

HomeWorks[®] QS

Save Energy with Unparalleled Total Home Control

Design & Style Guide



Introduction

HomeWorks® QS provides control of lights, shades, temperature, and appliances for total home control—**all while saving energy**. With this system, your clients will experience improved ambiance, convenience, comfort, and security throughout their home at the touch of a button.

HomeWorks QS systems are sold and installed by a professional network of qualified Residential Systems Providers (RSPs). These technology experts also provide design, programming, and project management assistance.

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You can count on HomeWorks QS for **energy savings without sacrifice.**

HomeWorks® QS System Benefits

Enhance Ambiance

More than simply on and off

- You can create just the right light for any activity—such as reading, relaxing, watching a movie, or playing with the kids—all while saving energy.
- You can set moods in specific areas of your home with soft lighting.
- Use Sivoia® QS window treatments to enhance your décor while silently controlling daylight or providing privacy at night.



Increase Security and Safety

Control whether you're home or away

- With automated exterior lighting, you won't have to leave lights on all day, yet you'll never have to come home to a dark house.
- Enhance the security system by integrating it with HomeWorks QS. If the security system is triggered, outside lights flash to draw attention.
- The system can be programmed to play back real-life lighting events, so a home looks lived-in even while you're away.



Add Convenience

Let the system do the work for you

- Control lights, shades, and temperature from any location, with hand-held remotes, touchscreens, and mobile devices.
- Occupancy sensors automatically turn on lights when you enter a room, then turn them off when the room is empty.
- Use a favorite "Goodnight" button to put the entire home into the perfect energy-saving settings at night.



Lutron Home Control+ for the iPad® app



HomeWorks® QS System Benefits

Control Daylight

Use the sun to your advantage

- Shades enhance privacy—and convert harsh glare into soft, pleasing light—while preserving your view.
- Shades protect furnishings and artwork from harsh UV rays.
- Shades can reduce solar heat gain in summer and harvest it in winter—reducing energy used by the HVAC.
- Blackout fabrics can darken any room to transform it into a real theater experience.



Complement Aesthetics

Add elegance and style

- Complement your décor with system controls available in 50 colors and finishes.
- Complete your design with matching accessories including receptacles, phone jacks, cable jacks, and more.
- Choose from a variety of shade styles and fabrics, so you can add a tasteful finishing touch to any room.



Architectural
seeTouch® keypad



Receptacle with
Architectural wallplate

Expand Integration

For increased control

- HomeWorks® QS can integrate with other home systems for convenient control of HVAC, sprinklers, audio/video equipment, and more.
- Combine keypads with other manufacturers' controls to maintain consistent aesthetics and to eliminate wall clutter.
- HomeWorks QS can also integrate with mobile devices so you can adjust lights, shades, and HVAC—and save energy—while you're away.



seeTouch® keypads



MDK-C5 keypad
by Russound with
seeTouch keypad



HomeWorks® QS System Benefits

Minimize Wall Clutter

Clean and simple control

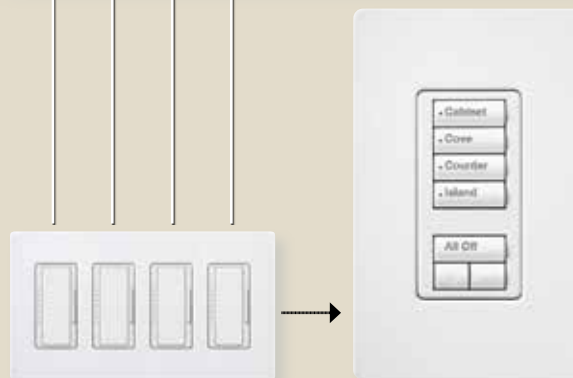
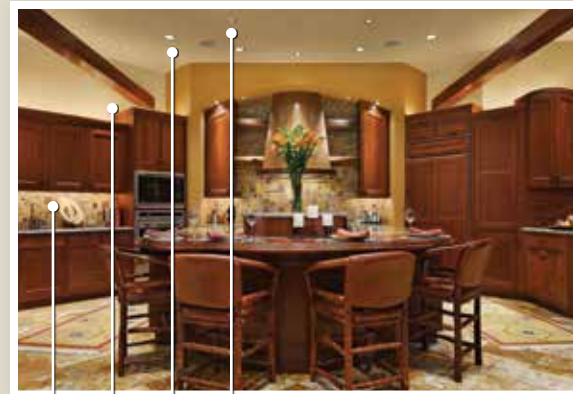
Many rooms have multiple zones of lighting in order to create beautiful layers of light balanced with functional task lighting.

The kitchen in the photo has four zones of light:

- Under-cabinet lights
- Cove lights
- Counter downlights
- Island downlights

Because each of these zones would normally be controlled by a local dimmer or switch, four controls would be needed on the wall.

A keypad offers a clean solution to multiple controls, as well as additional functionality—such as turning lights on with one button press.



Dimmers

Keypad

Quantum® System Architecture

The power of a commercial total building system

Using the Quantum architecture in HomeWorks QS provides powerful control over daylight and electric light, from small systems through large applications.

HomeWorks QS provides powerful design, programming, and documentation software to make your project workflow easier and faster.

System Reliability with Clear Connect®

Lutron's Clear Connect RF Technology is highly reliable and ensures seamless communication between our system components.



The robust architecture of Quantum can control thousands of lights and shades—as it does in The New York Times headquarters.



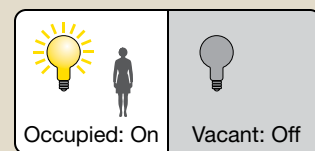
Energy-saving Strategies

Energy Savings

A responsible choice

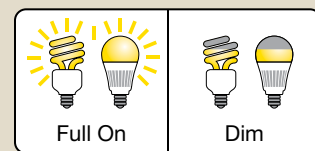
Every time you dim your lights you save energy. Dim them by 25%, for example, and you'll save 20% energy. The more you dim, the more you save.

In addition to dimming, HomeWorks® QS system provides many other energy-saving benefits.



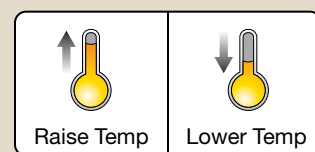
Occupancy Sensing

Sensors turn lights and standby power from electronic appliances off when a person leaves the space.



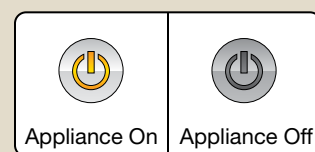
Energy Efficient Light Control

Our Ivalo® Finiré® LED recessed light ensures compatibility between LED fixtures, drivers, and controls, while guaranteeing smooth, flicker-free dimming from 100% to 1%. And our phase-adaptive dimmer can control a variety of load types, including LEDs.



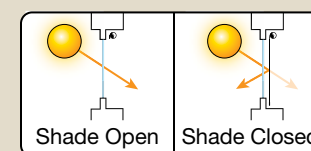
Temperature Control

Adjust heating and cooling systems any time of day, saving up to 16% or more of your heating and cooling energy usage.¹



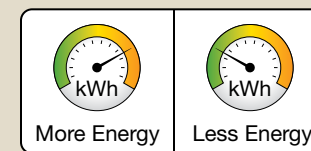
Appliance Control

Turning off standby power to certain appliances can save 10% of a typical home's electricity use.²



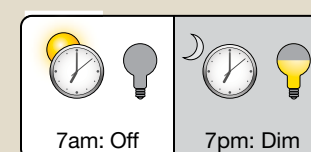
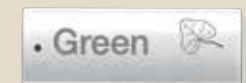
Shades

Controllable window shades can reduce heating and cooling costs by blocking the sun's rays in summer or letting them in during colder months.



"Green" Button

Use the "Green" button to reduce energy use from lights, shades, and heating/cooling systems with a single touch.



Intelligent Timeclock

The timeclock can be programmed to automatically dim or turn off lights in spaces where lights are often inadvertently left on.



"All Off" Button

Place an "All Off" button near an entry to conveniently turn off lights throughout the home with a single touch.



¹ www.energystar.gov

² www.standby.lbl.gov

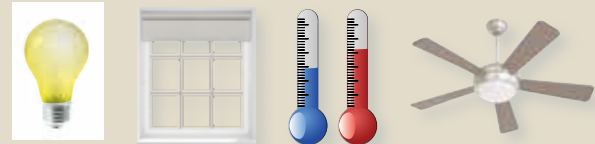
What Does the System Do?

Types of Triggers

Types of Actions



A keypad button is pressed



Light levels are set, shades and temperature adjust, fan turns on



Occupancy sensor detects room is vacant



Laundry room lights turn off



System timeclock reaches 7:00 a.m.



Landscape lighting turns off, shades open to softly awaken you, temperature is adjusted to day setpoint



