

Sivoia QED Technical Reference Guide

rev. D

%LUTRON

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Sivoia QED_™ | system design benefits

Sivoia QED (Quiet Electronic Drive), a low-voltage shading system, utilizes a nearly silent electronic drive unit. The control options for Sivoia QED include various styles of intuitive wallmounted keypads and handheld remote controls to suit any need.

Simple System Design: Sivoia QED shades or draperies can be grouped together without the use of external "group controls".

Ultra Quiet Operation: Shades move in near silence. They are sound-rated at 44 dBA at 3 feet.

Maximize Window Coverage: Sivoia QED provides the smallest possible light gaps, 3/4 inch, between the shade fabric and the window frame.

Precise Movement: Shades move smoothly, in perfect unison, and with exact alignment.

New or existing spaces: Sivoia QED can be easily installed in any new construction or retrofit application.

Intuitive Control Design: Easy-to-Read and Easy-to-Use controls are immediately understood.

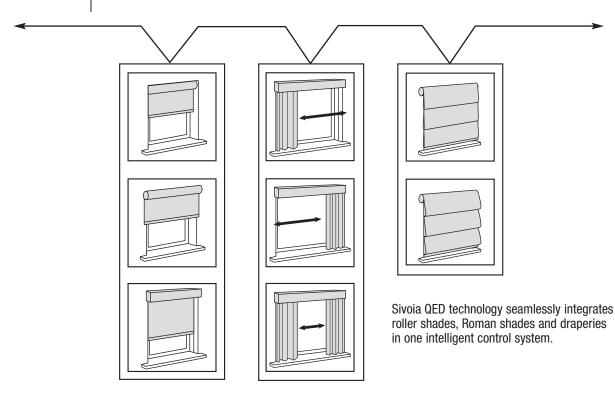
Convenience: Simplify your life by touching one button to open or close multiple, tall, and hard-to-reach shades.

Programmable Stop Points: The Sivoia QED electronic drive unit (EDU) optimizes shade and drapery adjustment by offering programmable stop points. This means the drive unit will track the position of the shade or drapery and be able to adjust it to predetermined locations at the touch of a button.

Reliability: Lutron Electronics has been the world leader in the lighting control industry and the designer's choice for over 40 years.

Sivoia QED™

one system does it all



Notes	
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b

1 roller shade electrical components

1

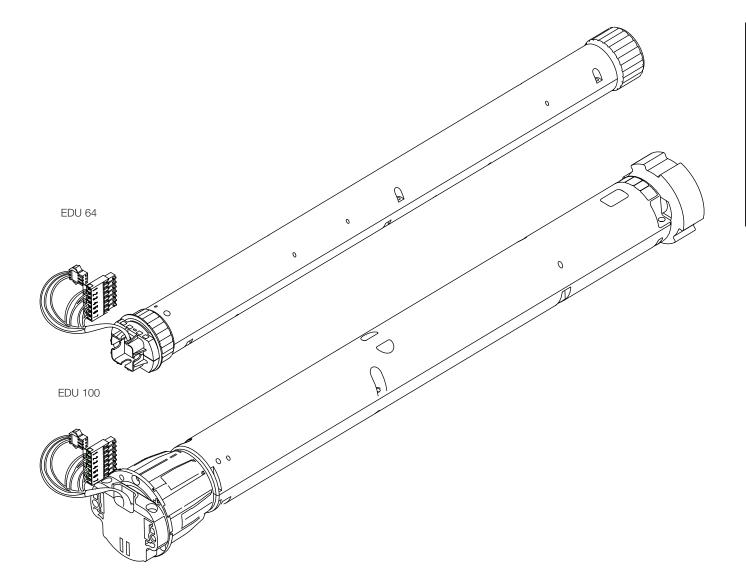
Notes

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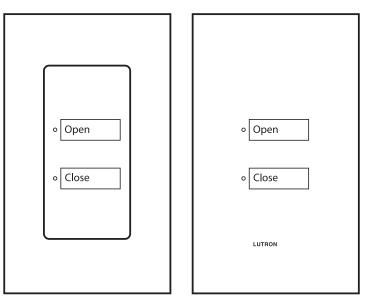
electrical electronic drive unit

- Ultra-Quiet operation: will not exceed 44dBA measured 3 feet from the EDU.
- Smooth, silent starts and stops.
- Integrates with Lutron Lighting control systems and other a/v equipment.
- Integrates with most outside systems such as home security or time clocks, without the use of external group controls or relay systems.
- Provides ten year power failure memory.
- Monitors shade position at all times.
- 24 VAC low-voltage power allows Sivoia QED to be installed by low-voltage contractors.
- Shades smoothly move in unison and stop in exact alignment within $\pm 1/8"$ accuracy.
- Optional infrared system provides easy, convenient control from anywhere in the room.



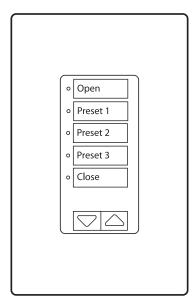
electrical keypad faceplate styles

Architectural



- available in insert and non-insert models
- sharp outside corners and beveled outside edges
- available in matte plastic colors and metal finishes
- product dimensions
 - W: 2.75"
 - H: 4.56"
 - D: 1.13"

Designer



- available in insert models only
- standard "decorator" opening
- outside corners of wallplate are rounded
- · available in gloss and satin finishes
- · product dimensions
 - W: 2.94"
- H: 4.69"
- D: 1.13"

For a full presentation of colors, finishes, and keypad styles, please visit www.lutron.com or order the colors of Lutron brochure, P/N 367-949.

electrical keypad button layouts

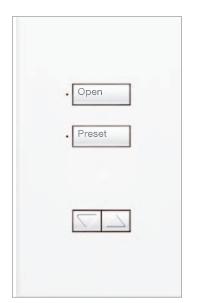
All keypads control either a singe EDU or a group of EDU's operating together. They require a wallbox for single or multi-gang installation.

Open	
. Close	



SVQ-2W-Full open, full close





SVQ-2WRL-Full open, full close, raise and lower

. Open
. Preset
. Close
\Box

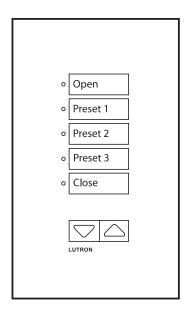
SVQ-3WRL-Full open, full close, one preset, and raise and lower

electrical keypad button layouts

Preset 1 Preset 2
Preset 2
TIESEL Z
Close

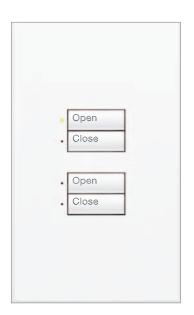
SVQ-4WRL-IR-

Full open, full close, two presets, infrared reception, and raise and lower



SVQ-5WRL-Full open, three presets, full close,

and raise and lower

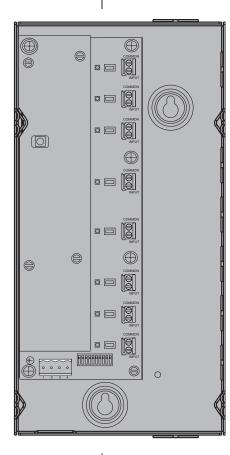


SVQ-2WD-Full open and full close for two separate groups

•	Open
	Preset
	Close
ľ	
	Open
	Preset
	Close

SVQ-3WD-Full open, full close, and one preset for two separate groups

electrical contact closure input board



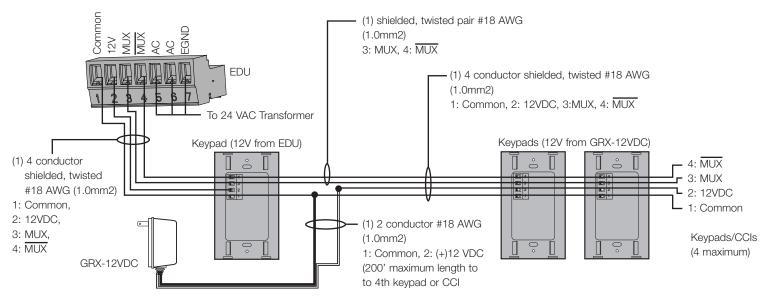
SVQ-CCI-8

- Receives eight contact closure inputs and sets presets, programs EDUs, etc.
- Utilizes low-voltage, dry contact closure inputs to interface with non-Lutron A/V equipment.
- LEDs provide feedback and receives IR commands.
- Receives power and communication on 4-wire QED communication bus.
- Ships in enclosure, ready for mounting.
- Dimensions for enclosure W: 5.25" (5.75" with cover) H: 10.25" (10.75" with cover) D: 2.00"
- Terminal Blocks Accomodate 14-22 AWG wire.
- Can be configured to operate 1, 2, or 4 groups.

electrical external keypad power supply

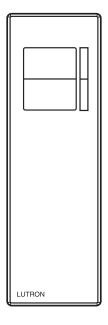
GRX-12VDC

The number of keypads and CCIs in a Sivoia QED system is not to exceed the number of EDUs unless an external keypad power supply is used. The GRX-12VDC can be used to power up to four additional keypads or CCIs beyond the number of EDUs in the system. For more, please see the app note on www.lutron.com.



electrical hand-held infrared remotes

Sivoia QED remotes can control one EDU or a group of EDUs acting together. They ship with AAA alkaline batteries. Use only one infrared receiver per room.



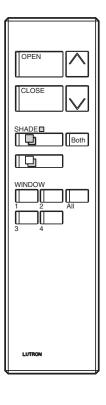
SVQ-OCIT-WH

Full open, full close and fine-tune raise and lower

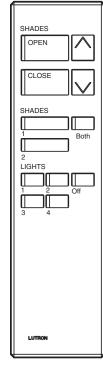


SVQ-3PIT-WH

Full open, three presets, full close and fine-tune raise and lower



SVQ-4GD-OCIT-WH Control individual EDUs or up to four groups of EDUs. Ideal for dual-mounted applications. (see page 2.6)



SVQ-4S2G-IT-WH

Control both Sivoia QED EDUs and Lutron lighting control systems. Ideal for home theater or conference room applications.

electrical transformer panel



Typical components for a Sivoia QED roller shade system (not shown to scale)

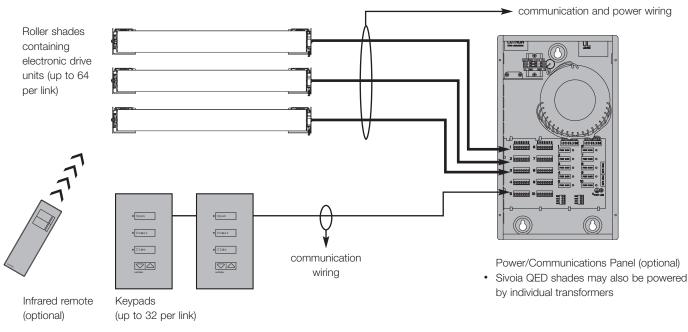
SVQ-10-PNL

Simplify the wiring and organize installations that require multiple transformers. The power panel consists of a 10-output transformer, 10 fuses and a wire landing board.

Each panel has 10-7 pin connectors for EDUs, each connector is supplied with power for an individual EDU. The panel contains a bus that connects the four communication link wires from each EDU together. It is recommended to home run both EDU and keypad wiring to the power panel.

Note: Maximum feed breaker size of 30 Amps. Each terminal block will accept one 10-18 AWG wire. Power panels must be grounded for safe operation and installed by a licensed electrician adhering to all local and national codes.

Please see the chart on page 3.12 for specific gauges and limitations.



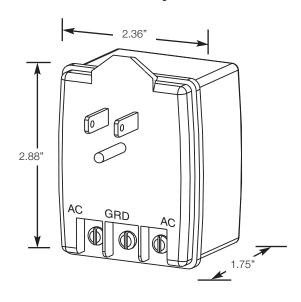
Note: CCI (Contact Closure Input) panels are available to connect to outside systems such as BMS (Building Management Systems) or touchscreen systems. See page 1.6

1.8

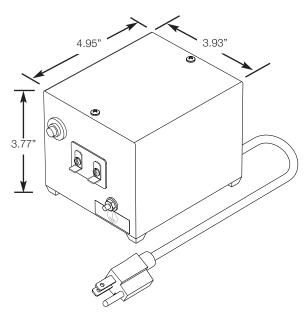
electrical individual transformers

Determining which transformer to use depends upon the size of the shade the EDU needs to operate. For up to 50 square feet of fabric, the 50VA transformer is sufficient. For Sivoia QED treatments up to 225 square feet, either of the 100VA transformers can be used.

Note: There is no paralleling of transformer wiring. One transformer may only power one EDU. All transformers must be earth-grounded.

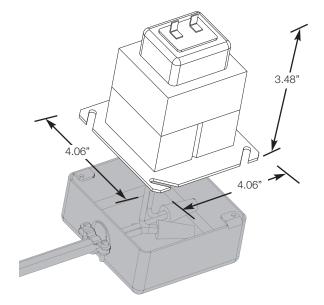


SV-50SF-PI 50VA plug-in transformer for up to 50 square feet of fabric.



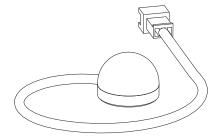
SV-100SF-PI 100VA plug-in transformer for up to 225 square feet of fabric.

