activated shades in activation mode.)	
	Ensure shade is not assigned to a direct control (remove by factory defaulting).	
Cannot assign a control directly to he shade	Ensure shade is not activated into a RadioRA 2 or HomeWorks QS system. (Check LED feedback. The LED in system addressed shades will light when you presss the button and will turn off when you release it.)	
	Ensure control is working properly.	
Shado ion't loval	Leave shade in closed position to allow fabric to relax. Time required to relax may vary (up to 24 hours).	
made ISN't IEVEI	Contact tech support at 1.800.523.9466 for instructions to walk through leveling process.	



(continued)

Symptom is mov with r

fabric ot reacl wsill

Button attern

blink 5 seco

ED on is mo ff

ED is c ds, the omma

ep will remove any controls assigned to the shade as well as any programming. It will not affect the shade's upper and lower limits.

shade button quickly three times, ld the shade button until the button reen rapidly.

ately tap the shade button quickly ore times, until the shade button reen rapidly, then blinks red/green nes, and turns off.

litional troubleshooting help, visit www.lutron.com, under "Service and t," "Application Notes," "Sivoia QS Wireless," to view "Blink Codes for S Wireless Cellular Shades."

ave any questions regarding your cellular shades please call Lutron tech at 1.800.523.9466. Our technical support staff are available 24 hours a day, 7 days a week.

	Solution
ving œd	Indicates that batteries are low and need to be replaced.
;	Check lower limit setting. If adjusting lower limit does not fix the issue, then allow fabric to relax.
h	Leave shade in closed position to allow fabric to relax. Time required to relax may vary (up to 24 hours).

# **Battery Indicator**

	Description
onds	The shade cannot move. Batteries need to be replaced.
while ving,	Shade has only a few motions left. Batteries need to be replaced.
on for 5 en off, ind	Shade "heard" the button press, but cannot move. Batteries need to be replaced.

# oring the Shade's Factory Settings



#### WARBANTY SCOPE

This limited warranty ("Warranty") covers the Lutron® supplied (a) SerenaTM Shades, (b) Sivoia® Shade Systems ("Sivoia Shade Systems"), (c) manual shade system and (d) alternating current or a/c shade system (each of the foregoing being a "System"). Customer acknowledges and agrees that use of the System constitutes acceptance of all terms and conditions of this Warranty.

#### LIMITED WARRANTY

Subject to the exclusions and restrictions described below, Lutron warrants that each System will be free from manufacturing defects from the date of shipment by Lutron for a period of (a) one year as to the wall controls, interfaces and system accessories of the Shade System ("External Components") and (b) eight years as to the other Systems and the electronic drive unit, shade fabric and shade hardware of the Shade System. If any manufacturing defect exists in the External Components, so long as Customer promptly notifies Lutron of the defect within the one year warranty period and, if requested by Lutron, returns the defective part(s), Lutron will, at its option, either repair the defective part(s) or provide comparable replacement part(s). If any manufacturing defect exists in any of the components of a System other than the External Components, so long as Customer promptly notifies Lutron of the defect within the eight year warranty period and, if requested by Lutron, returns the defective part(s), Lutron will, at its option, either repair the defective part(s) or issue a credit to the Customer against the purchase price of comparable replacement part(s) purchased from Lutron as provided below:

Number of years from date of shipment	Percentage of cost of replacement parts credited by Lutron
Up to 5	100%
More than 5 but not more than 8	50%
More than 8	0%

Beplacement parts for the System provided by Lutron or, at its sole discretion, an approved vendor may be new, used. repaired, reconditioned, and/or made by a different manufacturer.

#### EXCLUSIONS AND RESTRICTIONS

This Warranty will be void, and Lutron and its suppliers will have no responsibility under this Warranty, if Lutron or its representatives cannot access any components of the System to inspect, diagnose problems with or repair the System or any of its components as a result of concealment or inaccessibility of such components within a building structure.

This Warranty does not cover, and Lutron and its suppliers are not responsible for:

- 1. Damage, malfunction or inoperability diagnosed by Lutron or a Lutron approved third party as caused by normal wear and tear, abuse, misuse, incorrect installation, neglect, accident, interference or environmental factors, such as (a) use of incorrect line voltages fuses or circuit breakers; (b) failure to install, maintain and operate the System pursuant to the operating instructions provided by Lutron and the applicable provisions of the National Electrical Code and of the Safety Standards of Underwriter's Laboratories; (c) use of incompatible devices or accessories; (d) improper or insufficient ventilation; (e) unauthorized repairs or adjustments or alterations; (f) vandalism; (g) an act of God, such as fire, lightning, flooding, tornado, earthquake, hurricane or other problems beyond Lutron's control; or (h) direct exposure to corrosive materials
- 2. On-site labor costs to diagnose issues with, and remove, repair, replace, adjust, reinstall and/or reprogram the System or any of its components.
- 3. Components and equipment external to the System, such as, non-Lutron lighting and automation systems; building wiring audio-visual equipment; and non-Lutron time clocks, photosensors and motion detectors.
- 4. The cost of repairing or replacing other property that is damaged when any System does not work properly, even if the damage was caused by the System.

THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO EIGHT YEARS FROM THE DATE OF SHIPMENT, EXCEPT THAT SUCH IMPLIED WARRANTIES ARE LIMITED TO ONE YEAR FROM THE DATE OF SHIPMENT AS TO THE EXTERNAL COMPONENTS.

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THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS. OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

#### WARRANTY CLAIMS, TECHNICAL ASSISTANCE AND WARRANTY INFORMATION

Contact the Lutron Technical Support Center at the numbers provided below or your local Lutron sales representative with questions concerning the installation or operation of the System or this Warranty, or to make a warranty claim. Please provide the exact model number when calling.

USA and Canada (24 hrs/7days) (800) 523-9466 Other countries (8 a.m. - 8 p.m. ET) (610) 282-3800 Fax (610) 282-3090 http://www.lutron.com

### FCC Information

#### Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception, which can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

#### Note:

Changes or modifications not expressly approved by Lutron Electronics Co. could void the user's authority to operate this equipment.

\* 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 and
- (2) This device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003.

#### **IC Information**

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

#### Lutron Technical Support

when calling.

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Contact Lutron Technical Support at the numbers provided below or your local Lutron sales representative with questions concerning the installation or operation of the System or this Warranty, or to make a warranty claim. Please provide the exact model number

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