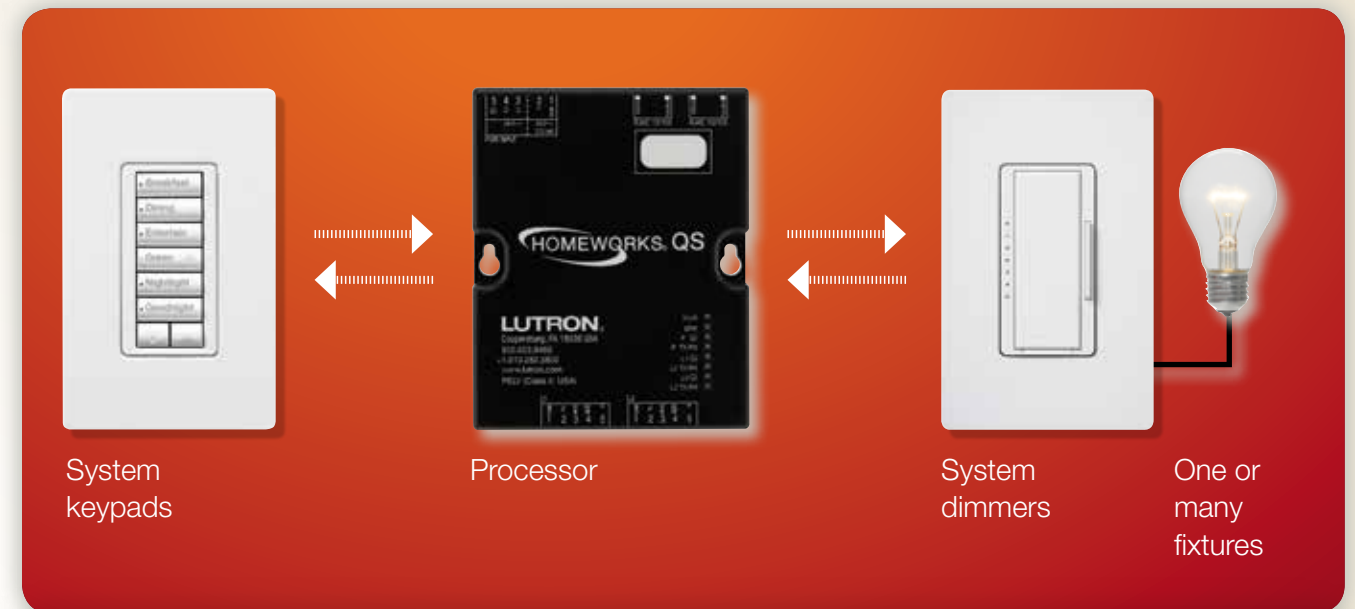
Home theater controlled by iPad®



Theater lights turn off, shades close, projector starts, sound system turns on

Basic Communication Flow

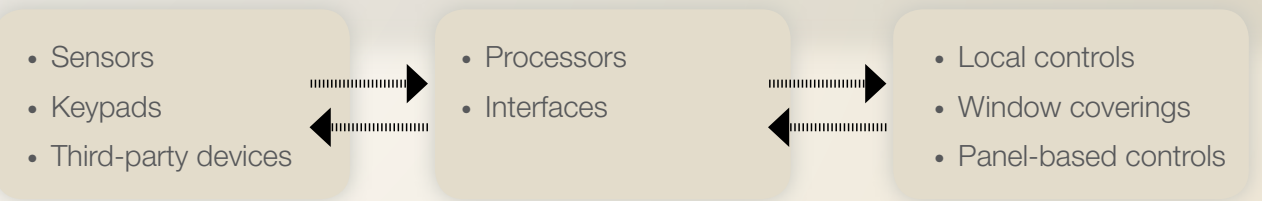
- 1 **Trigger:** button pressed
- 2 **Processing:** programming analyzed
- 3 **Action:** dimmer turns on light



HomeWorks® QS has many different types of triggers that cause things to happen.

The processor is the brain of the system. When a trigger's message is received it decides what should happen based on its programming.

The actions of HomeWorks QS are connected to and control the home's lights, shades, HVAC, and more to produce the desired result.



Component Overview

Keypads



Dynamic Keypad
p. 30



Architrave™
p. 31



Architectural seeTouch®
p. 32



Designer seeTouch
p. 32



Signature Series™
p. 32



Hybrid seeTouch
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Pico® Wireless Control
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seeTouch Tabletop Keypad
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Car Visor Control
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Sensors



Ceiling-mounted Occupancy/Vacancy Sensor
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Wall-mounted Occupancy/Vacancy Sensor
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Third-party Devices



iPhone® and iPad®
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Android™
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Touch Panel Control
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Temperature Controls



TouchPRO Wireless® Thermostat
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seeTemp® Temperature Display
p. 39

Processor and Interfaces



Processor
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Hybrid Repeater
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RS-232 Interface
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Car Visor Receiver
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I/O Interface
p. 53



HVAC Controller
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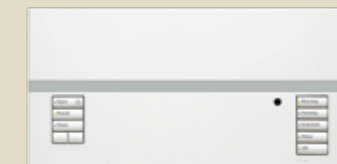
Local Controls



Maestro® Dimmer
p. 34



Maestro Switch
p. 34



GRAFIK Eye® QS Room Control
p. 40



Lamp Dimmer
p. 38



Appliance Module
p. 38

Window Coverings



Roller Shade
p. 42



Horizontal Sheer Blinds
p. 43



Venetian Blind
p. 43



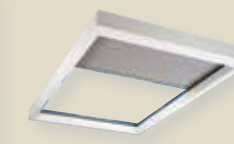
Roman Shade
p. 44



Drapery Tracks
p. 44



Kirbé® Vertical Drapery System
p. 44



Tensioned Shade
p. 45

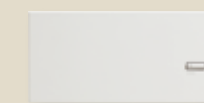


Honeycomb Shade
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Power Panels



RF Softswitch® Module
p. 52



Wallbox Power Module
p. 52



Specification Grade Panel
p. 52



Remote Dimming Panel
p. 52



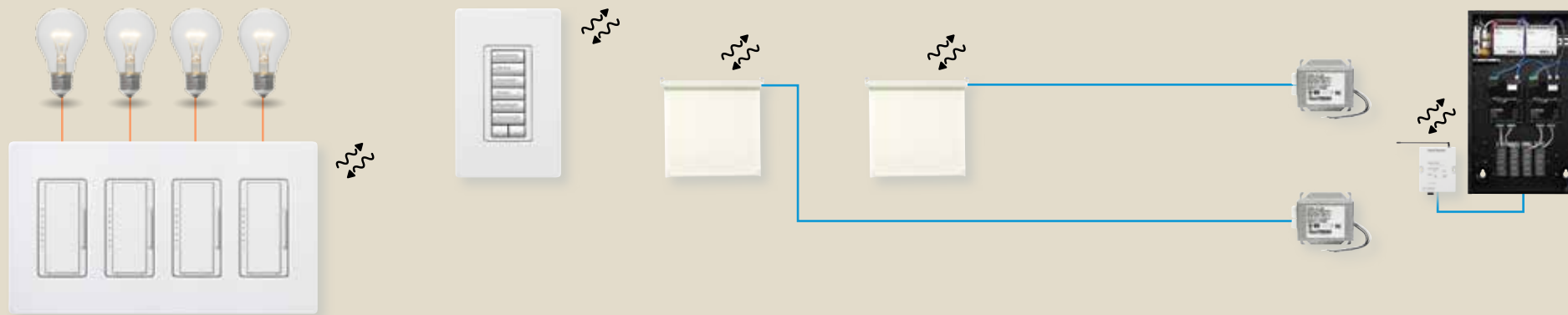
QS Power Panel
p. 53

Understanding Design Options

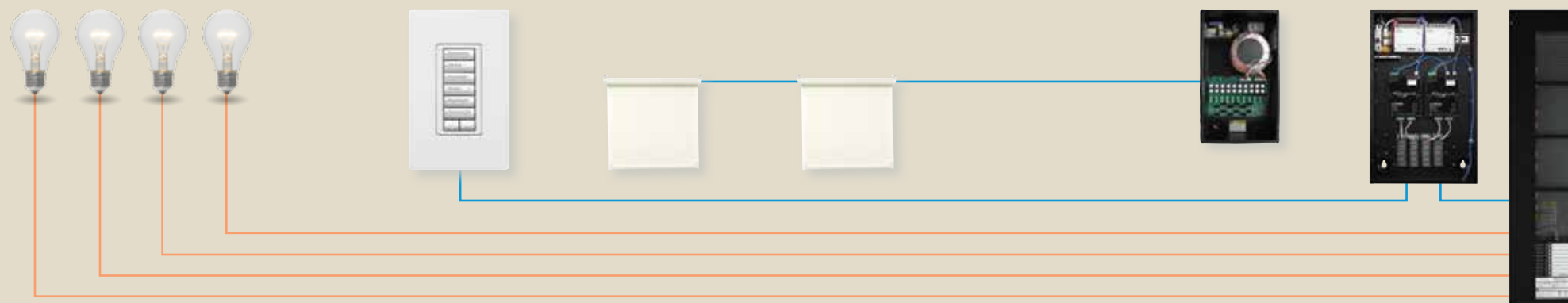
HomeWorks® QS offers a balance between reducing controls on the wall and simple installation. Localized design can replace switches in a room with system dimmers and switches. Centralized design minimizes the controls on the wall by using dimming power panels located out of sight.

In-room Controls, Lights, and Shades

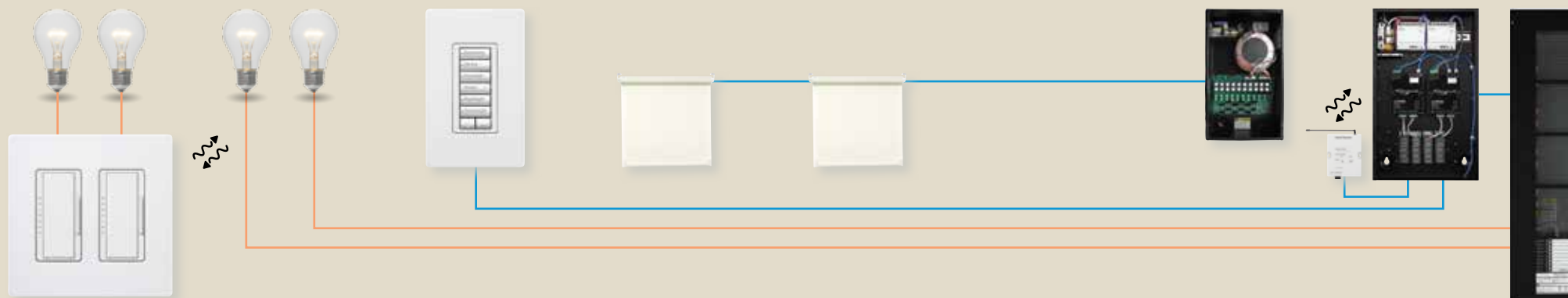
Localized



Centralized



Hybrid



Back Room Equipment

System Design

Localized

- Dimmers and switches provide familiar control and operation in every room.
- Keypads at convenient control locations adjust lights and shades throughout the home.
- Using standard line-voltage wiring, a whole-home light control system can be added to new or existing homes.

Centralized

- Remote dimming panels power all home lighting rather than local dimmers and switches.
- Keypad-only design minimizes wall clutter and provides maximum programming flexibility.
- This design is well-suited for new construction or major renovation.

Hybrid

- Remote dimming panels power lighting in rooms with multiple lighting zones.
- Keypads minimize wall clutter and provide maximum programming flexibility in these rooms.
- Local dimmers provide simple, intuitive control in kids' rooms and guest areas, with fewer lights per room.

System Wiring and Communication

— line voltage wiring — low voltage wiring

Clear Connect® RF communication

Selecting a Design Option

A project's construction type plays a major role in determining the system design most suitable to the project. When beginning to specify a system, start with the type of construction for the project.

The following pages explain the types of construction and the system designs that are appropriate to each.