TRANSFORMER CAPACITY						
Type Transformers Per 20a Circuit	CURRENT PER TRANSFORMER					
SV-50SF-PI 44	.45A	36				
SV-100SF-PI 23	.85A	17				
SV-100SF-JB0X 23	.85A	17				
SVQ-10-PNL* 2 PANELS	8A/PANEL	1 PANEL				
*Ten EDUs per transformer panel, each EDU must be wired to a dedicated transformer						



SV-100SF-JBOX 100VA junction-box mount transformer for up to 225 square feet of fabric.

electrical optional infrared receivers



Any Sivoia QED drive has built-in infrared capability simply plug in a remote infrared receiver. It is a small 1.0" wide dome connected to the EDU by a thin 22.0" cable. Extensions of tenfoot lengths are available if the layout requires the receiver eye to be located further from the EDU. Unobtrusive mounting clips and adhesive tape are also provided.

SV-IR

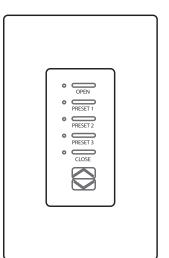
Infrared remote eye, available in white and royal plum

electrical integration accessories



HomeWorks_® Whole-Home Lighting Control System HWI-Q96 SOLos[™] integrator

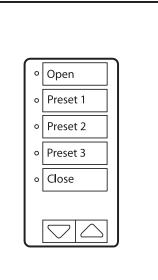
- This low-voltage component provides two-way communication between HomeWorks and Sivoia QED systems
- Can be placed in any HomeWorks HWI-LV-17, HWI-LV-24, or HWI-LV-32 enclosures and is compatible with 4 series and 8 series HomeWorks processors
- Operate all EDUs, groups of EDUs, or single EDUs from HomeWorks Keypads or RS-232 port on HWI processor.
- For wiring information, see page 4.2



$\label{eq:rescaled} \begin{array}{l} \mbox{Radio} RA {\tiny \textcircled{\sc whole}} \ \mbox{Whole-Home Lighting Control System} \\ \mbox{RA-SVC} \end{array}$

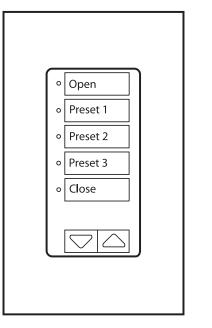
- Receives signal from RadioRA control system and operates all EDUs on the communication link.
- Must be installed within 30 feet of signal repeater.
- For wiring information, see page 4.11

electrical integration accessories



GRAFIK 3000/4000 Lighting Control Systems SG-SVC

- Provides two-way communication between Sivoia QED and GRAFIK 3000 or GRAFIK 4000 lighting control system.
- Allow one zone on the Grafik Eye main unit for each SG-SVC.
- Does not occupy a GRX main unit address or accessory control address.
- · Operates all Sivoia QED EDUs on the communication link.
- Available in decorator and architectural insert styles.
- For wiring information, see page 4.4



GRAFIK 5000/6000/7000 Lighting Control Systems SO-SVC

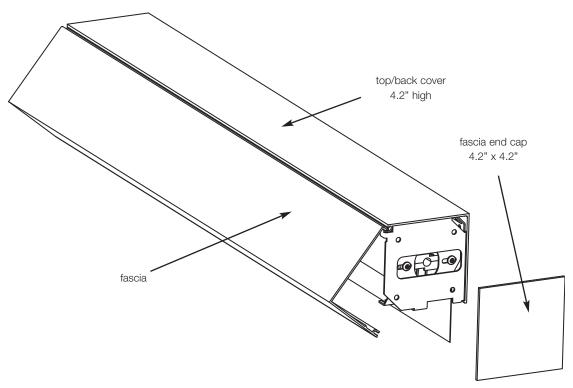
- Provides two-way communication between Sivoia QED and GRAFIK 5000, 6000 or 7000 lighting control system.
- · Occupies one address on wallstation link.
- Operates all QED EDUs on the communication link.
- · Available in decorator and architectural insert styles.
- For wiring information, see page 4.9

2 roller shade mechanical components

Notes	

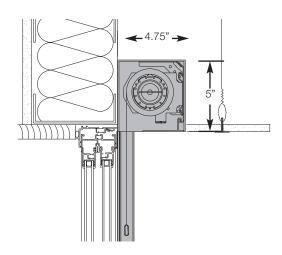
mechanical fascia and top/back cover

A two-piece enclosure system designed to conceal the drive system and offer easy access for maintenance. Some systems offer a curved fascia as well.

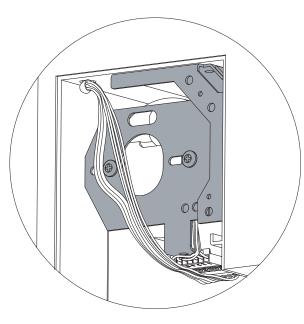


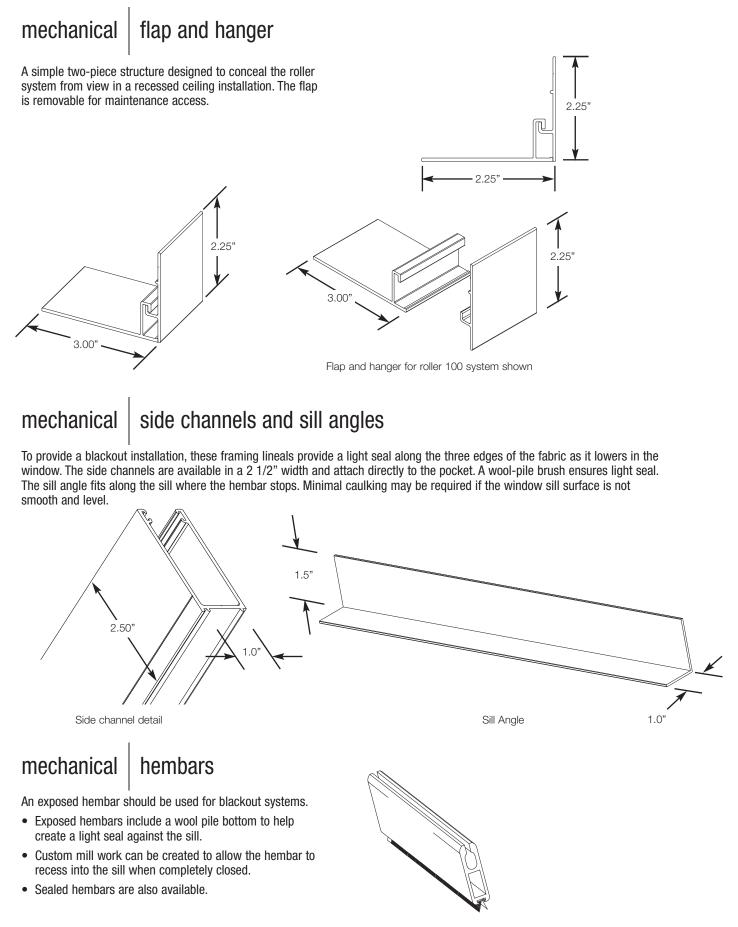
mechanical pocket

A one-piece metal enclosure for wall, inside or recessed installation. The width of the pocket is equal to the bracket-to bracket dimension. The pocket is approximately 1 1/2" wider than the fabric panel width. See recommended wire dressing for the roller 100 pocket to left.



Fascia and Top/Back cover for roller 100 system shown





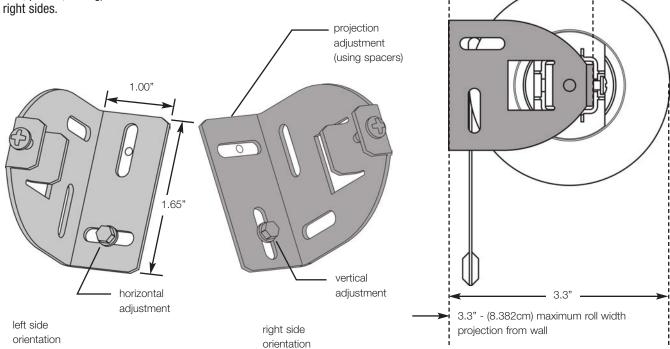
2.3

24/7 Service and Support: 1-800-446-1503

MECHANICAL COMPONENTS

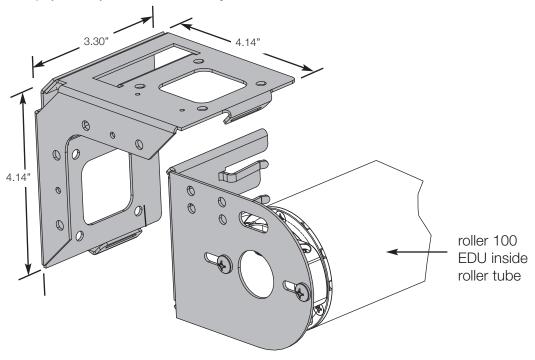
mechanical roller 64 brackets

The system uses one simple bracket for any installation (jamb, wall, pocket, ceiling). The same bracket is used for the left and right sides.

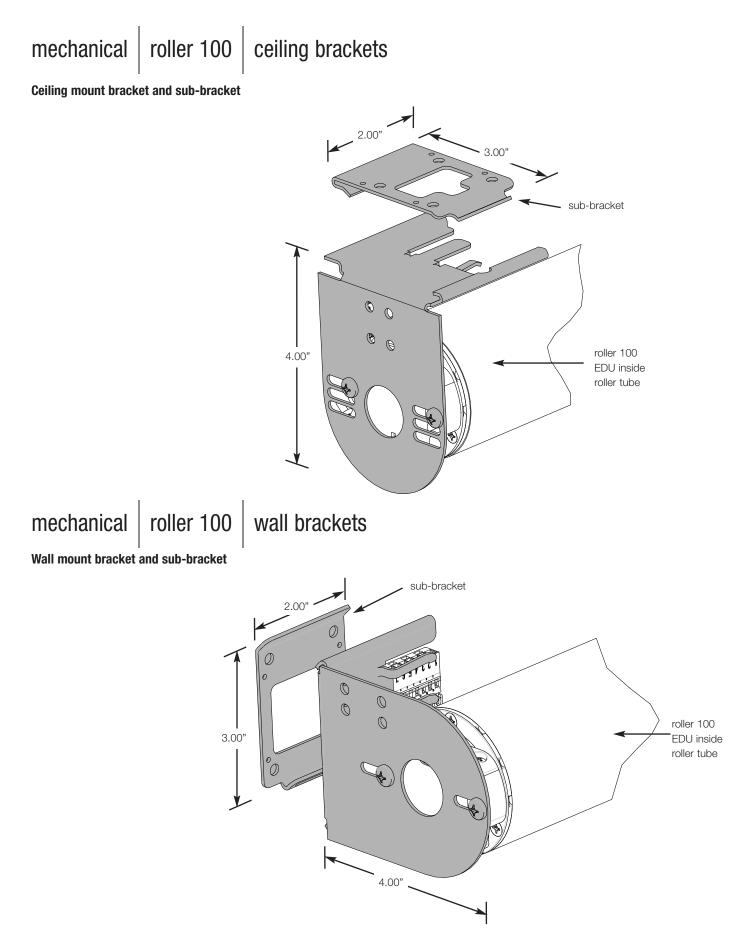


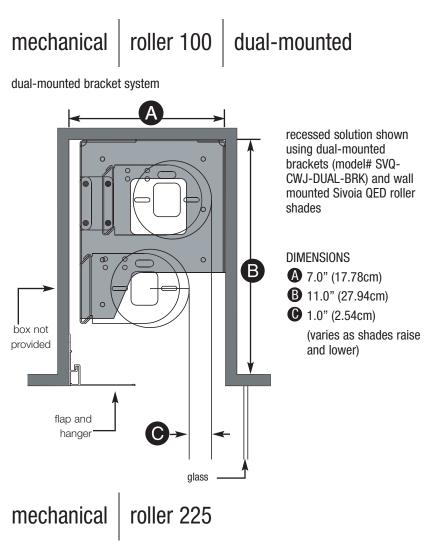
mechanical roller 100 jamb brackets

All roller 100 bracket systems offer leveling, centering and projection adjustments after mounting.

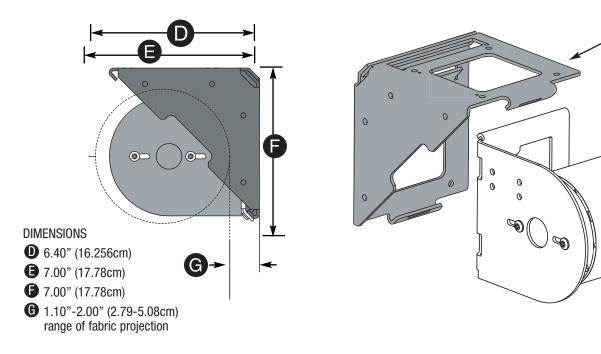


2.125'

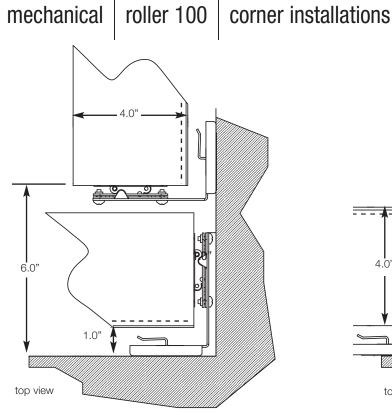




The roller 225 system can only be installed in a jamb or recess position. This bracket system also offers leveling, centering and projection adjustments after mounting.