New Construction

- System can be planned before construction
- Wiring can be run to power lights and shades
- Maximum flexibility in design

Renovation

- If walls are open, the design can be planned into the project
- Wiring can be run to power lights and shades
- May use existing or new wiring to suit customer needs

Retrofit

- System is being installed in existing home
- Walls and interior finishes need to stay in place
- Minimal dust, dirt and time

Type of Construction

System Design Options

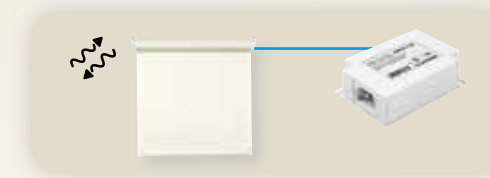
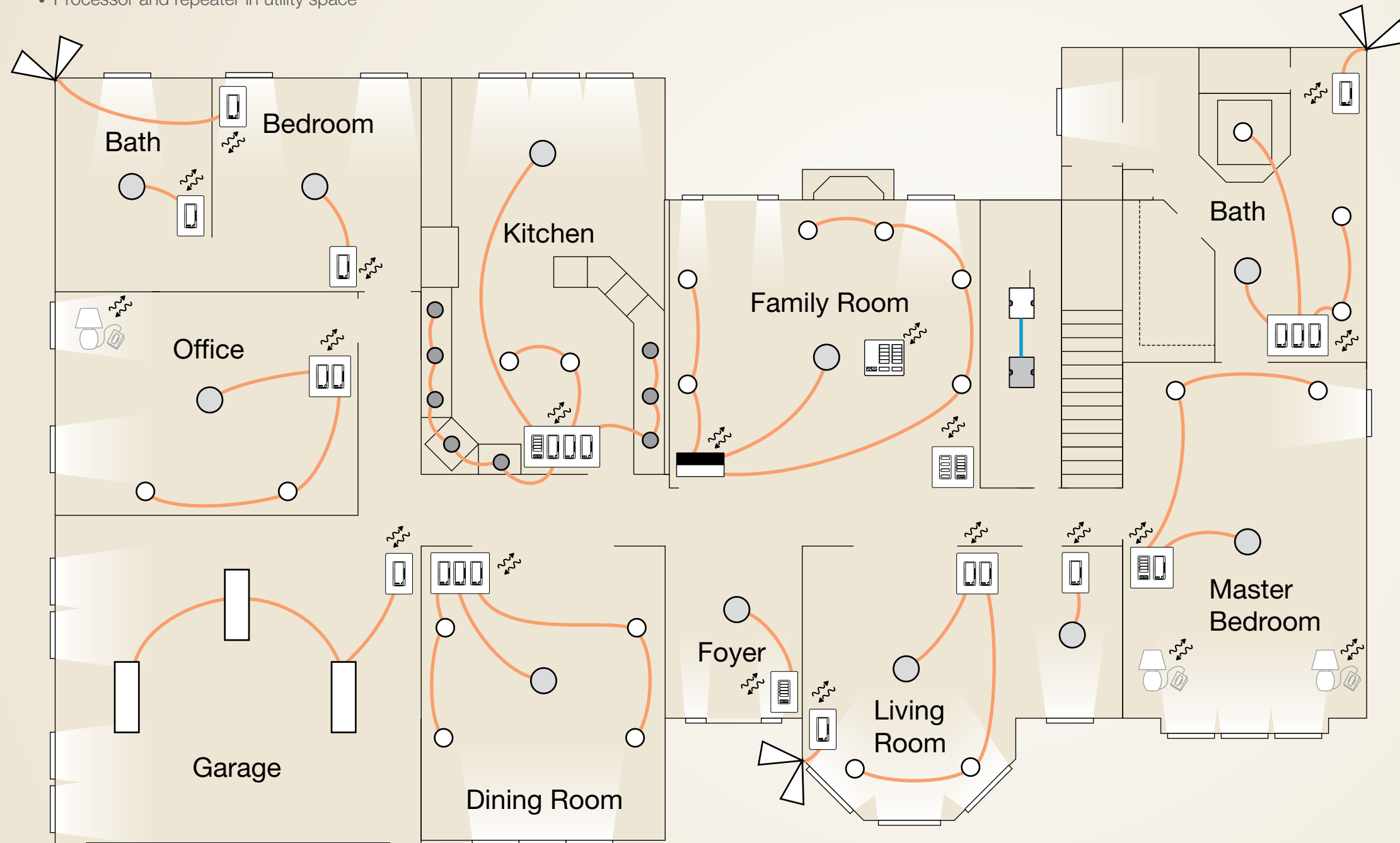
	Localized <i>see page 18</i>	Centralized <i>see page 20</i>	Hybrid <i>see page 22</i>
New Construction	YES , uses standard wiring practice	YES , wiring can be planned and run to panels	YES , wiring can be planned and run to panels where desired
Renovation	YES , uses the existing wiring	YES , if new load wiring is possible NO , if existing load wiring will be used	YES , if some new load wiring is possible and some existing load wiring will be used
Retrofit	YES , uses the existing wiring	NO , if running new wiring is difficult or not possible	NO , if running new wiring is difficult or not possible



Selecting a Design Option

Localized Design









- Switches are replaced with system dimmers or switches
- Table and floor lamps controlled by lamp dimmers
- Tabletop and wall-mounted hybrid keypads add whole-home control
- Processor and repeater in utility space








RF shades are powered locally.

Key




System Components

- | | | | |
|---|----------------------|---|--------------------|
|  | Dimmer |  | GRAFIK Eye® QS |
|  | Tabletop Lamp Dimmer |  | Hybrid Repeater |
|  | Wall-mounted Keypad |  | Processor |
|  | Tabletop Keypad |  | TouchPRO® Wireless |

Lights

- | | | | |
|---|----------------------|---|---------------------|
|  | Fluorescent Fixture |  | Pendant |
|  | Exterior Flood Light |  | Recessed Downlight |
| | |  | Under-cabinet Light |

System Wiring and Communication

- | | |
|---|---------------------------------|
|  | line voltage wiring |
|  | low voltage wiring |
|  | Clear Connect® RF communication |

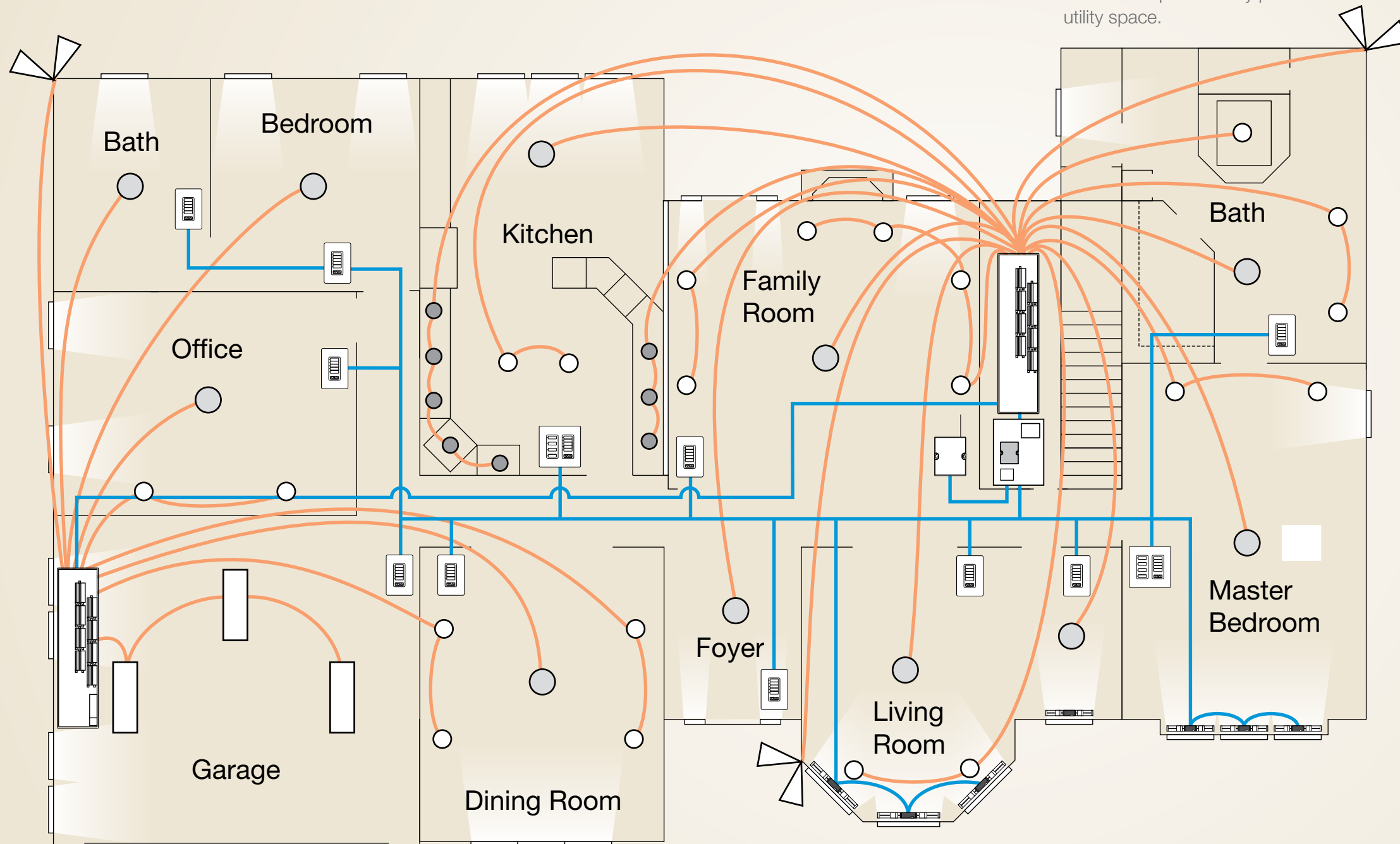
Selecting a Design Option

Centralized Design

- All lights and shades are powered by remote power panels
- Wired keypads provide control in rooms as well as whole-home control
- Wall clutter is minimized

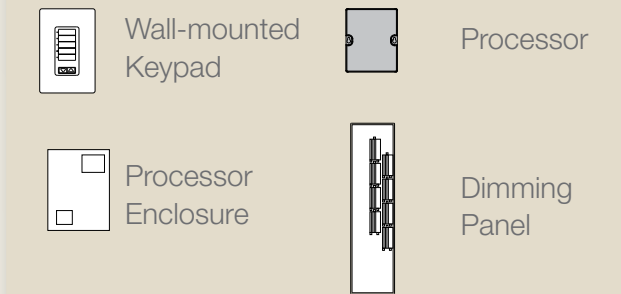


Shades are powered by panels in utility space.

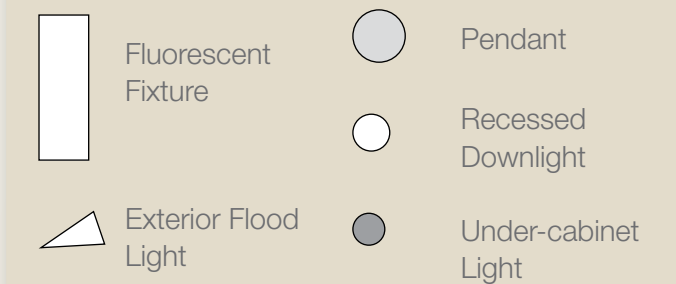


Key

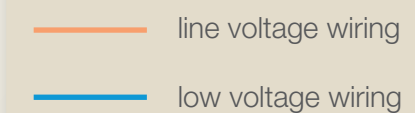
System Components



Lights



System Wiring and Communication



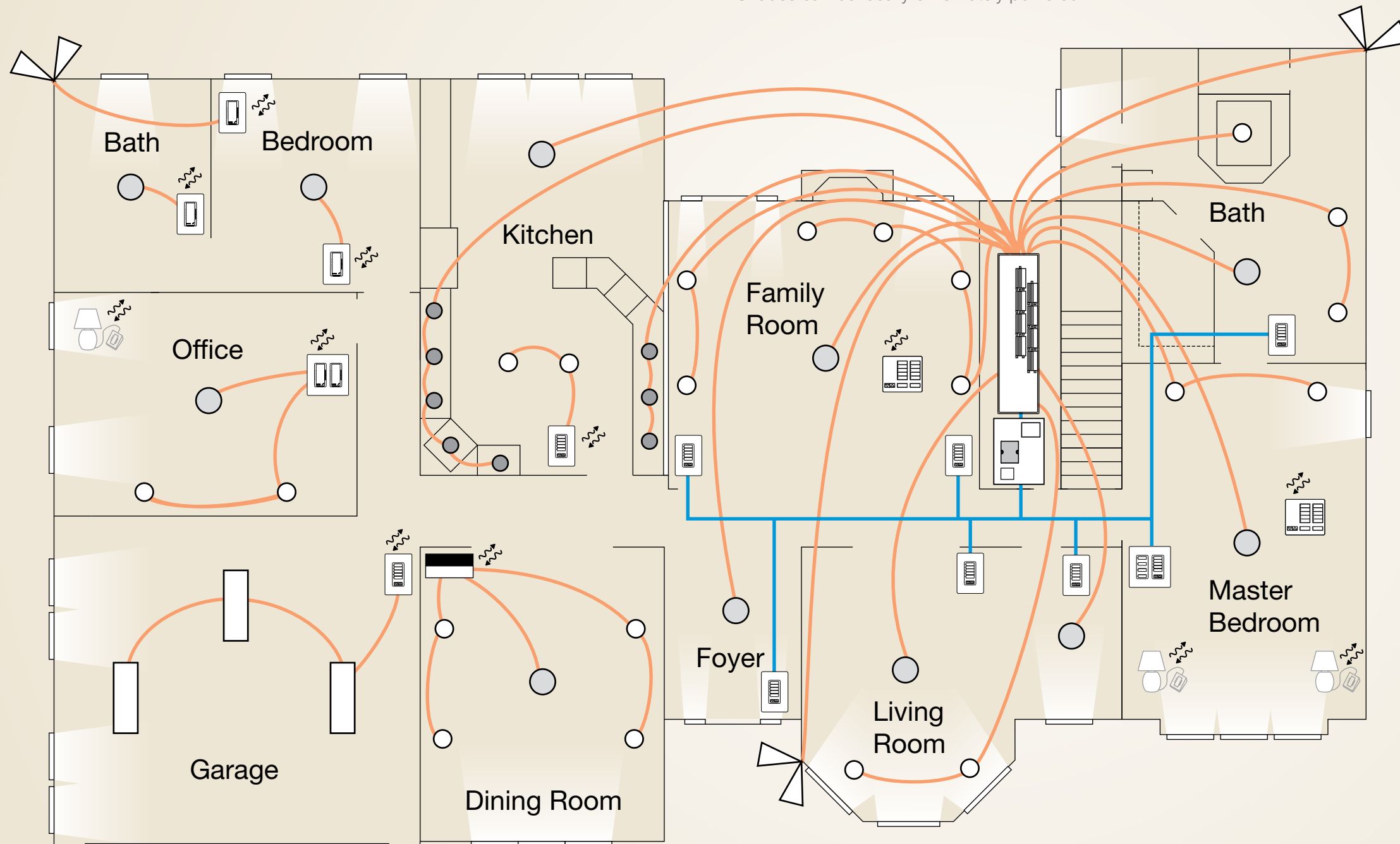
Selecting a Design Option

Hybrid Design

- Centralized design in rooms with many lights
- Keypads provide control in these rooms and whole-home control
- Local controls in guest rooms, powder room, etc.



Shades can be locally or remotely powered.



Key

System Components

	Dimmer		GRAFIK Eye® QS
	Tabletop Lamp Dimmer		Hybrid Repeater
	Wall-mounted Keypad		Processor
	Tabletop Keypad		Dimming Panel
	Processor Enclosure		TouchPRO® Wireless

Lights

	Fluorescent Fixture		Pendant
	Exterior Flood Light		Recessed Downlight
			Under-cabinet Light

System Wiring and Communication

	line voltage wiring
	low voltage wiring
	Clear Connect® RF communication

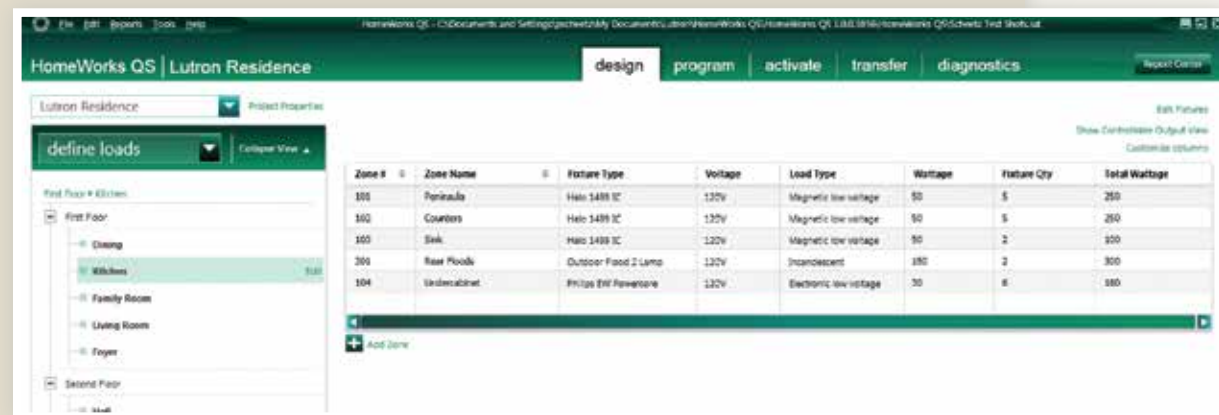
Elements of System Design

The architectural goals of your vision for the project are documented to form the building blocks of a system design. An authorized Lutron Residential Systems Provider can help guide you through these design details.

1 Determine Your Lighting Plan

Decide the location and type of fixtures to be installed.

- A reflected ceiling plan shows fixture locations.
- A fixture schedule shows manufacturer, load type, and wattage.
- The combined details can be documented in a spreadsheet or directly in the HomeWorks® QS design tool.



Zone #	Zone Name	Fixture Type	Voltage	Load Type	Wattage	Fixture Qty	Total Wattage
101	Pendants	Halo 1489 IC	120V	Magnetic low voltage	50	5	250
102	Counters	Halo 1489 IC	120V	Magnetic low voltage	50	5	250
103	Isk.	Halo 1489 IC	120V	Magnetic low voltage	50	2	100
200	Rear Floods	Outdoor Flood 2 Lamp	120V	Incandescent	150	2	300
104	Undercabinet	Profile 817 Pendants	120V	Electronic low voltage	30	6	180

2 Include Daylight Control in Your Plan

Decide the location and type of controllable window treatments to be installed.

- Roller shades, drapery track, Kirbé® vertical drapery, skylight shades, insulating honeycomb shades, Venetian blinds, horizontal sheer blinds, and Roman shades are available.
- Determine window dimensions, pocket configuration, millwork, and trim.
- The shades to be controlled can be documented in a spreadsheet or in the HomeWorks QS design tool.



3 Consider Control Station Locations and Integration

Electrical and building codes provide a starting point for your control stations.

- Most codes require an entrance control to each room.
- A dimmer or switch can control a zone in a room.
- A keypad can control many zones in a room, or throughout the home.
- Control stations can be documented on the plan and entered in the HomeWorks® QS design tool.
- Add security, A/V, and temperature integration



4 Add Convenience and Expand Functionality

Complete the design with tabletop keypads, lamp dimmers, sensors, and plug-in appliance control modules.

- Tabletop keypads provide control at the bedside or countertop locations.
- Tabletop lamp dimmers add system control to your table and floor lamps.
- Appliance modules can reduce standby current draw from home electronics.
- Tabletop controls and appliance modules can be documented on the plan and entered in the HomeWorks QS design tool.



5 Plan Your Panel Locations

Allow space for back room equipment in utility spaces.

- Centralized design reduces wall clutter by routing load wiring to remote dimming panels.
- Controllable window treatments are driven by power panels.
- Wiring for power and control can be tailored to reduce wire and labor costs.





Product Reference Guide Contents

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A HomeWorks® QS system includes a wide range of component types. This product reference guide provides an overview of the available products.

Color, finish, and aesthetic options are illustrated, along with information on the features of the control types and styles.

You can find more information, along with detailed specifications, at www.lutron.com/homeworksqqs.

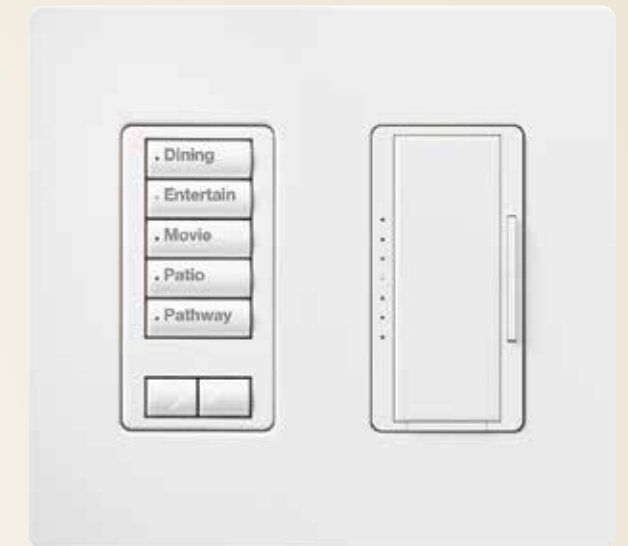
Choose Your Style

Many of the HomeWorks® QS products, including seeTouch® keypads and matching accessories, are available in either Architectural or Designer styles. See page 28 for colors and finishes.



Architectural

The Architectural style is defined by beveled edges and precise corners on the wallplates. Architectural controls are available in a variety of Architectural matte and metal finishes. Or, for that perfect finishing touch, we can custom match a color or finish of your choice.