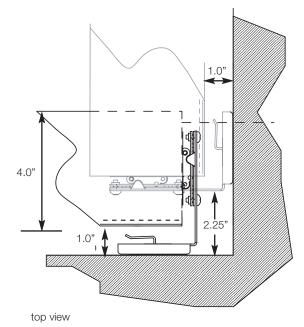


sub-bracket



Option 1

Roller shades mounted at same height meeting in a corner. Regular fabric roll shown.

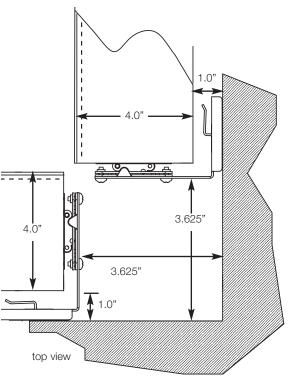


Option 3

Roller shades mounted in vertical stack, meeting in a corner. Standard fabric roll shown. The lower shade is installed up to 2.25" off the perpendicular wall to allow the fabric from the upper shade to drop behind the lower shade's idler bracket.

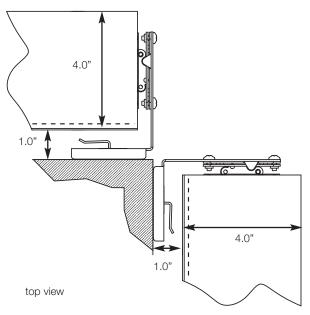
Note: dashed lines indicate fabric drop

Sivoia QED_{TM} (quiet electronic drive) Shading System



Option 2

Roller shades mounted parallel meeting in a corner. Reverse fabric roll shown. A reverse roll here minimizes the fabric gap when the shades are lowered.



Option 4

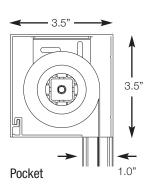
Roller shades mounted parallel meeting at an outside corner. Regular fabric roll shown to minimize fabric gaps.

Note: dashed lines indicate fabric drop

mechanical

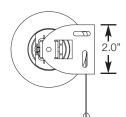
system dimensions

Roller 64

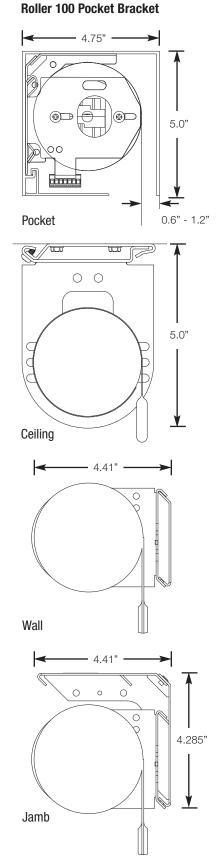




Ceiling



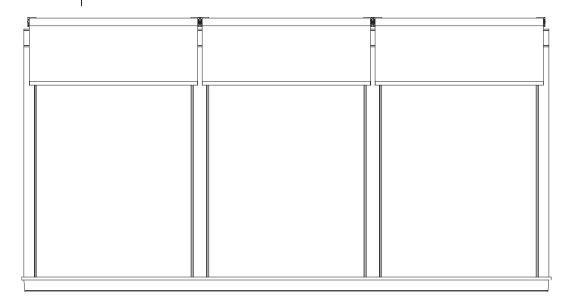
Wall/Jamb



Roller 225

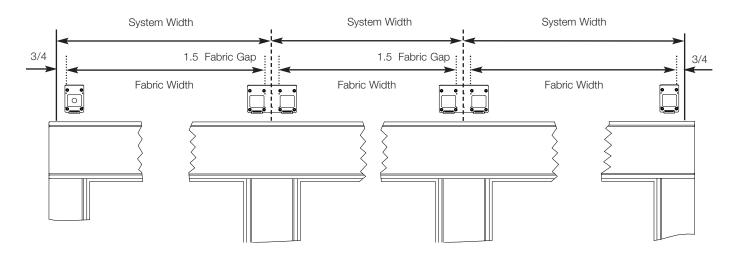
1.10" - 2.00"

how to measure in-line coupling



Coupled shades may provide a means to reduce the total installed cost of the Sivoia QED system. The number of EDUs on a job may be reduced where independent control of adjacent shades is not needed. With a reduction in the number of EDUs there will be an equal reduction in transformers and wiring. This may also simplify the programming and setup of the job.

In an in-line coupled system, one EDU is lifting up to three fabric panels. The EDU can lift aproximately 100 square feet of fabric. For a specific application, use the Shade Configuration Tool (available at www.lutron.com) to verify that dimensions and fabric panel sizes fall within the scope of the Sivoia QED system. With the in-line coupled system, up to three shade panels can be operated from a single EDU. A coupling pin provides for phase adjustment that allows the installer to adjust the hembar alignment after installation and without removing the fabric panels from the tube. Likewise, the in-line coupled system provides the same leveling, shade centering, and projection adjustment that is provided on the single roller Sivoia QED shade. Also, in-line coupling is supported for all five mounting conditions: wall, ceiling, jamb/recess, fascia, and pocket. Fabric gaps are shown in the illustration below.



3 wiring

3

Notes			

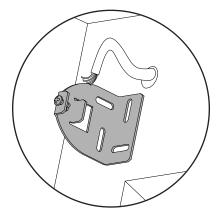
Jamb Mount with wires through:

prewire roller 64

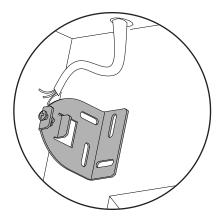
Choose one of the options below to drill for cable access. **Note:** Cable should exit from wall, ceiling, or jamb on EDU side of system.

Note: Leave 12-18" (30.5-45.7cm) of cable exposed.

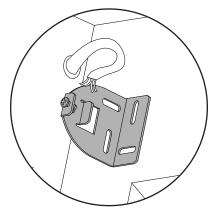
Wall Mount with wires through:



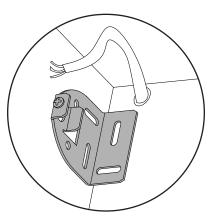
A) Wall: 1" in from end of system and .5" from top of bracket



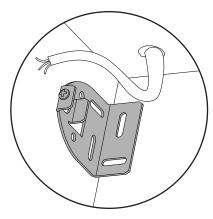
B) Ceiling: .5" in from end of system and .5" from mounting wall



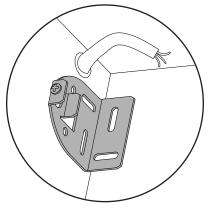
C) Jamb: 1" from top of bracket and .5" from mounting wall



A) Wall: .5" from ceiling and .5" from outside of jamb

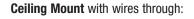


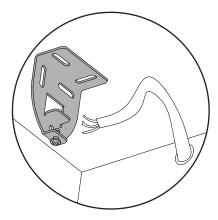
B) Ceiling: .5" from wall and .5" from outside of jamb



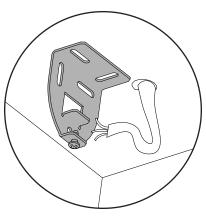
C) Jamb: .5" from ceiling and .5" from wall

3.2

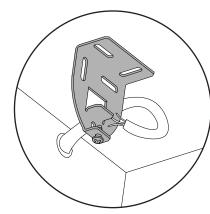




A) Wall: 1" in from end of system and .5" from ceiling



B) Ceiling: 1" in from end of system and .5" from back of bracket



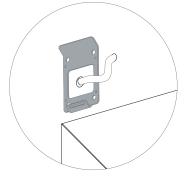
C) Jamb: 1" from back of bracket and .5" from ceiling

prewire roller 100 wall and ceiling mount

Determine where to drill for cable access to EDU. Leave 12-18" of cable exposed.

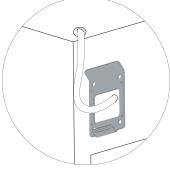
Wall Mount





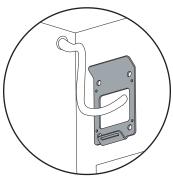
Drill for cable 1 1/4" - 2" from end of system and 2 - 2 1/2" from top of system

cable exiting ceiling



Drill for cable 1/2" from end of system and 1/2" from mounting wall.

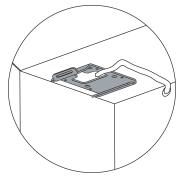
cable exiting jamb



Drill for cable 1/2" from top top of system and 1/2" from mounting wall.

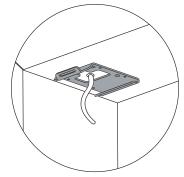
Ceiling Mount

cable exiting wall



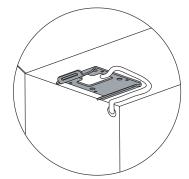
Drill for cable 3 1/4" from end of system and 1/2" down from top of system.

cable exiting ceiling



Drill for cable 1 1/4" - 2" from end of system and 1 1/4" - 1 3/4" from back of system.

cable exiting jamb



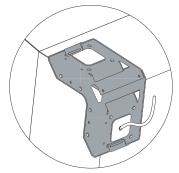
Drill for cable 1/2" from top top of system and 3/4" from mounting wall.

prewire roller 100 jamb and fascia/top-back cover

Determine where to drill for cable access to EDU. Leave 12-18" of cable exposed.

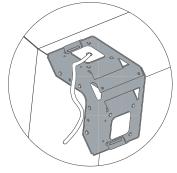
Jamb Mount

cable exiting wall



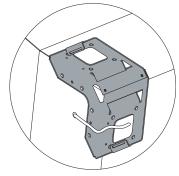
Drill for cable 2 1/2"- 3" from top of system and 1 1/4"-2 1/4" from end of system.

cable exiting ceiling



Drill for cable 2 1/2"-3" from back of the system and 1 1/4"-2 1/4" from end of system.

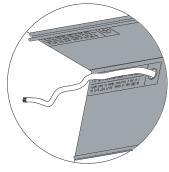
cable exiting jamb



Drill for cable 2" from top and 2" from the back of the system.

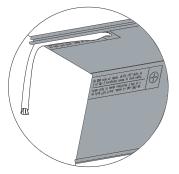
Fascia/ Top-back Cover

cable exiting wall



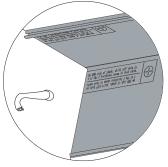
Drill for cable 4" from end of system and 1/2" from top or where indicated on top/back cover.

cable exiting ceiling



Drill for cable 4" from end of system and 1/2" from front or where indicated on top/back cover.

cable exiting jamb



Drill for cable 2" from top and 2" from the back of the Top/Back cover.

prewire roller 100 recess pocket

Determine where to drill for cable access into pocket. See options below. Cable should exit from wall, ceiling or jamb on EDU side of pocket.

Roller 225





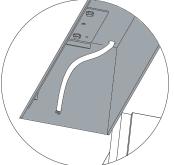
Drill for cable 1/2" from end of pocket and 1/2" from top of pocket.

jamb

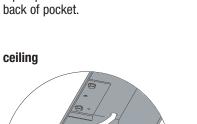


Drill for cable 3-3/4" from top of pocket and 2" from





Drill for cable 1/2" from end of pocket and 1/2" from back of pocket.



prewire roller 100 dual-mounted

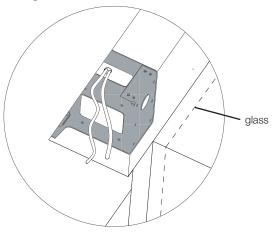
Determine where to drill for cable access. See options below.

Two lengths of 12-18" of cable should exit the ceiling, jamb or either wall on the EDU side of the shades.

ceiling

jamb

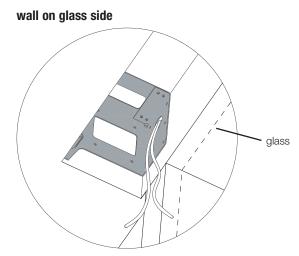
system.



Drill for cable 1 1/2" - 3 1/2" from back and 1 1/4" - 2" from end of system.

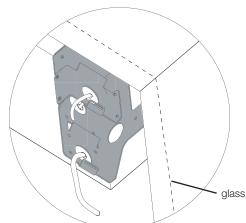
Drill for cable 5 1/4" - 6" from

back and 4 1/4" -5" from top of



Drill for cables 1 1/2" - 2 1/2" from top and 1 1/2" - 2 1/2" from end of system.

wall opposite glass side



Drill for one cable 2 1/2" - 3 1/2" from top and 1 1/2" - 2 1/2" from end of the system. Drill for second cable 6 1/2" -7 1/2" from top and 1 1/2" - 2 1/2" from end of system.

WIRING

Sivoia QED_{TM} (quiet electronic drive) Shading System

glass

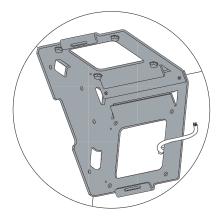
prewire | roller 225

The Sivoia QED Roller 225 system uses different brackets than the roller 100 system. Two lengths of 12-18" of cable should exit the ceiling, jamb or either wall on the EDU side of the shades.

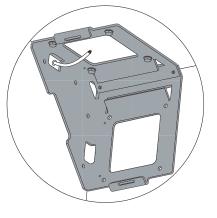
cable exiting wall

cable exiting jamb

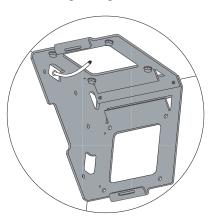
cable exiting ceiling



Drill for cable 1 1/2" from end of system and 2 1/2"-4" from top of system.