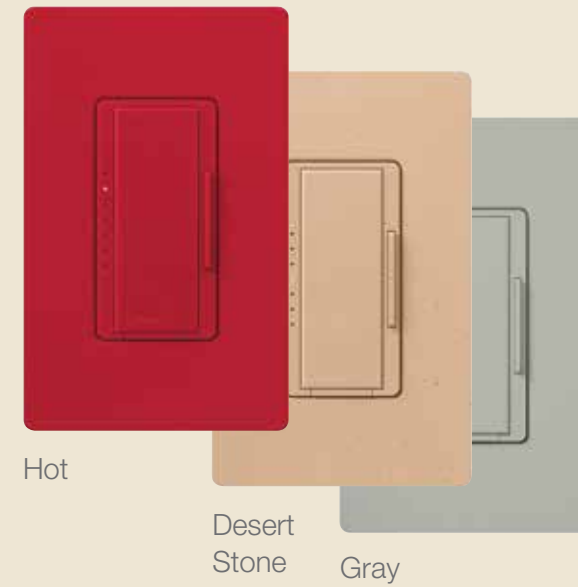
Designer

The Designer style is characterized by rounded corners and a designer opening wallplate. Other products such as audio controls often use the same designer opening, creating a harmonious look on the wall. Designer controls are available in a variety of gloss colors and Satin Colors®.

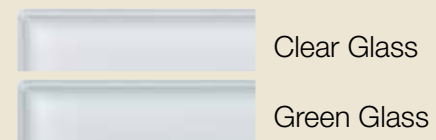
Colors and Finishes

Stylish Colors and Finishes

HomeWorks® QS products come in a variety of colors and finishes to complement the design style of each room in the home. In addition to the colors and finishes on these pages, we can custom paint Architectural wallplates or match a custom metal finish. Contact Lutron for more information about custom colors and finishes.



Glass Faceplates



Green Glass
Black Anodized Aluminum
Bright Brass

Hot
Desert Stone
Gray

Architectural Matte



Architectural Metals



Satin Colors®

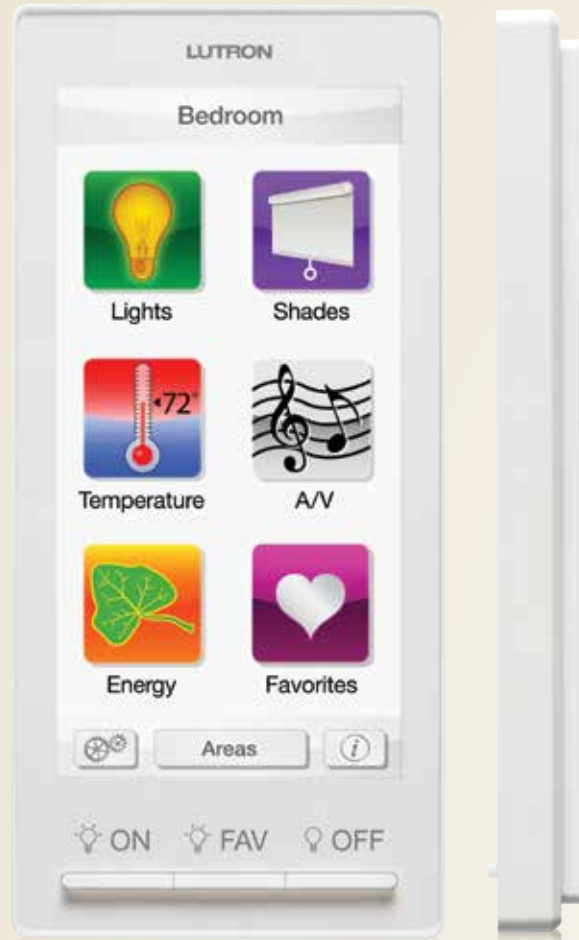


Designer Gloss

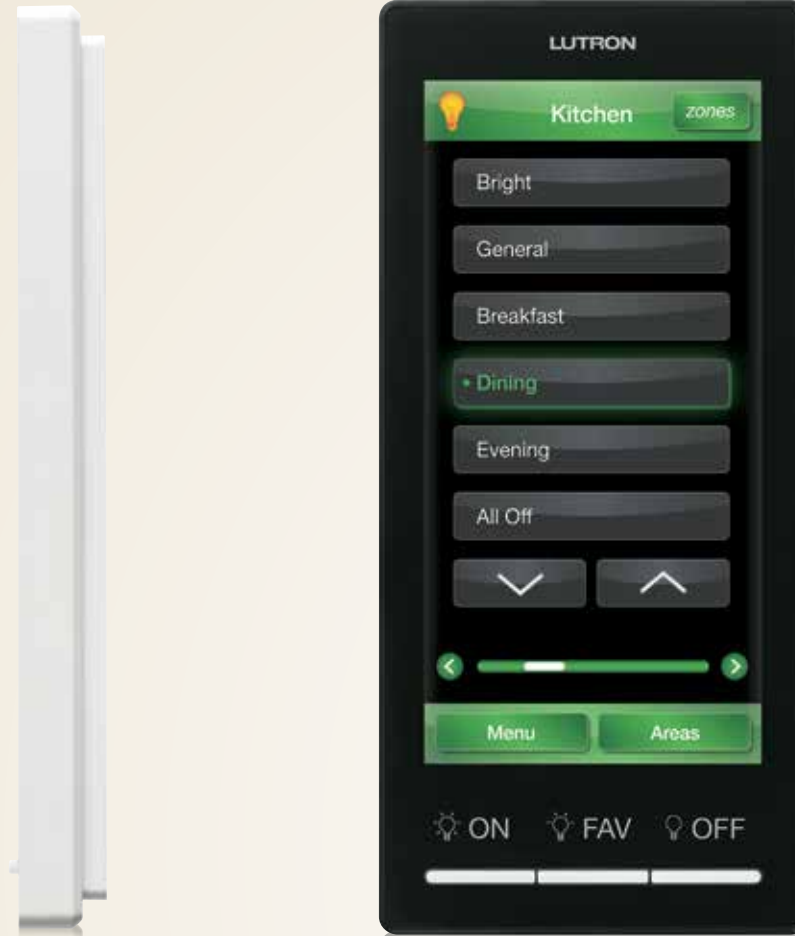


Dynamic Keypad

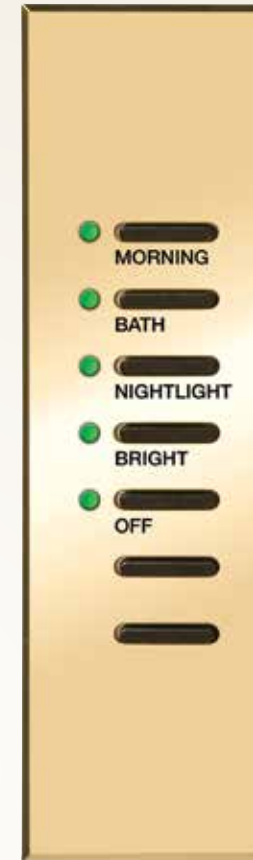
Architrave™ Keypad



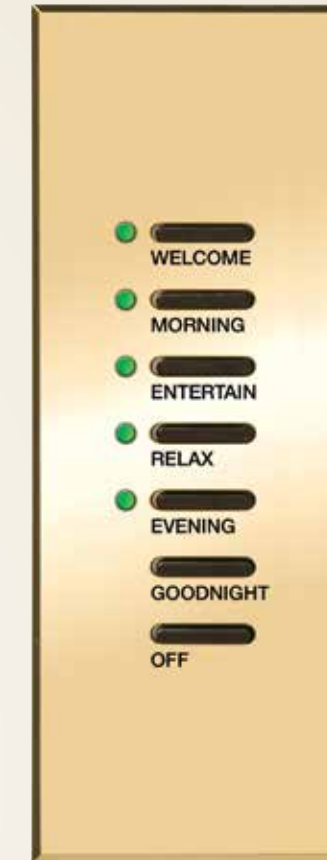
Dynamic Keypad



Profile



Architrave Keypad
Door Narrow



Architrave Keypad
Door Wide

The dynamic keypad allows simple, intuitive control of lights, shades, HVAC, and audio/video equipment from a single location. The screen provides a rich user experience and flexible control for a single room or an entire home.

- Use individual pages for simple control of lighting, shades, and temperature in rooms throughout the home.
- Create or modify on-screen button labels easily.
- Three hard buttons provide control of frequently used lighting functions.
- QS wired communication or Clear Connect® RF technology ensures reliable system control.
- Mounts in a custom backbox (included).
- 5 1/8" high x 2 3/8" wide; 1/2" side profile
- Screen size is 4.2" diagonal.
- Available in white or black

The Architrave style keypad is sleek and compact. It fits where other keypads won't, including door jambs and other millwork.

Small LEDs beside each button show the status of the scene or lighting zone programmed to that button.

Keypads feature two buttons without LEDs, typically used as "all on" and "all off" function buttons.

Keypads may be programmed to perform any one of many different functions, including:

- Turning individual scenes/zones on or off
- Turning selected scenes/zones on or off as a group
- Raising or lowering selected scenes/zones as a group



Architectural Keypad without insert

Architectural Keypad with insert

Designer Keypad

Available Button Configurations

All configurations are available in Architectural keypads without insert (shown), Architectural keypads with insert, and Designer keypads.



W1B

W2BS

W3BS

W3BSRL

W4BS



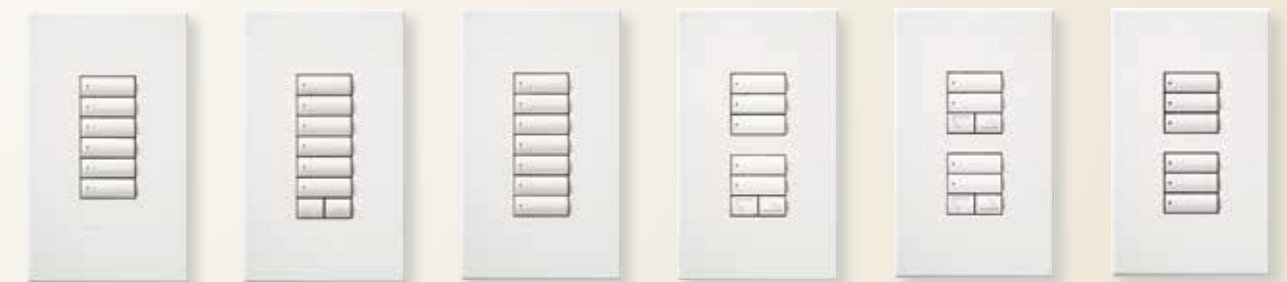
W3S

W4S

W5B

W5BRL

W5BIR



W6B

W6BRL

W7B

W1RLD

W2RLD

W3BD

seeTouch keypads provide attractive and intuitive control for your clients and minimize wall clutter by eliminating the need for several switches.

Available in both Architectural and Designer styles; see page 28 for a complete list of colors.