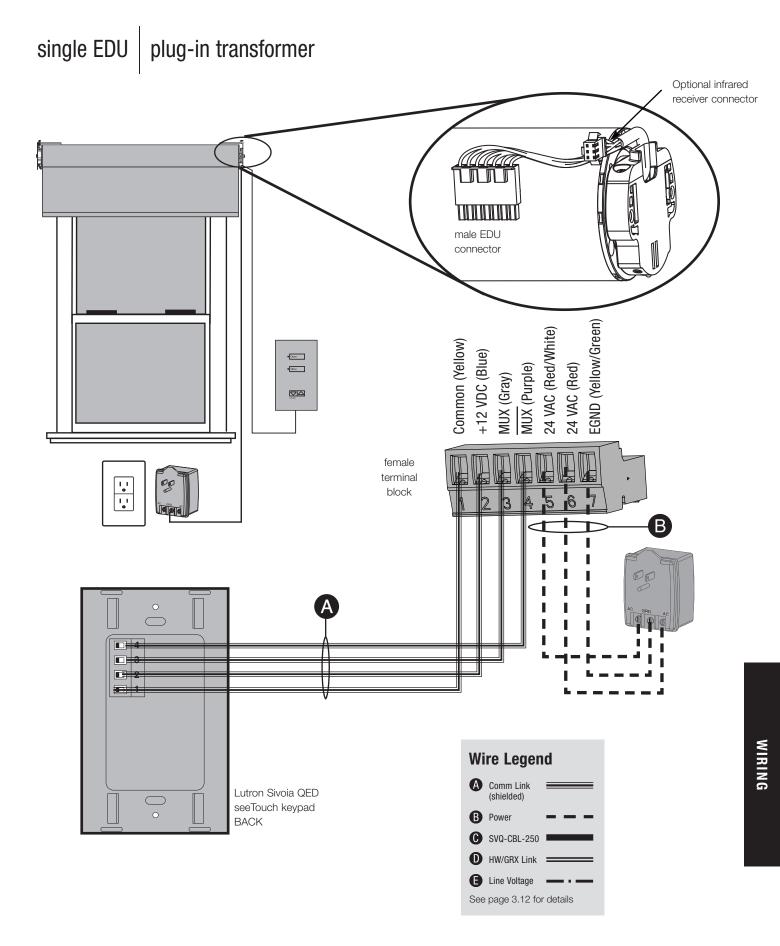


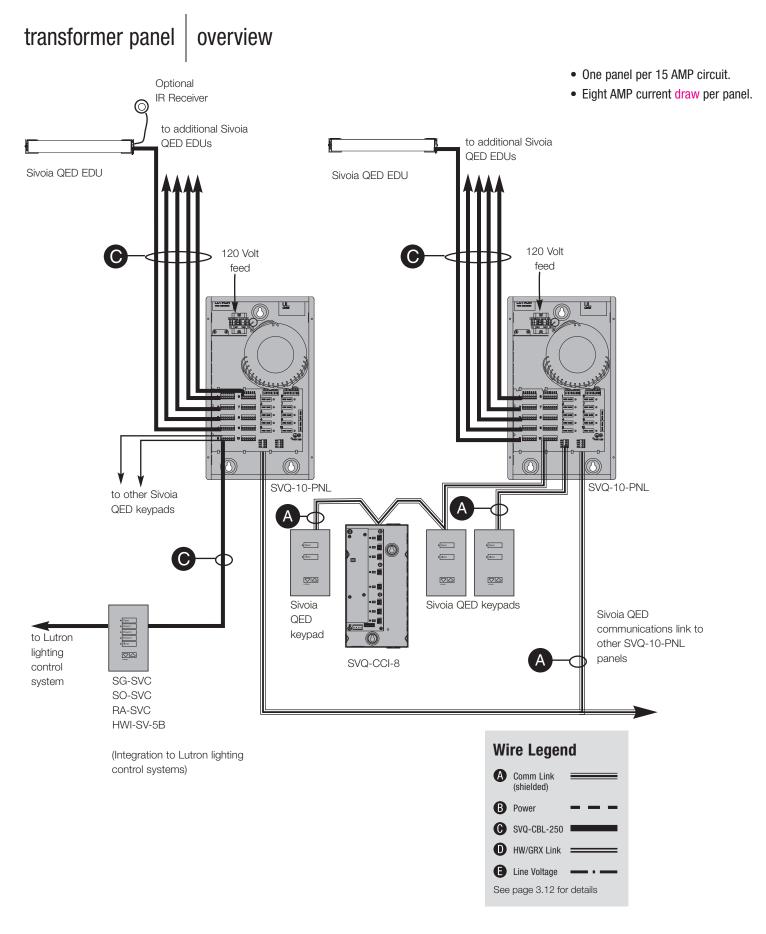
Drill for cable 1/2" from top of system and 3 1/2" from back of system.



Drill for cable 1/2" to 3 3/4" from end of system and

2 1/2"- 4 1/2" from back of system.

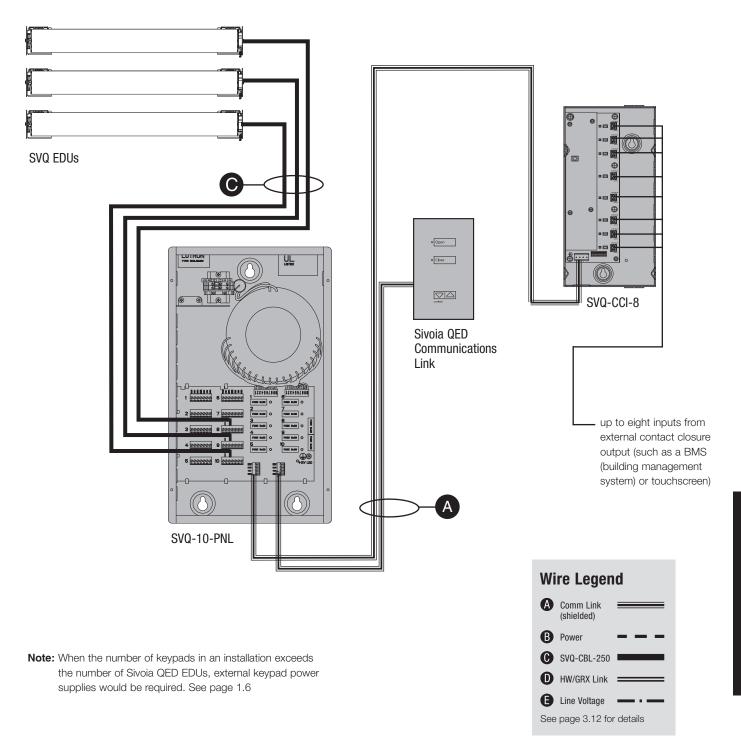




transformer panel home-run wiring

Advantages:

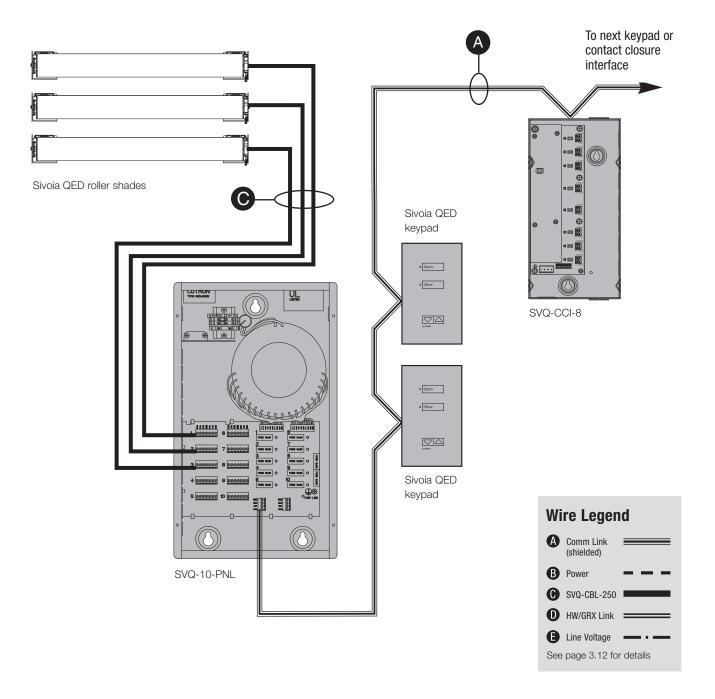
- No derating of distances
- Most convenient for pre-wire and installation
- · Most accessible for troubleshooting



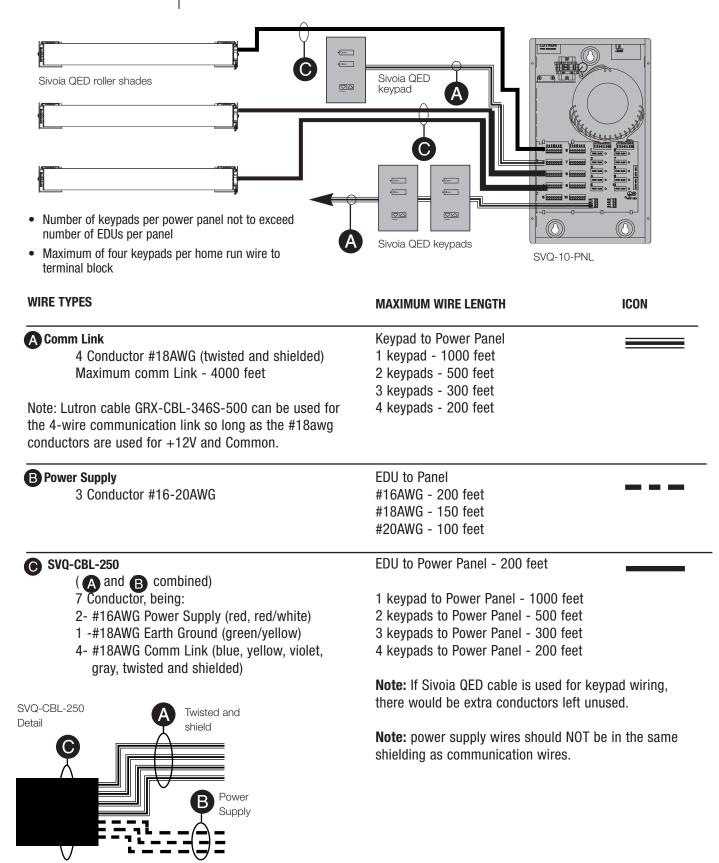
transformer panel with communications link

• Utilize a custom Lutron cable to connect all power from each EDU to the transformer panel in a home-run fashion.

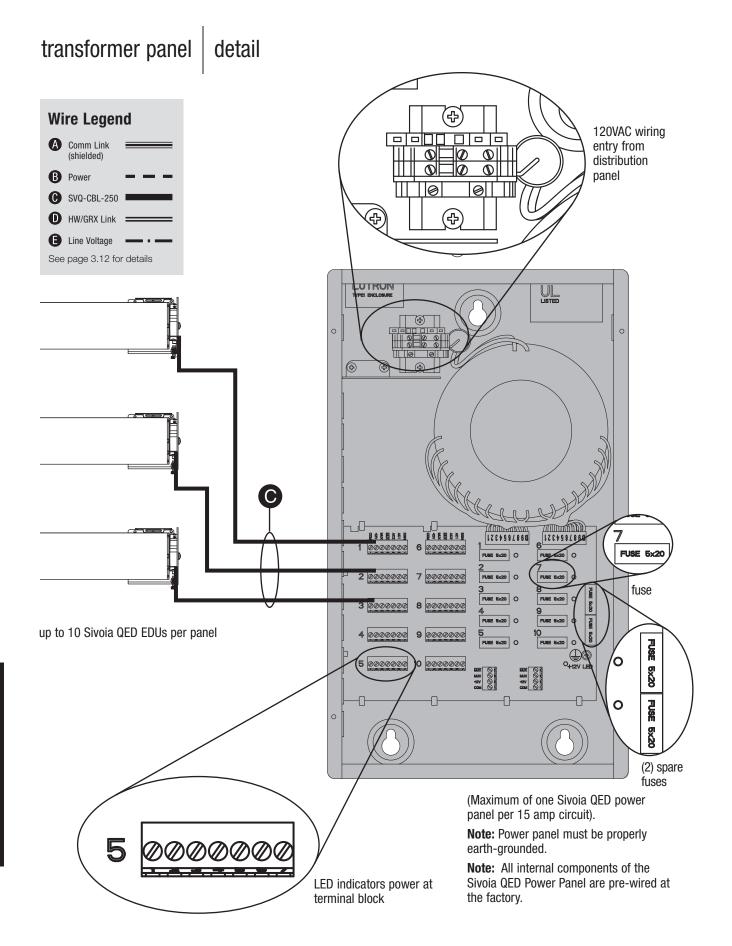
Four conductor low-voltage wiring then links the panel to all keypads and contact closure interfaces. See page 1.6 for limitations on daisy-chaining controls on one branch. **Note:** When the number of keypads in an installation exceeds the number of Sivoia QED EDUs, external keypad power supplies would be required. See page1.6 for more on this feature.



transformer panel wire specifications

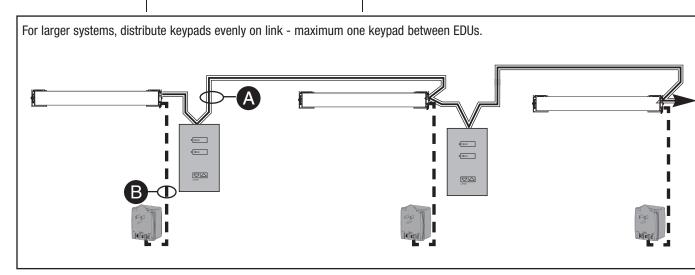


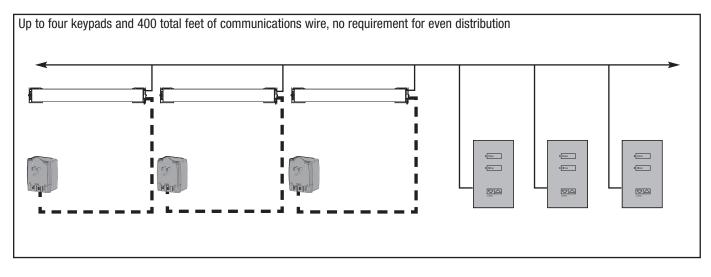
Sivoia QED_{TM} (quiet electronic drive) Shading System 3.12



WIRING

multiple EDUs individual transformers overview







A Communications Link

4 Conductor #18AWG (twisted and shielded)

B Power Supply

3 Conductor #16-20AWG



(sinerded) Power SVQ-CBL-250 HW/GRX Link Line Voltage See page 3.12 for details

Maximum Wire Length EDU to EDU - 500 feet Maximum total communication link - 4000 feet

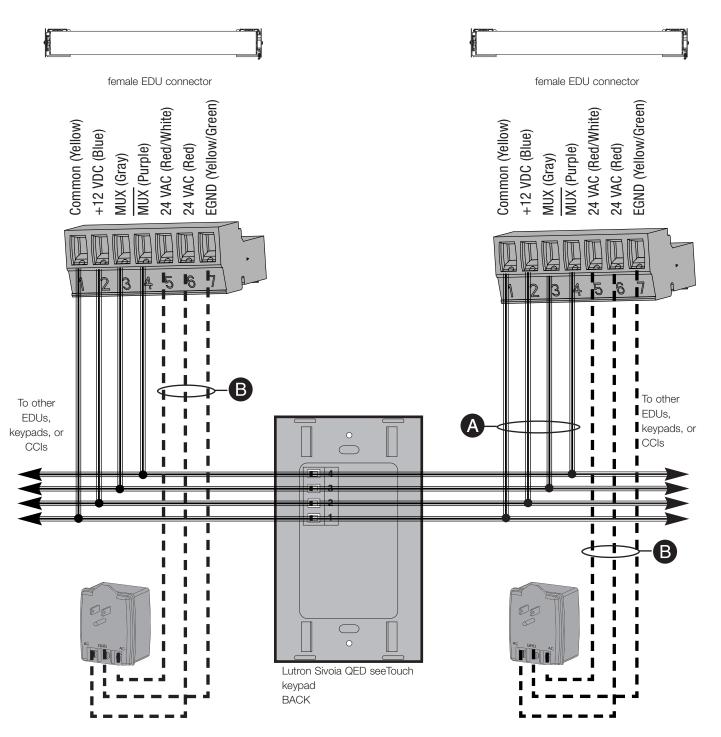
Maximum Wire Length

Transformer to EDU #16AWG - 200 feet #18AWG - 150 feet #20AWG - 100 feet

detail

multiple EDUs individual transformers

- Every keypad, CCI, and EDU is connected by the Sivoia QED™ Communication Link.
- Wire each EDU to a Sivoia QED plug-in transformer, junctionbox-mount transformer, or a Sivoia QED power panel.
- Each EDU must be EARTH grounded.
- Each transformer, of any type, can power ONLY ONE EDU, regardless of shade size.



Wire Legend

SVQ-CBL-250

HW/GRX Link

A Comm Link (shielded)

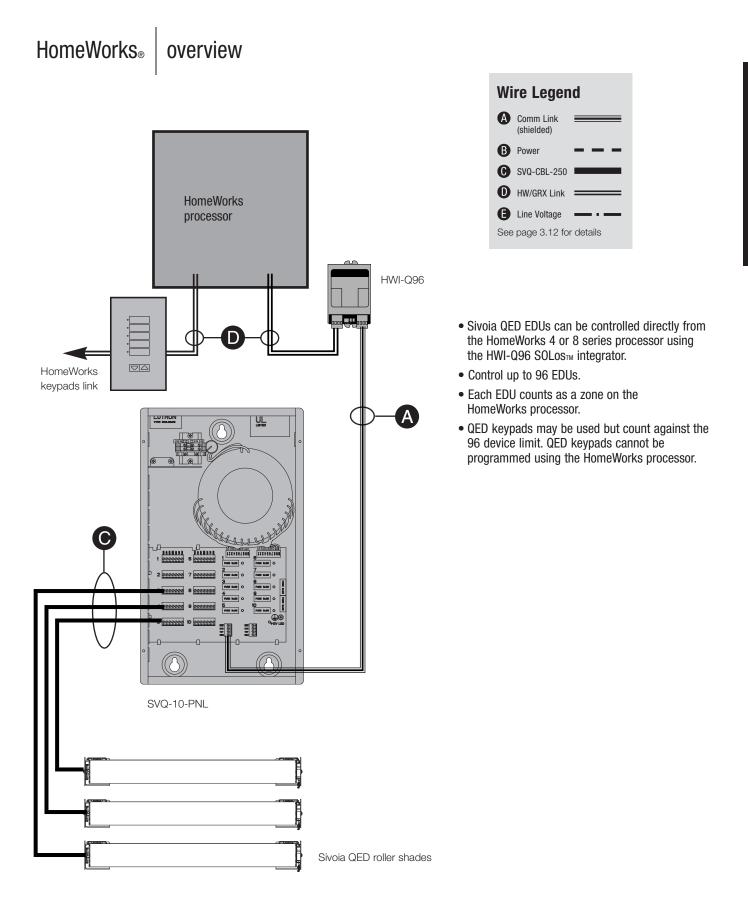
B Power

0

D

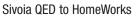
4 integration

Notes			



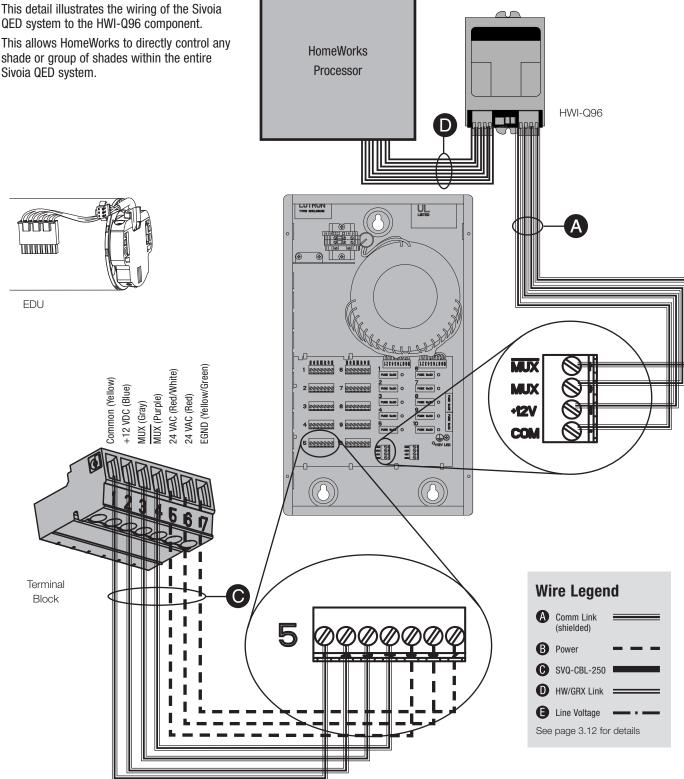
4.2

HWI-Q96 SOLos, detail HomeWorks_®



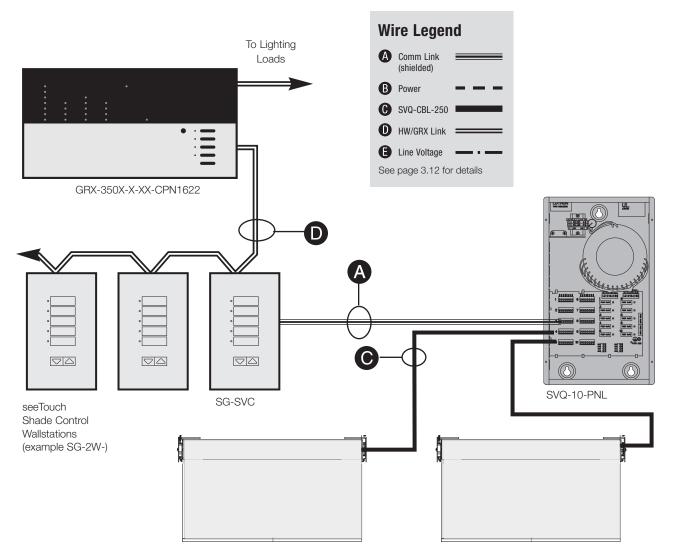
This detail illustrates the wiring of the Sivoia QED system to the HWI-Q96 component.

shade or group of shades within the entire Sivoia QED system.



GRAFIK_® 3000 overview

Sivoia EDUs can be controlled directly from the GRAFIK 3000 wallstation by using the SG-SVC control. The control coordinates the movement of Sivoia EDUs with lighting controls in preset scenes on the GRAFIK Eye® throughout an entire room such as a classroom or living room. One SG-SVC is required per group of shades moving in unison. The SG-SVC will operate all window treatments on the Sivoia QED link.

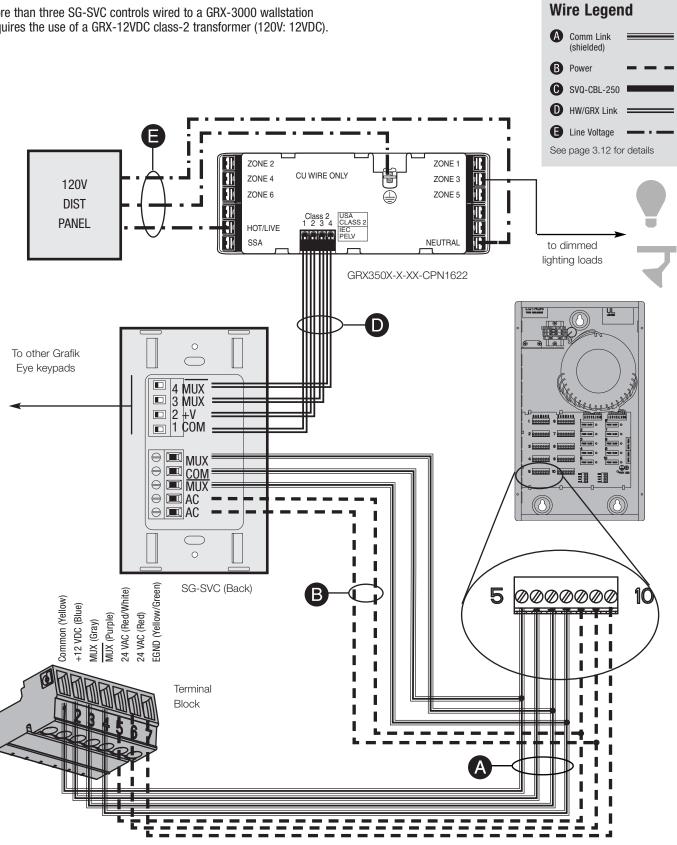


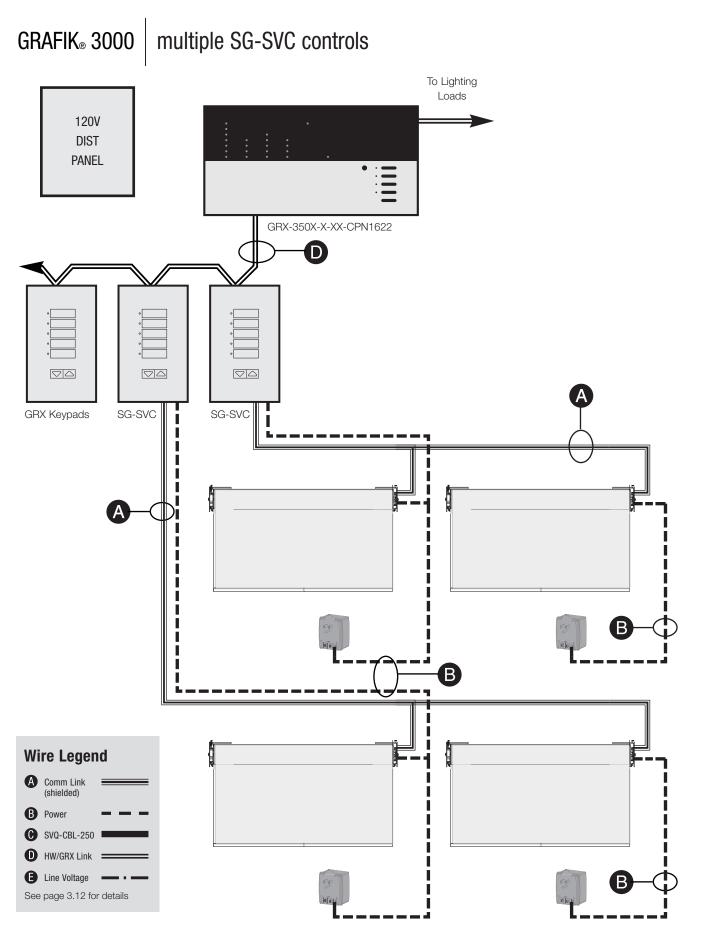


	Zones	Main Units	SG-SVC Controls	GRX Accessory Controls*
GRAFIK Eye 3000	48	8	8	16
-	rols include standa	rd scene selection wallstat	ions. shade control wal	

GRAFIK® 3000 detail

More than three SG-SVC controls wired to a GRX-3000 wallstation requires the use of a GRX-12VDC class-2 transformer (120V: 12VDC).