Signature Series™ Keypad

- Features a narrow architectural aesthetic with multiple button configurations
- Available in architectural matte or metal finishes



seeTouch Buttons

- Large, easy-to-use, rounded buttons are angled upward for easy readability
- Various button configurations offer flexibility
- Each button is programmed to meet the needs of the homeowner
- Custom engraving is included



Backlit Text Backlit Buttons
(Shown in Dark Environment)

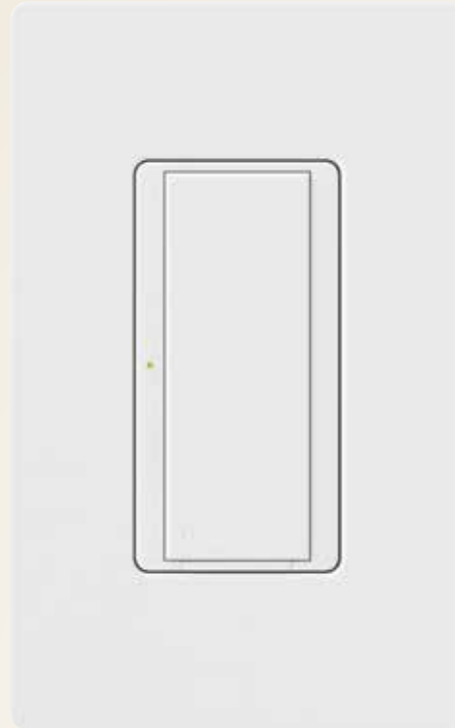
- Illuminated button labels are easy to read day or night

Maestro Dimmers and Switches

Hybrid seeTouch Keypad



Dimmer



Switch



Hybrid seeTouch Keypad



6BRL

5BRL

3S

4S



3BSRL

1RLD

2RLD

Wireless Maestro dimmers and switches replace the standard light switches in a home. They have the same wiring as standard light switches, which make them perfect for any construction type.

Dimmer models are available for all lighting loads including dimmable compact fluorescents and LEDs. Switches are available for non-dimmable light sources and fans.

- LED provides load status
- Lights softly fade on and off
- Multi-location dimming
- Available in Designer Gloss, Satin Colors®, and Architectural Matte; see page 28 for a complete list of colors

Select Lutron dimmers to work with:



Dimmable LED bulbs



MR16 bulbs



Incandescent/halogen bulbs



Dimmable compact fluorescent bulbs

The wireless hybrid seeTouch keypad combines a seeTouch keypad and a Maestro dimmer, giving you the advantages of both. As a dimmer, it connects to a lighting load using standard wiring. As a keypad, its buttons can be programmed to control any system function.

The hybrid seeTouch keypad is perfect in a retrofit application where you only have one light switch but you want to control multiple loads such as lights, shades, and HVAC from that location.

- Can be used for single-pole or multi-location dimming/switching for 3-way/4-way applications
- Incandescent and magnetic low voltage lighting loads
- Available in Designer Gloss, Satin Colors®, and Architectural Matte; see page 28 for a complete list of colors



Pico® Wireless Control

The versatile Pico wireless control can function as a lightweight handheld remote, a stylish tabletop control, or a wall-mounted keypad within a Lutron Claro® designer faceplate.

Available in select Designer gloss colors.



seeTouch® Tabletop Keypad



Car Visor Control

Car Visor Receiver



Ceiling-mounted Wireless Occupancy/Vacancy Sensor

Wall-mounted Wireless Occupancy/Vacancy Sensor

Wired Daylight Sensor

Radio Powr Savr™ Wireless Occupancy/Vacancy Sensors

Occupancy/vacancy sensors are ideal for laundry rooms, bathrooms, walk-in closets, and other rooms where lights are often inadvertently left on. By turning lights off automatically you can save up to 20% of the energy used.

Reliable Clear Connect® RF technology ensures system communication, while XCT™ technology enhances the sensor's ability to detect fine motions—such as turning the pages in a book—so occupants aren't left in the dark.

Multiple sensors can be used together in a space.

Available in White.

Wired Daylight Control Package

The wired daylight control package allows the system to respond to ambient light levels based on the controller (sensor) settings.

- Includes a power pack, daylight sensor, and LC8 controller
- Sensor is available as a ceiling, atrium, or skylight indoor sensor or as an outdoor roof or wall sensor

Available in White.

seeTouch Tabletop Keypad

The tabletop keypad allows your client to have total home control from wherever it's convenient. Perfect for bedside or countertop locations, it's available in 5-button, 10-button, and 15-button configurations. It can operate on batteries or with a plug-in transformer.

Available in Snow, Midnight, and Architectural metal finishes.

Car Visor Control and Receiver

The visor control transmitter is a battery-powered control for use from the car to activate lights, shades, and the garage door. Control up to four garage doors through the car visor receiver. The receiver is HomeLink® compatible to work with the visor buttons standard in many automobiles.

Available in White.





Plug-in Dimming Module

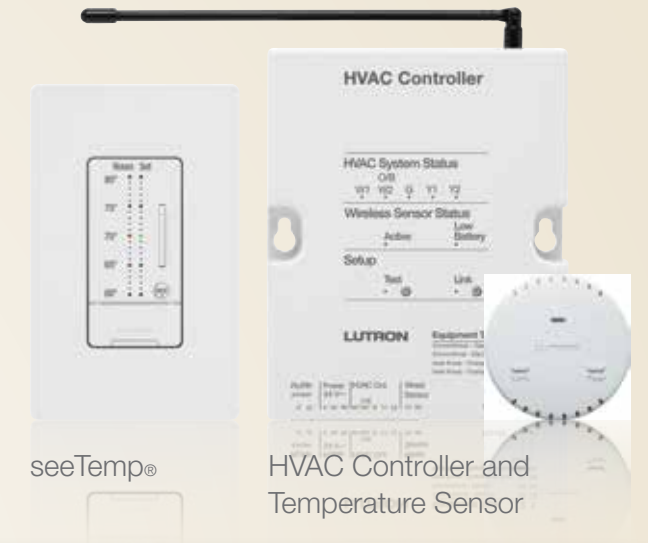


Tabletop Lamp Dimmer

Plug-in Appliance Module



TouchPRO Wireless® Thermostat



seeTemp®

HVAC Controller and Temperature Sensor

Lutron offers two thermostat options—an all-in-one design, and a 3-part solution. Whether you choose the familiar look of an on-wall touchscreen thermostat, or opt to minimize the visible equipment with the HVAC controller and wireless temperature sensor, you'll enjoy the same great system features and benefits.

TouchPRO Wireless Thermostat

This all-in-one solution combines the trusted Honeywell brand with Lutron innovation. It looks like a conventional thermostat, is easy to install and program, and is a simple way to add temperature control to a Lutron total home control system.

TouchPRO Wireless is compatible with seeTemp wall controls, making it easy to add additional points of control.

3-part Thermostat

In this solution, an out-of-view HVAC controller replaces the wall-mounted thermostat. It communicates with a wireless temperature sensor and seeTemp wall controls via Clear Connect® RF technology to simplify installation and ensure reliable operation.

- System control of HVAC
- Simple user interface
- Remote temperature sensors allow the temperature to be measured in the optimum location
- The HVAC controller connects to the mechanical equipment using standard thermostat wiring

Lamp Dimmers

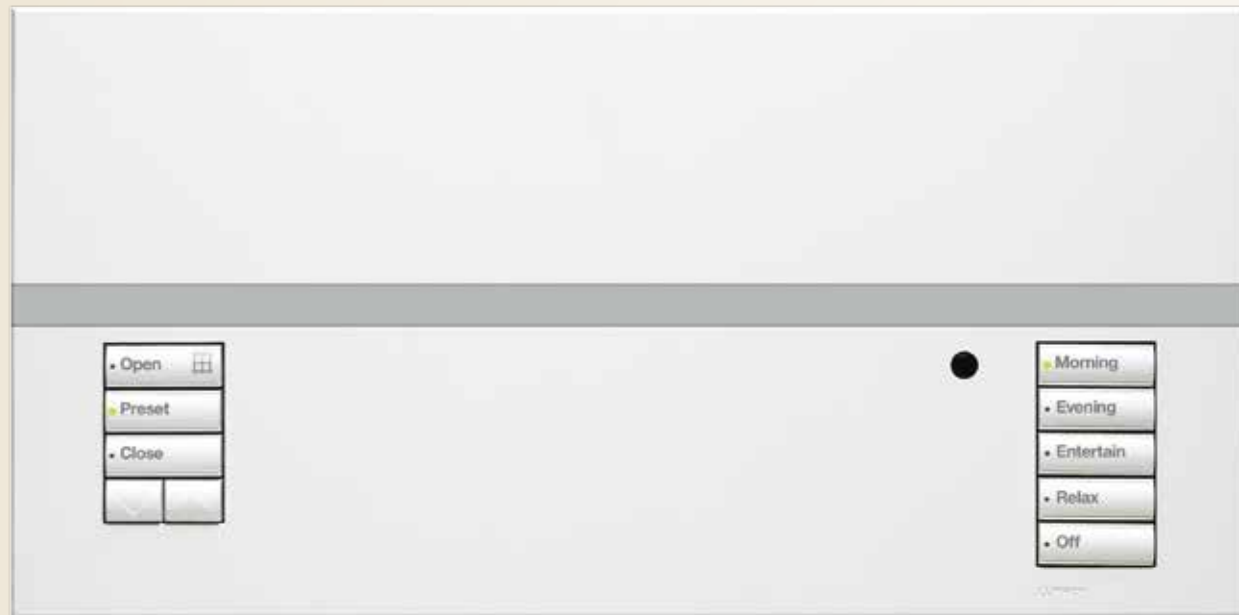
Plug-in dimming modules and tabletop lamp dimmers allow you to easily control table and floor lamps up to 300 W. Use the tabletop lamp dimmer for local on/off and raise/lower control. The plug-in dimming module can be placed out of sight (a keypad provides control in the space).

Available in Snow and Midnight.

Plug-in Appliance Module

The 15 A plug-in appliance module allows for switching control of appliances and other non-lighting loads. Used with appliances such as printers or monitors and audio/video equipment, it can save energy by turning off standby power.

Available in Snow and Midnight.



Coordinating accessories are the finishing touch for every room of the home. HomeWorks® QS products and coordinating accessories, including receptacles, phone/data jacks, and cable jacks, come in a wide variety of colors and finishes to complement the décor of any home. See page 28 for colors and finishes.

Architectural

Complete the look of your system with the beveled edges and precise corners of Architectural accessories. Wallplates without visible screws lend a clean, finished look to your project.

Available in Architectural matte and metal finishes or custom painted.

Designer

Designer products feature smooth, rounded corners and a designer opening wallplate with no visible screws. Controls and accessories by other manufacturers blend seamlessly in this standard opening size.

Available in a variety of gloss colors and Satin Colors®.

With GRAFIK Eye QS, you can control multiple lights and shades, creating just the right mood for any activity.

GRAFIK Eye QS has long been the benchmark for home theater control, but it's also perfect for rooms such as the dining room or master suite. It includes an infrared receiver so that lights and shades can be controlled by handheld remotes.

- Controls three, four, or six lighting zones and up to three groups of shades.
- Mounts in a 4-gang wallbox.
- Available in a variety of colors and finishes; visit www.lutron.com/grafikeyeqs for details.