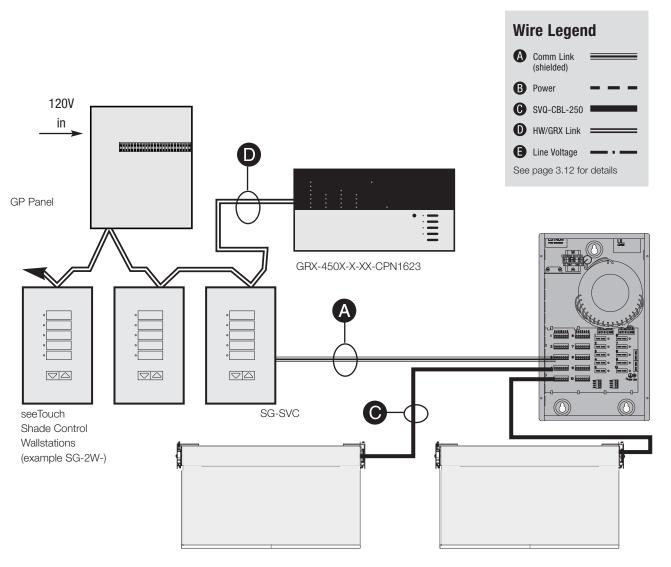




Sivoia QEDTM (quiet electronic drive) Shading System

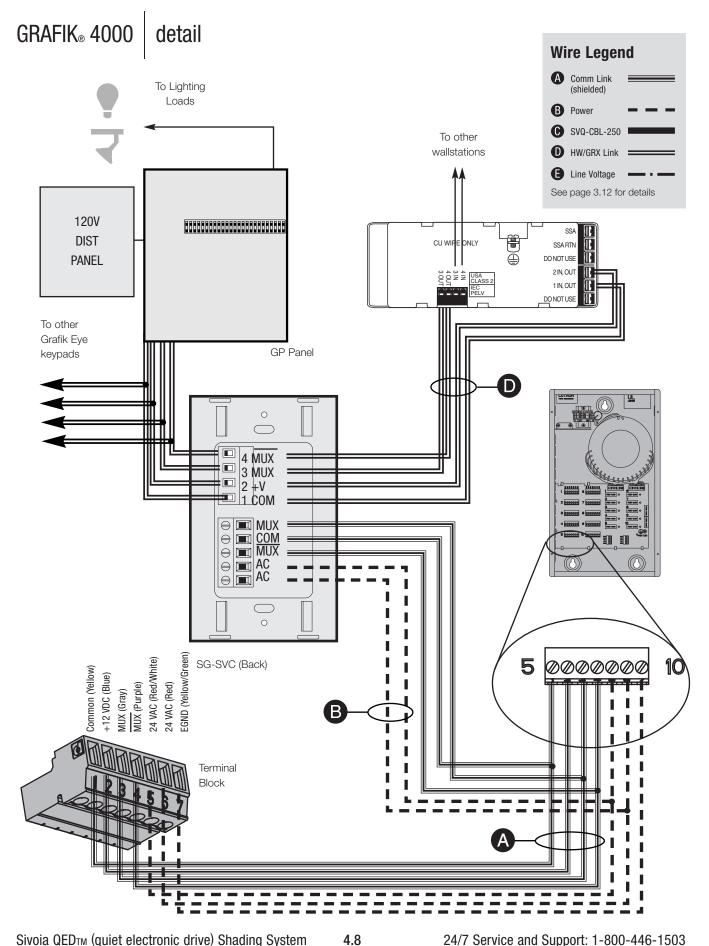
GRAFIK_® 4000 overview

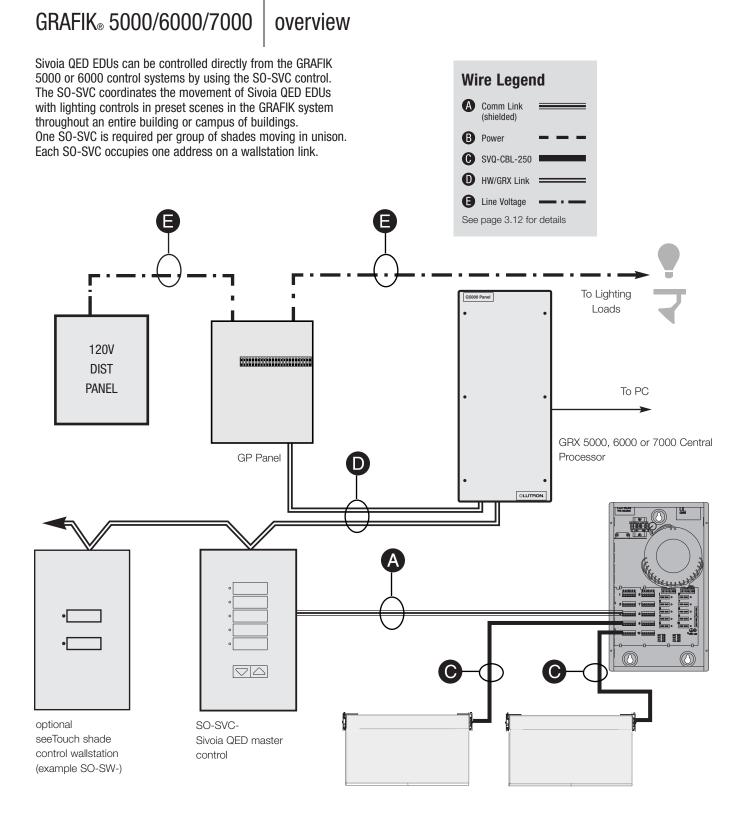
Sivoia EDUs can be controlled directly from the GRAFIK 4000 wallstation by using the SG-SVC control. The SG-SVC coordinates the movement of Sivoia EDUs with lighting controls in preset scenes on the GRAFIK Eye. One SG-SVC is required per group of shades moving in unison. A maximum of eight SG-SVC controls can be employed with a GRAFIK 4000 system. The SG-SVC will operate all window treatments on the Sivoia QED link.



up to 10 Sivoia QED shades or draperies per panel (home-run wired)

4.7



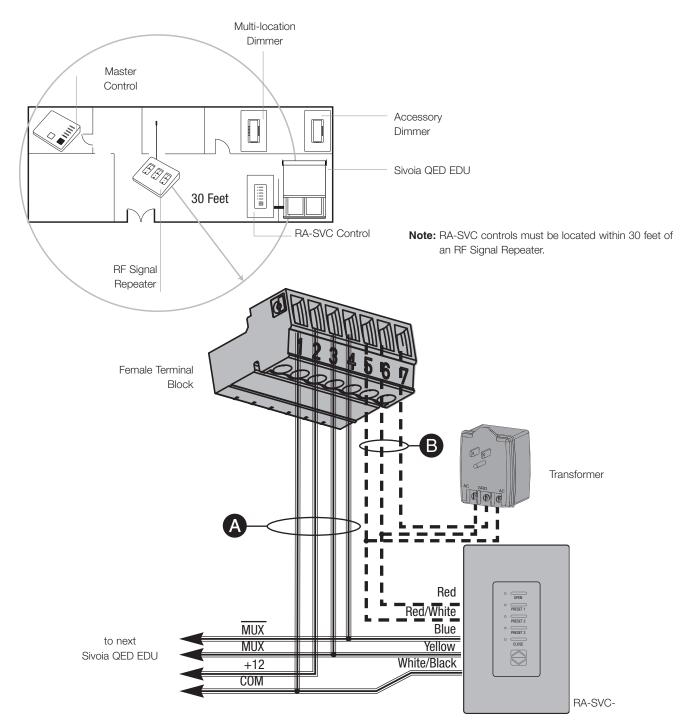


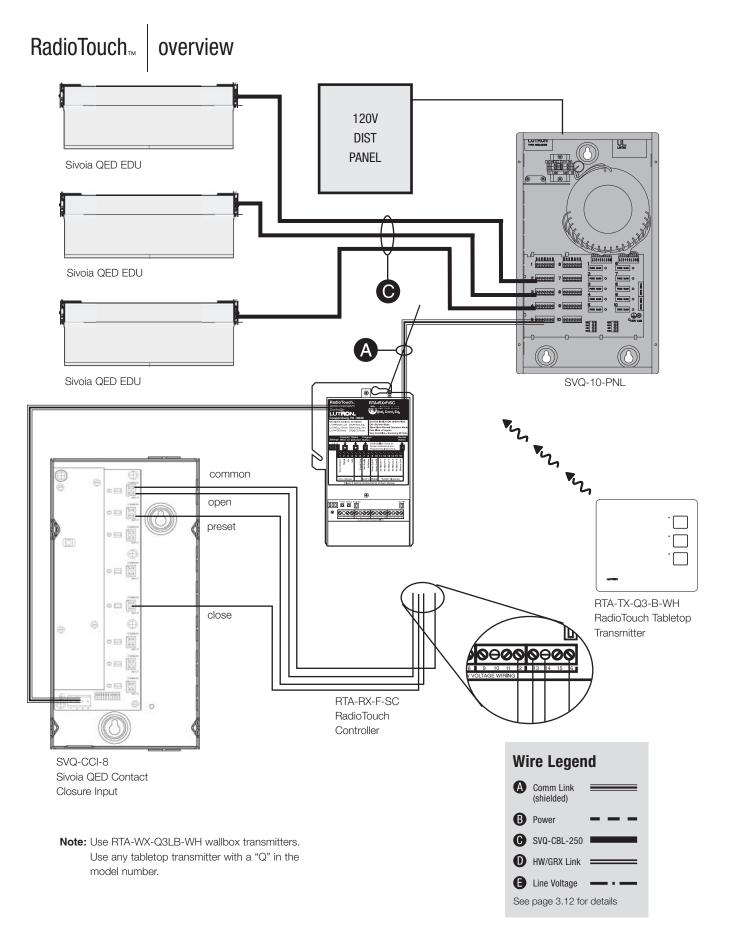
up to 10 Sivoia QED shades or draperies per panel (home-run wired)

4.9

RadioRA_® overview

Sivoia QED EDUs can be controlled directly from the RadioRa radio-frequency whole-home lighting control system by using the RA-SVC control. The RA-SVC coordinates the movement of Sivoia QED EDUs with lighting by receiving a control signal from a RadioRA Master Control via an RF signal repeater. The signal repeater must be installed within 30' of the RA-SVC control.





5 drapery track systems

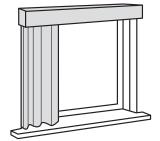
5

Notes	

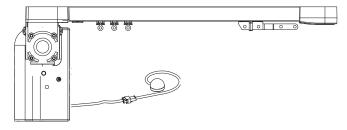
introduction

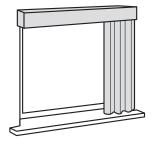
- Sivoia QED draperies are designed for use with pinch-pleat fabrics.
- The Sivoia QED drapery wiring is identical to other Sivoia QED systems.
- Standard Sivoia QED controls, interfaces and transformers can be used with the Sivoia QED Drapery system.
- straight track configurations

- The Sivoia QED drapery system interfaces to Lutron and other manufactures equipment in the same manner as other Sivoia QED shade systems.
- The programming is identical to other Sivoia QED products.
- The drapery carriers can be loaded and unloaded without disassembly.

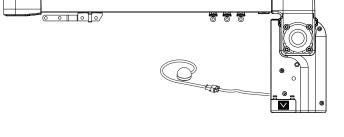


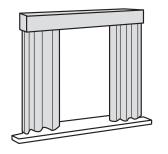
Left draw/ Left-Mounted EDU



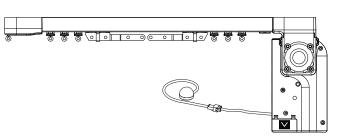


Right draw/ Right-Mounted EDU

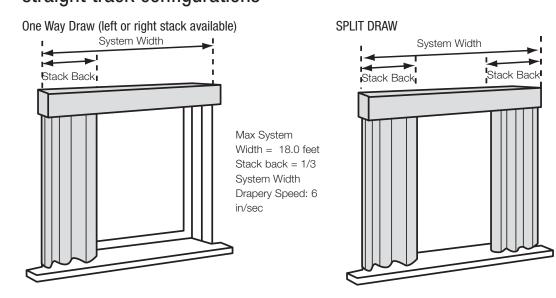




Split-Draw, Left- or Right-Mounted EDU



5.2



Max System Width: 18.0 feet (see two-motor systems for wider widths) Stack back = 1/6 System Width on each side (1/3 total)

Drapery Speed: 6 in/sec Specify the motor side when ordering a centeropen system

straight track capacity

Drapery materials and construction techniques vary widely. The size of the drapery that can be used with the Sivoia QED drapery track depends primarily on the total fabric weight of

Typical Sheer Drapery-

the draperies being used. Weight of a drape (weight given includes face fabric, lining and top bottom and side hems based and is calculated based on a fullness of 2.5:1).