Window Treatment Styles

Sivoia® QS shades can be wired or wireless. A small RF receiver provides wireless communication to the shade, so you can install them in new construction or retrofit applications.

Sivoia QS is Easier to Wire

- 4-conductor low voltage wire
- 24 V DC power

Sivoia QS Wireless Takes Ease of Installation to a New Level

- Simply run 2-conductor power cable to shade locations.
- Small single-shade power supply can be tucked away near each shade.
- Clear Connect® RF Technology delivers system communication.



Sivoia QS Triathlon® Shades

- Battery-powered
- Wire-free design makes installation simple
- Sivoia QS technology allows for seamless integration with other Lutron shading and lighting control solutions
- Triathlon power technology delivers a 3-5 year battery life using standard D-cell batteries

Roller Shades

Roller shades offer clean lines across multiple windows.

- Transform harsh glare into soft, pleasing light.
- Provide privacy while preserving your view.
- Protect valuable furnishings from UV rays.
- Change daytime into nighttime with a blackout fabric.
- Reduce solar heat gain and saving energy.
- Available in battery-powered option.

See the Lutron Shade Configuration Tool for size and fabric guidelines.



Horizontal Sheer Blinds

Horizontal sheer blinds offer the soft elegance of a sheer with the precise control of a blind.

- Combines the soft elegance of a sheer with the precision control of a blind.
- Available in 2" and 3" vane sizes in neutral light-filtering and room-darkening fabrics.
- Uses Sivoia® QS and Sivoia QS Wireless technology.



Venetian Blinds with Intelligent Tilt Alignment™

Venetian blinds are an attractive way to ensure privacy, while allowing sunlight to filter into a space.

- Adjust the height without affecting the tilt position.
- Intelligently align both lift and tilt positions between multiple shades within 1/8 of an inch.
- Available in a wide variety of colors; custom matching also available.

Window Treatment Styles



Roman Shades with CERUS® Safety Technology

Lutron has revolutionized the design of Roman shades by introducing CERUS—Cord-Eliminating Roman Uptake System—safety technology.

- Sheer uptake bands replace exposed inner cords that may pose a strangulation hazard.
- Uptake bands provide a quiet system with smoother, more even shade travel.
- This cascading window treatment is available in soft fabrics and woven woods from The Avant Collection®



Kirbé® Vertical Drapery System

An industry first, the Kirbé vertical drapery system smoothly pulls fabric up and completely out of the way.

- Unique design provides greater access to windows and view by eliminating stack back.
- Designed to clear door hardware, allowing full view through French and sliding doors.
- Choose fabrics from The Avant Collection.

Drapery Tracks

Silently control pinch pleat or ripplefold draperies for an elegant and convenient transition of a space.

- Single or multi-bend curved tracks are available, including tracks up to 30 ft. long with track splicing.
- Manual override is available.
- 90 degree bends are available.
- Choose fabrics from The Avant Collection or provide your own.



Insulating Honeycomb Shades

This automated window treatment features battery operation, making it wire-free. Its pleated form provides a crisp, clean look that enhances any décor, while air pockets provide insulation, increasing energy efficiency.

- Easy to retrofit.
- Lutron's Triathlon® battery technology ensures a long battery life—up to 3 years.
- Dust resistant for easy cleaning.
- Available in a variety fabrics, colors, pleats, and textures.



Tensioned Shades

Tensioned shades from Lutron combine electronic drive technology with a new tension system that eliminates the stress on the surrounding structure when installed. Fabric is kept taut and parallel to skylights and angled windows regardless of slope.

- Perfect for skylights, bottom-up, and angled window applications.
- Inside, recessed, and surface (ceiling) mounting options available to suit any application.
- Concealed cable guides maximize view when open.
- Choose from sheer, dim-out, and blackout fabric options from The Classico™ Collection.

Window Treatment Fabrics and Finishes

Lutron offers three fabric collections and its own Venetian blind for style made easy, innovation made beautiful.

The Gallery Collection

The Gallery Collection is an extensive line of fashion fabrics for roller shades, horizontal sheer blinds, pleated shades, and honeycomb shades. Choose from a variety of rich fabrics in warm neutrals, fresh whites, and bright colors that pop, as well as five opacities: sheer, translucent, black-out, light-filtering, and room-darkening.



Gallery Collection Fabric Binder

The Lutron Coulisse Collection

Fashion meets technology when Coulisse—a premier European brand in window fashion—and Lutron come together in this stylish collection. Choose from four fabric lines: Elegance, Tranquil, Bold, and Impact for roller shades, XL Pleats, and Venetian blinds. Colors range from warm browns and rich indigos to vibrant yellows, sweet pinks, and powerful blacks.



The Coulisse Collection Fabric Binders

The Avant Collection®

Beautiful, sophisticated soft fabrics and natural woven woods define this collection of Kirbé® vertical drapery, traditional drapery, and Roman shades. Earth tones and crisp, clean whites anchor this selection of timeless window treatments. The Avant Collection also includes a full line of distinctive Venetian woods and aluminums designed to complement any taste.



Avant Collection Fabric Binder

The Essentials Collection

The Essentials Collection consists of roller and honeycomb fabrics specifically chosen for the Serena and Triathlon lines of battery-powered shades. With a variety of colors, textures, and opacities in bold solids, textured linens, and woven fibers, the Essentials Collection has a fabric to suit every taste and application.



Honeycomb Shade Essentials Collection



Roller Essentials Collection

The Classico™ Collection

Look to the Classico Collection for performance fabrics designed to suit any commercial or residential application. This functional collection is available in sheer, dim-out, and blackout opacities, so you can choose the amount of sunlight you want entering the space. Sheers, which have open weaves, filter sunlight while preserving the view. Dim-outs permit some light penetration, but limit the view to shapes and shadows. Blackouts prevent all light from passing through, and when combined with side channels and top treatments, ensure a complete light seal.



The Classico Collection Fabric Binder

Ivalo® Finiré® LED Recessed Lighting

Ivalo® Lumaris™ LED Linear Lighting



Finiré LED recessed lighting guarantees an all-in-one solution with a Lutron LED fixture, driver, and controls, while delivering continuous flicker-free dimming to 1%. And now, Finiré is standard with Xicato LED light engines, which provide this solution with industry best color stability. Round or square trimmed or trimless models are available in downlight, wall wash, and adjustable fixtures. You can choose from a variety of architectural finishes including Wheat Alzak, Stainless, and Oiled Rubbed Bronze.

The improved version of Finiré also offers:

- Industry best 95+ Color Rendering Index (CRI)
- 1,000 delivered lumens in a 6.4" height IC airtight housing
- Industry best 1x2 step color consistency
- Field changeable beam spreads (20°, 30°, 40°, and 50°)
- 5-year fixture, dimming, and LED color consistency/shift warranty

Ivalo Lumaris LED linear lighting is a sleek LED system that provides high-quality, uninterrupted, even lines of LED illumination with standard, flicker-free dimming down to 1%. This flexible lighting solution, available in Silver, Black, or White is ideal for cove, under cabinet, under counter, under shelf, and path/step lighting.

Benefits include:

- ensured compatibility between an LED dimmer, driver, and fixture, for an all-in-one solution
- high-quality 90+ CRI LEDs
- small, versatile profile for multiple applications
- easy installation with wired and wireless solutions
- 5-year warranty covers fixture, dimming driver, and LED color consistency

Remote System Monitoring and Control

Open Integration



HomeWorks® QS extends the open integration capability that has always been a foundation of HomeWorks. Serial (RS-232) and Ethernet drivers, as well as the capability to interface with contact closure input or output devices, provide complete control of and from other devices and systems in the home.

Lutron works with many third-party manufacturers to ensure that our systems integrate reliably. We provide documentation along with product and technical support to many manufacturers to ensure that our system works with a wide variety of remotes and automation and security systems.

For example:

Common equipment frequently integrated with HomeWorks QS include:



A/V Equipment



Touch Panel Control

Security System



HVAC Equipment



Subsystem Automation (i.e. door locks, pool equipment, irrigation)

Remote System Monitoring and Control

Lutron applications for mobile devices give you the ability to control and monitor your HomeWorks® QS system right from your mobile device—at home or while away. Use the Lutron Home Control+ app to control and monitor lights, shades, and keypads from your iPhone®, iPod touch®, and Android™ mobile device. Full two-way functionality allows the app to update in real time as you change the lights in a space.

The Lutron Home Control+ app provides added information and control on the iPad® for your HomeWorks QS system; you can adjust scenes, timeclock, and thermostat programming, as well as save energy using new features like the "Green" button.



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- Alarm.com**
- AMX**
- Aton**
- Bang & Olufsen**
- BitWise Controls**
- Clare Controls**
- Control4**
- DSC**
- ELAN**
- ELK**
- Gefen**
- Honeywell**
- iSimplex**
- Key Digital**
- NetStreams**
- Pro Control**
- RTI**
- Savant**
- URC**



RF Softswitch Module



Wallbox Power Module



Specification Grade Panel



Dimming Panel



14" Low Voltage Enclosure



21" Low Voltage Enclosure



QS Power Panel

RF Softswitch Module

The RF Softswitch module uses Lutron patented technology to switch very large loads without any wear on the relay (an average of 1 million cycles), and reduces the number of devices needed to switch large loads (such as landscape lighting).