	4 - 6 oz/square yard	12 - 16 oz/square yard		
Height	4 oz / square yard Total fabric weight	12 oz / square yard Total fabric weight	16 oz / square yard Total fabric weight	24 oz / square yard Total fabric weight
72.0" tall	Up to 18.0' wide	Up to 18.0' wide	Up to 15.0' wide	Up to 12.0' wide
96.0" tall	Up to 18.0' wide	Up to 18.0' wide	Up to 15.0' wide	Up to 7.0' wide
144.0" tall	Up to 18.0' wide	Up to 14.0' wide	Up to 9.0' wide	N/A

Typical Blackout Drapery with Lining-

maximum fabric weight capacities for straight tracks

Use this chart to determine the maximum fabric weight the Sivoia drapery system can operate, based upon system width.

Single EDU System

Width	3'-9'	10'-13'	14'-18'
Weight (lbs)	80	70	60

Tandem Two-Drive System

	Width	6'-18'	19'-26'	27'-36'
l (lbs,	Weight for both panels)	160	140	120

straight track configurations

Sivoia $\ensuremath{\mathsf{QED}}\xspace{\ensuremath{\mathsf{TM}}}$ (quiet electronic drive) Shading System

curved track capacity

Standard Options					
Number of Bends	4'-9' System Width	9'-18' System Width	One Way	Split Draw	Limitation
	Maximum F	abric Weight (Ibs)	Trac	k Layout	
1	40	25			system width >4' system width < 18' curve radius >20"
2*	80	50	n/a		system width >4' system width < 36' curve radius >20"

Custom options vary, contact customer service.

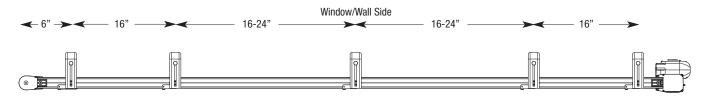
* Requires a two-motor system

mounting hardware

Track Mounting to WALL

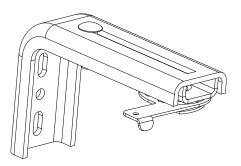
Mount the drapery track to the wall using the wall mount "L" brackets. Mount the brackets using the spacing illustrated below. Mount each end bracket 6 inches from each end of the track. Space the next bracket on both sides 16" from the end brackets. Space the remaining brackets 16-24" apart. **Mount into studs everywhere possible. Use appropriate hardware.**

Assembled Isometric View



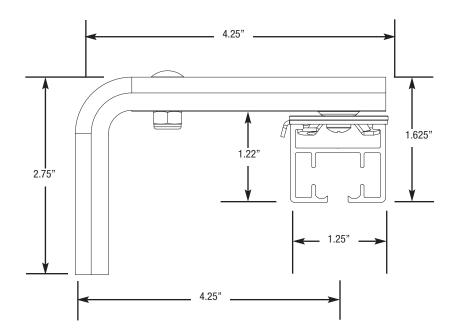
Wall-Mounted Bracket

The wall-mounted bracket provides variable adjustment from 4.50 - 6.75 inches from the mounting surface. Cam locking clips are used to attach the brackets to the track as shown in the assembled side view below.

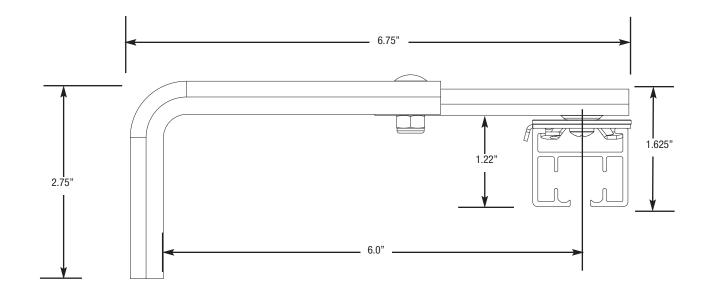


mounting hardware

wall-mounted bracket assembled side view

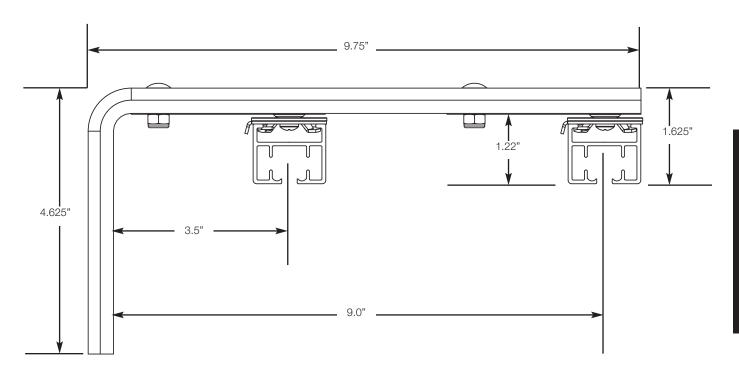


Extended bracket assembled side view

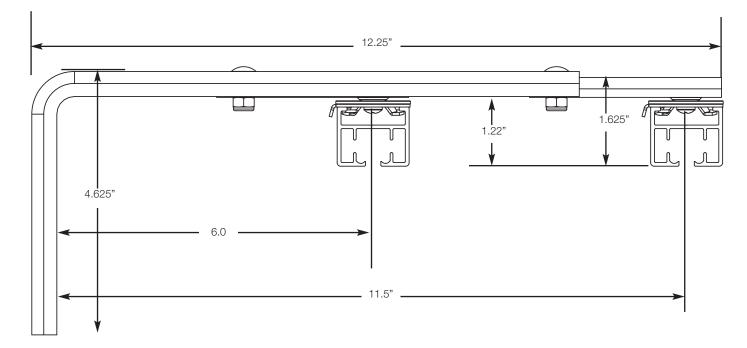


mounting hardware

Wall-Mounted Bracket Dual-mount - assembled side view assembled isometric view



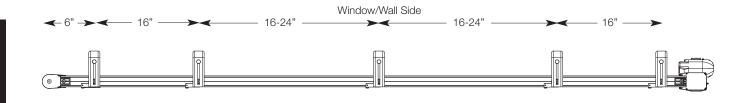
Wall-mounted bracket - Extended dual-mount -assembled side view



mounting hardware

Track Mounting to ceiling

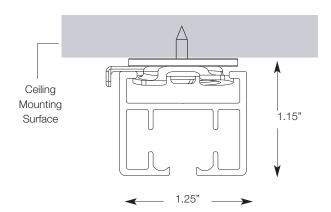
Mount the drapery track to the ceiling using the cam lock brackets. Mount the brackets using the spacing guidelines shown below. Mount one bracket 6 inches in from each side of the track. Space the next bracket on both sides 16" from the end brackets. Space the remaining brackets 16-24" apart. **Mount into studs everywhere possible. Use appropriate hardware.**

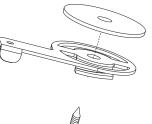


ceiling-mounted bracket

The ceiling mount option uses only the locking clip screwed directly to the ceiling mounting surface.

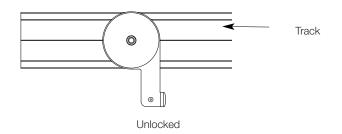








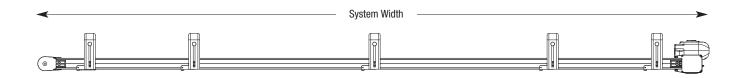
Top view of clip arm extended in unlocked position



measuring

System width

• Installed drapery covers both end caps so the track width equals the full system width as shown below.



5.8

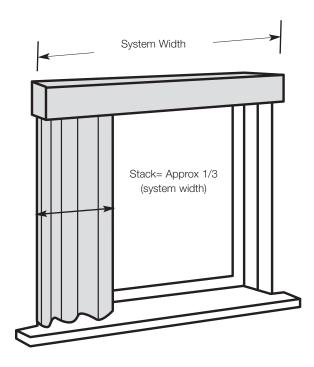
Measuring for minimum recommended overlap

• Determine the width of the system required for your application by measuring the widest part of your window opening. Draperies should overlap the window you are treating in most cases by a minimum of three inches on each side. When using the minimum overlap, the stack back of a fully-open drapery will cover a portion of the window area.

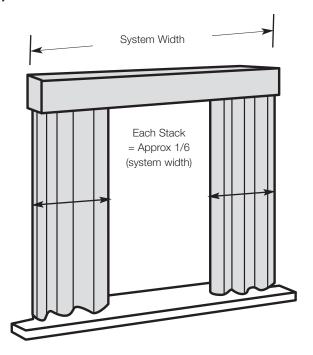
Measuring for complete window reveal

- To completely reveal a window when the drape is open the stack back on the drape must be considered. Consult stack diagrams for stack back dimensions.
- In addition be aware that depending on the construction and material the drapery will be slightly wider at the bottom than at the top.

left or right stack



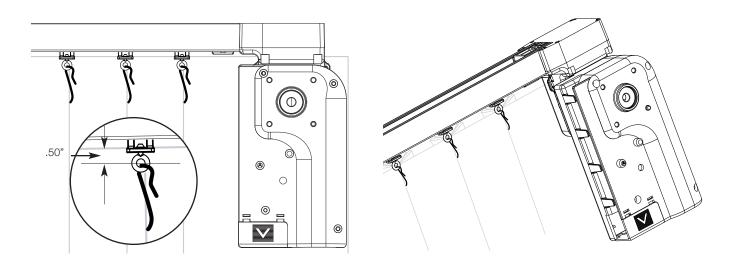
split-draw center stack



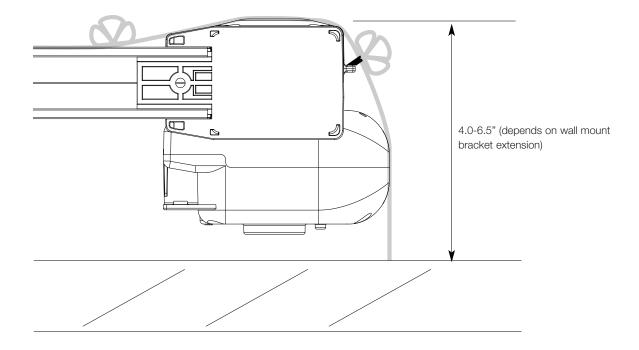
hanging fabric

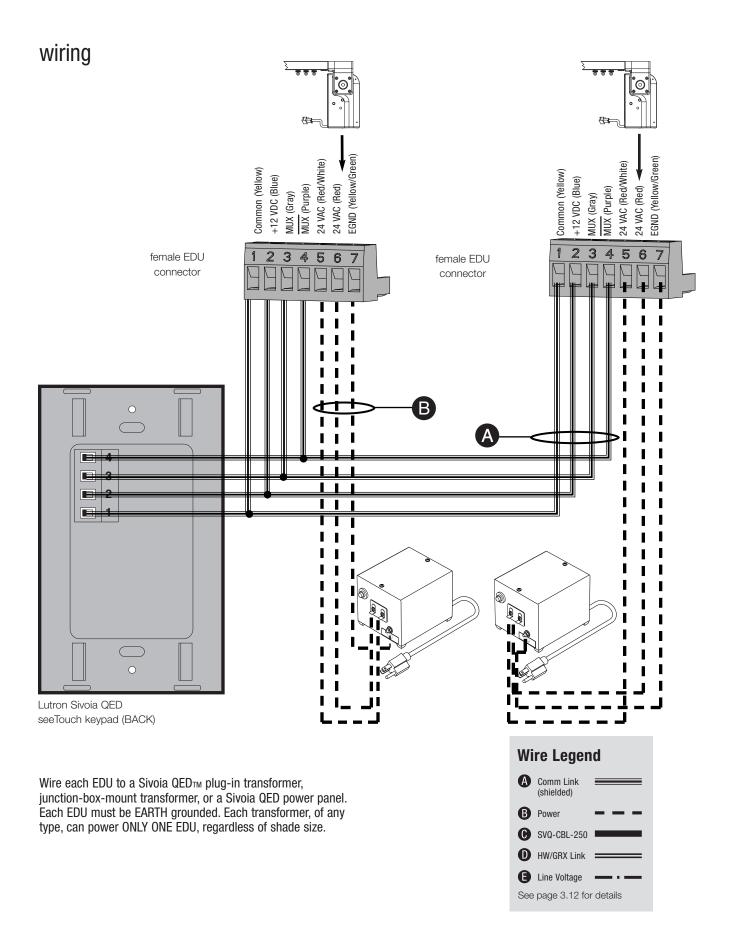
drapery hook setting

For the best system performance, a drapery hook setting of 1/2 in should be used. This allows the system to operate with minimal noise.



drapery fabric return

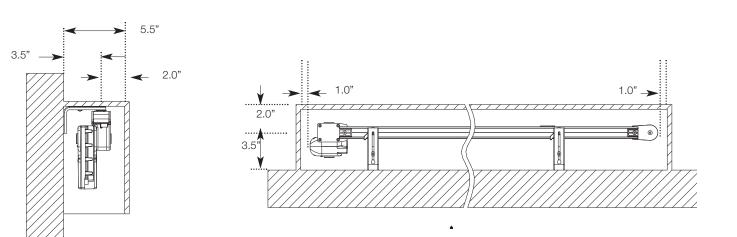




system dimensions

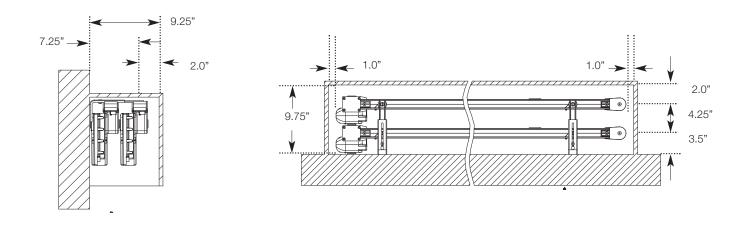
Single drapery track

 It is important to maintain enough clearance between the track and the inside face of the top treatment or ceiling recess to allow the fabric to move freely within the top treatment. All measurements shown below are minimums.