- Easy to install
- Can switch an entire branch circuit of lighting, up to 16A
- Conveniently controlled from system keypads, Pico® wireless controls, or smart phones
- Great for landscape lighting, pumps, and gates

Wallbox Power Module

- Control six lighting zones
- Mounts in standard 4-gang backbox

Specification Grade Panel

- Higher power capacity than standard dimming panels
- Available prebuilt in many sizes with breakers

Dimming Panel

- Available as a feed-through panel or with input breakers
- Available in 8-module and 5-module sizes
- Modules available for all lighting load types, fans, and motors

Local QS Power Supplies



QS Plug-in Power Supply

- Provides local power for QS shades, devices, or accessories
- Line voltage cord plugs into standard receptacle



QS J-box Power Supply

- Provides local power for QS shades, devices, or accessories
- Mounts on a 4" J-box

Low Voltage Enclosures

- Mounts processors, interfaces, and power supplies, and wire landing boards
- Provides wire landing and wire management

QS Power Panel

- Powers QS shades, devices, and accessories
- 10 outputs, 24 V DC
- Features on-board diagnostics to indicate miswires
- 17 1/2" high x 10 1/2" wide

Interfaces

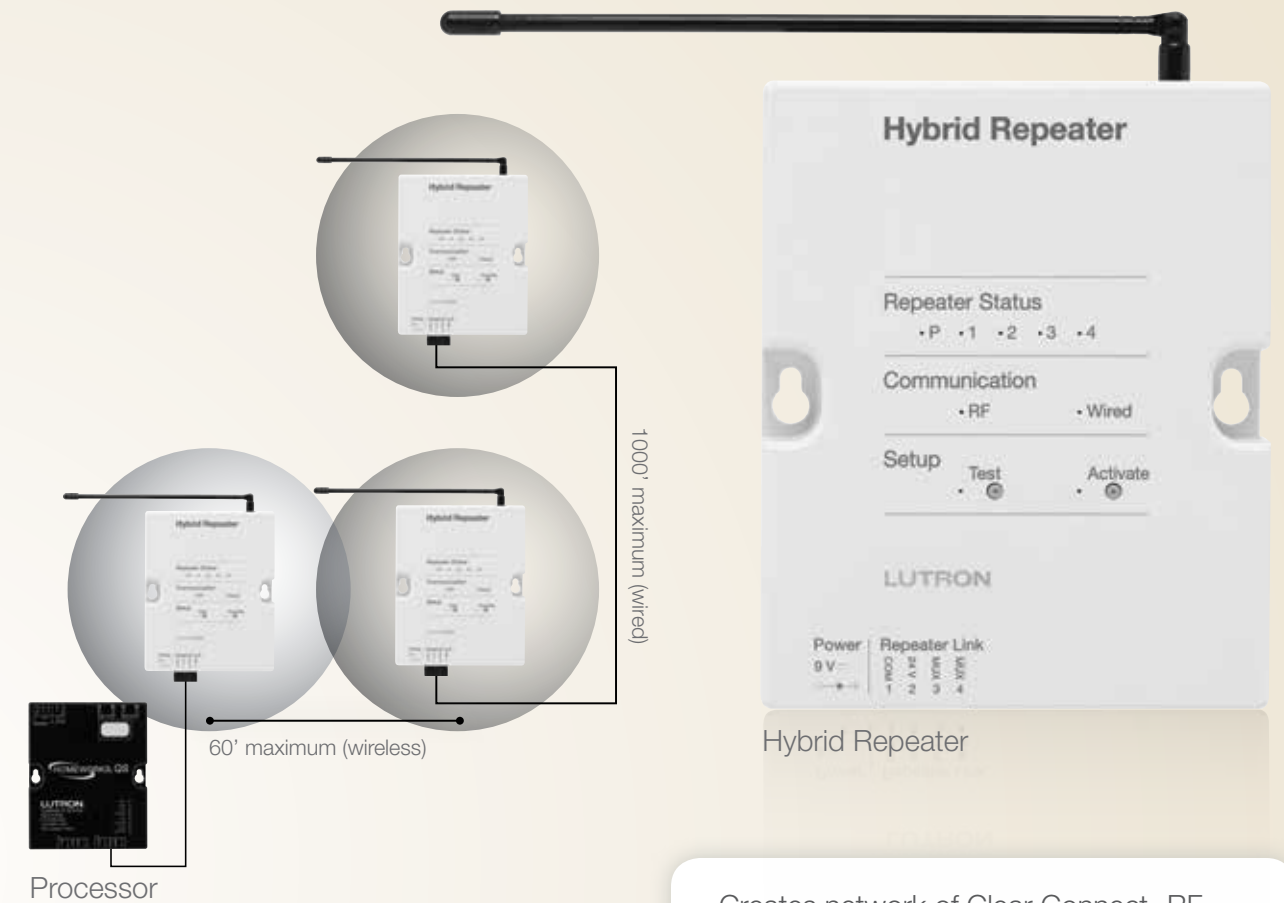


I/O Interface

- 5 contact closure inputs
- 5 contact closure outputs



Processor



The center of intelligence and communication, the processor manages events and actions within the system.

System Size Limits:

- Up to 1,500 wireless devices per system
- Up to 10,000 devices per system

Each processor has two links which can be configured as one of the following:

QS Link

Supports up to 100 wired QS devices using any wiring topology

Dimming Panel Link

Connects to up to 16 HomeWorks® QS dimming and spec grade panels

Clear Connect® RF Link

Supports up to 100 devices per link

The processor includes an Ethernet port to easily connect to the home network.

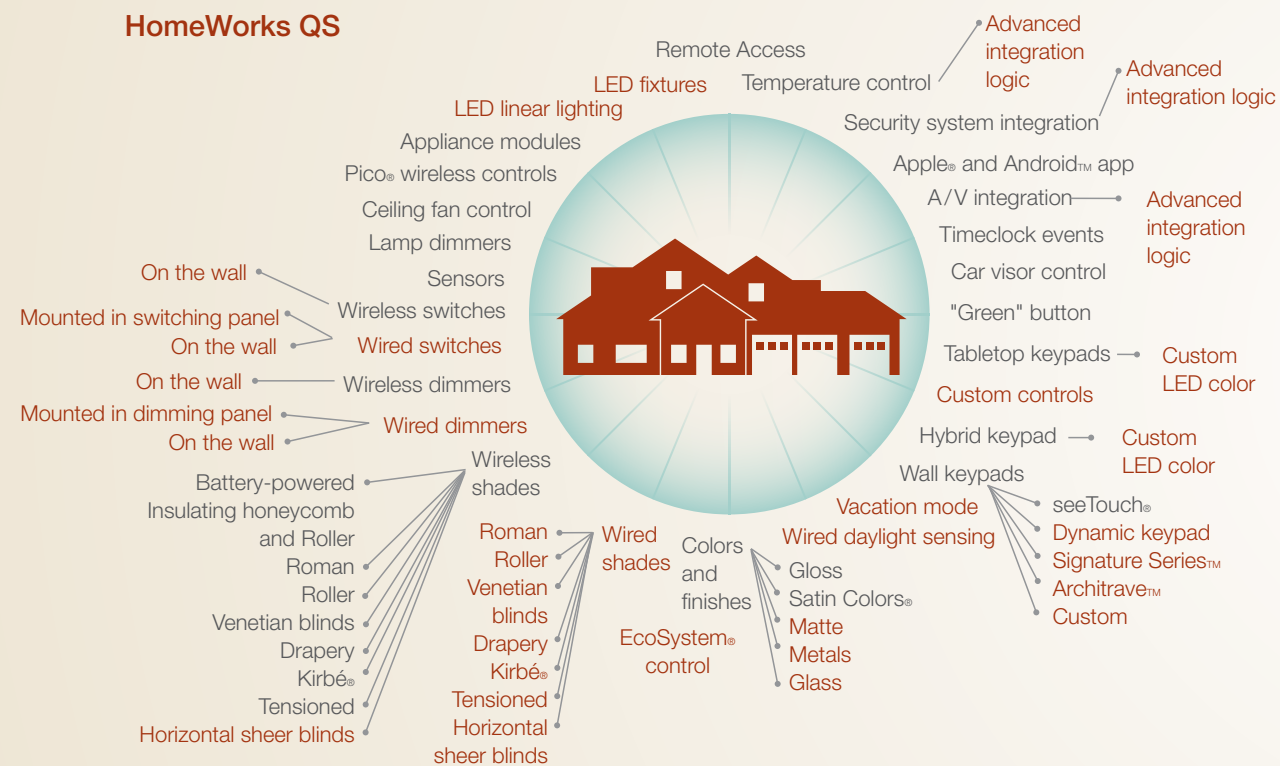
- Creates network of Clear Connect® RF coverage in the home
- Each repeater covers 2,500 sq. ft. up to 150,000 sq. ft. of coverage
- Repeaters can communicate with each other wirelessly (60' maximum between repeaters) or be wired together (1000' maximum) to create RF coverage at large distances in remote locations

HomeWorks® QS

HomeWorks QS is a wireless, wired, or hybrid system for control of a whole home (up to 30,000 square feet or more).

Characteristics

- Offers the most color choices for controls
- Offers the most keypad options, including customized keypads
- Hidden panels eliminate dimmers and switches on the wall
- Offers Vacation mode for added security while you're away from home for an extended time



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 Android is a trademark of Google Inc. Use of this trademark is subject to Google permissions.

Consider Lutron for new and existing residences

Your clients will enjoy the benefits of a wireless Lutron system in their primary home as well as in their vacation home, on their yacht, or in a guest house on their property.

And when they're away, the Lutron system will create a lived-in look. So they can rest assured their home will stay secure.



Primary residence



Vacation home



Guest house



Condo



Yacht

The Lutron Difference

50 Years of Innovation

Lutron invented the solid-state dimmer nearly 50 years ago, and since then we have developed a peerless reputation for quality and service. Lutron holds over 2,700 worldwide patents.

We are proud to be the provider of lighting controls for the White House, the Statue of Liberty, the Guggenheim® Museum in Spain, Louis Vuitton® stores, and many other world renowned locations.

Lutron Quality

All our products are designed and manufactured to the highest quality standards. We were one of the first 20 companies in the U.S. to earn the ISO 9001 international quality certification. Currently 9001:2000 certified, we have the highest confidence in the quality of our products, so we back HomeWorks® QS with an 8 year limited warranty.

24-hour / 7-day Technical Hotline

Technical specialists are just a toll-free phone call away to answer any question you may have about your HomeWorks QS system. Simply call 1.800.523.9466 (in the U.S. and Canada). Worldwide technical assistance is also available in 140 languages, at 1.610.282.3800.

Clear Connect® Wireless Technology

The Clear Connect architecture implements a network of high-speed signal repeaters to ensure reliable communications throughout any home. The RF network is scalable, providing coverage up to 150,000 sq. feet.

RTISS™ / RTISS-TE™

The utility power delivered to your home is subject to voltage variations, frequency shifts, harmonics, and noise that can cause light levels to fluctuate. Our patented RTISS (Real Time Illumination Stability System) technologies keep your light levels constant.

SoftSwitch® Technology

When relays are closed, a heat producing arc develops. The arc and its subsequent heating are the primary cause of wear on relay contacts, which eventually lead to relay failure. Our patented SoftSwitch technology prevents the arc from ever forming—dramatically extending relay lifetimes past 1,000,000 cycles.

XCT™ Technology

Our exclusive XCT Technology ensures occupancy/vacancy by detecting fine motions—for superior performance.

Revolutionary Shading Technology

Your shading systems should be seen and not heard. Sivoia® QS quiet electronic drive systems are rated at an incredibly low, 38 dBA sound level at a distance of 3 feet. That's about the same ambient noise level of a quiet bedroom in your home. Precision mechanisms and state-of-the-art electronics result in shade positioning accurate to 1/16 of an inch.



Lutron Locations

Abu Dhabi	Moscow
Ashland	Mumbai
Bangalore	Munich
Barcelona	New Delhi
Beijing	New York
Berlin	Panama City
Bogotá	Paris
Chicago	Puerto Rico
Chihuahua	Rio De Janeiro
Fort Lauderdale	São Paulo
Hong Kong	Seattle
Las Vegas	Shanghai
London	Singapore
Los Angeles	St. Kitts
Madrid	Toronto
Milan	Washington D.C.
Mexico City	Vancouver
Montreal	

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Ask the Expert 1.877.2LUTRON

www.lutron.com/homeworksqs



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