Dual-Mounted drapery track

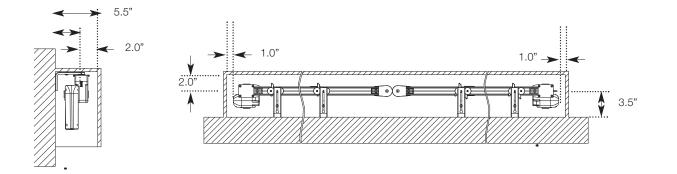
• Sivoia QED tracks can be used for a combination sheer/blackout treatment. These systems will require more clearance than a single track system.



system dimensions

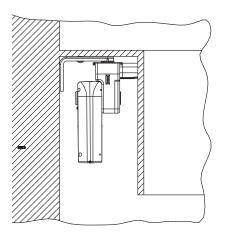
Tandem Two-Drive Drapery Track System

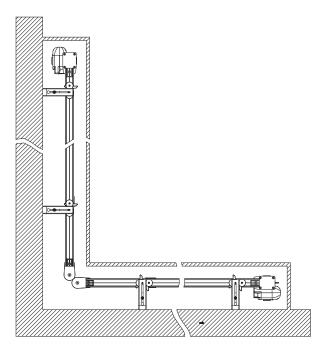
 Unlike standard motorized drape systems the Sivoia QED™ EDU controls the speed of your draperies with extreme precision. This allows two independent EDUs to be used to create a center-open drapery. All measurements shown below are minimums.



Drapery Track Corner Application Sivoia QED drapery systems can be used in corner

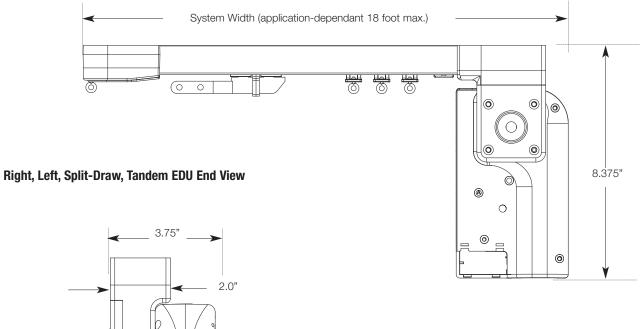
applications.



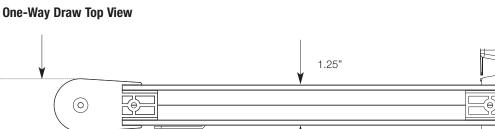


system dimensions

One-way Draw Side View







1.625"

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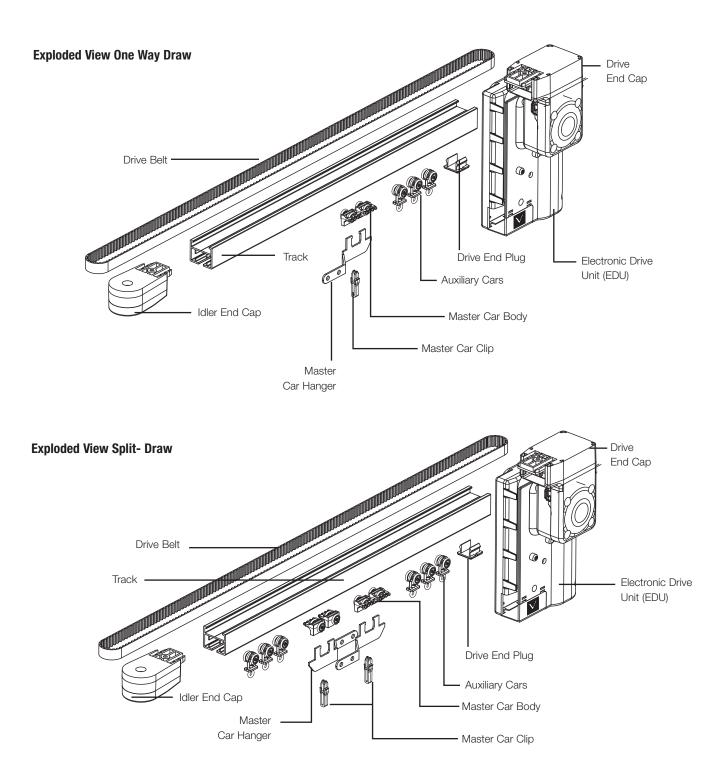
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2.0"

components



Notes	

6 Roman shades

Notes	

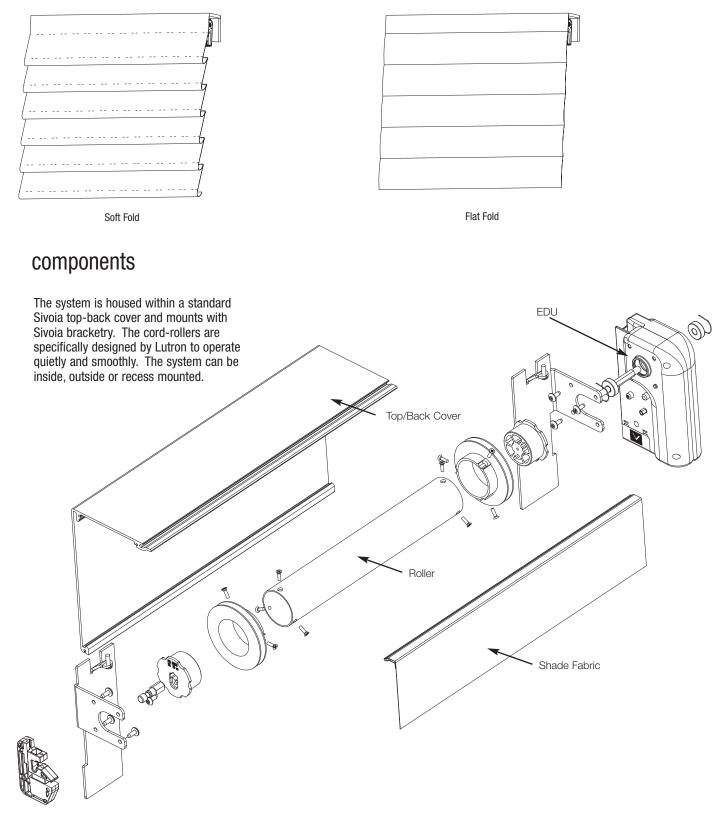
6.1

UTRON

ROMAN SHADES

system overview

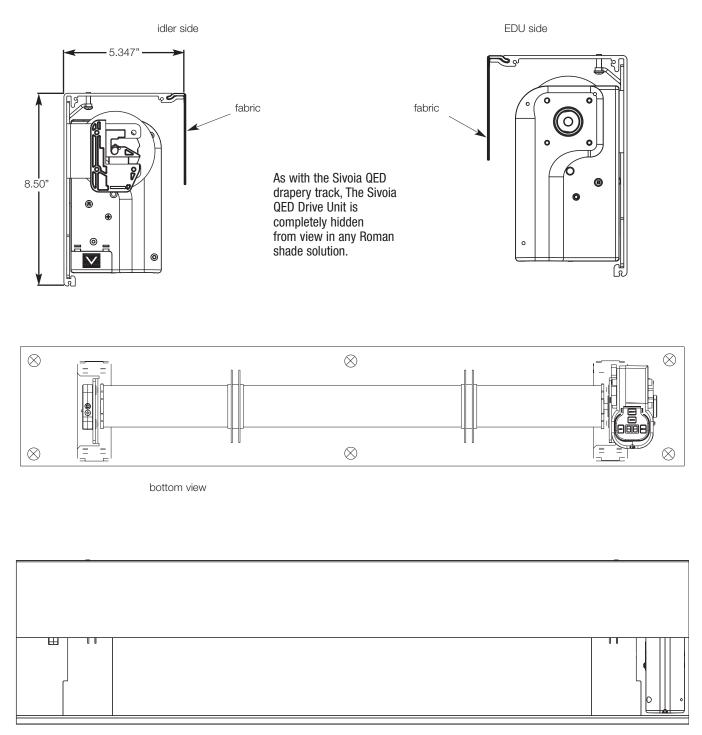
Sivoia QED_{TM} Roman shades can be configured using two styles of pleats: soft fold and flat-fold. The specifier can choose the height of the pleats for each application.



6.2

dimensions

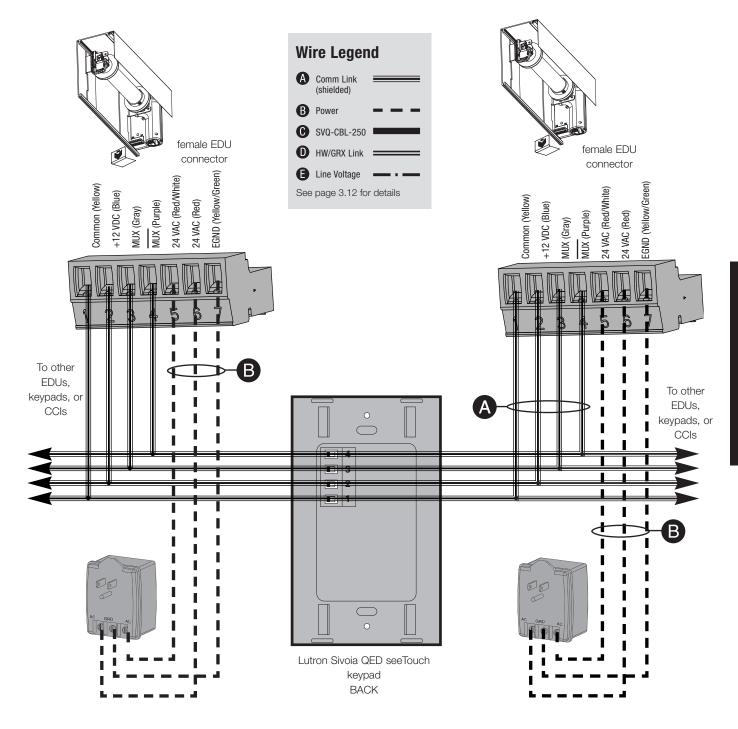
ROMAN SHADES



elevation

wiring

- Every keypad, CCI, and EDU is connected by the Sivoia QED™ Communication Link.
- Wire each EDU to a Sivoia QED plug-in transformer, junctionbox-mount transformer, or a Sivoia QED power panel. Each EDU must be EARTH grounded.
- Each transformer, of any type, can power ONLY ONE EDU, regardless of shade size.



Notes	

ROMAN SHADES

7 troubleshooting

7

Notes			

②LUTRON

troubleshooting

EDU will not move

· EDU is not powered - check EDU power

Shade fabric is caught on something – Check that shade fabric is not caught on something or binding

· EDU not assigned to keypad, IR transmitter, or CCI

EDU does not fully open or fully close

· Presets have been set incorrectly - try using raise and lower buttons

· Limits have been set incorrectly - refer to "Setting Limits"

Shade fabric is caught on something – free shade

Shade moves up when pressing lower button, and down when pressing raise button

· Open and close limits have been reversed - refer to "setting limits"

Fabric not level

· Adjust using level adjustment screw

· Check that brackets are mounted level

· Check that fabric is tracking correctly on the shade tube

Fabric not centered over window

· Center shade using center adjustment

· Check that brackets are centered

· Check that fabric is tracking correctly on the tube

Shade does not move smoothly

· Check for binding of shade fabric on side channels, fascia, etc

· Check fabric tracking

Keypad LEDs are off, keypad will not control any shade

· Check that keypad is powered

②LUTRON

troubleshooting

Keypad LEDs are lit, but keypad will not operate any shade

• All presets have been set to same height - try using raise/lower buttons at keypad

Communications Link or IR not wired to EDU – check wiring

· EDU has been un-assigned from keypad - refer to assignment section

Keypads will not operate shade, IR works properly

· Check that keypad is powered

· Keypad not wired correctly - check wiring

· EDU has been un-assigned from keypad. Refer to assignment section

Presets are all programmed to same location, try using raise/lower at keypad

Can not store presets

· Preset lock enabled

· Presets are being accidentally re-programmed -set presets, enable preset lock

Keypad does not operate all the shades it is assigned to

· EDU has been unassigned from keypad- refer to assignment section

· EDU has all presets set to same height, try raise/lower

· EDU is not wired correctly

· Keypad is not wired correctly

IR controls will not operate shade, keypads work properly

· IR transmitter does not have line of site to IR receiver

Out of range – move to within 30 feet of IR receiver

· EDU has been unassigned to IR receiver - refer to assignment section

· IR receiver not properly installed on EDU

Shades in a room move on their own

· EDUs are assigned to control in another room- refer to assignment section

Lutron Shading Solutions by VIMCO

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