

GRAFIK Eye® QS

A customizable light control system that adjusts lights and shades for any activity



GRAFIK Eye QS (75% of actual size)

Benefits and applications

What are the benefits?

Improve comfort and productivity

- Ensures the right visual environment for any activity through simple, preset lighting scenes
- Increases employee productivity by 5-10% by giving them the ability to work in their preferred light level!

Save energy and comply with codes

- Reduces lighting energy usage up to 60% with high-end trim, personal control, integral astronomic time clock, occupancy/vacancy and daylight sensing, and after-hours mode
- Cuts cooling and heating costs by up to 10% when using with Lutron shades
- Complies with ANSI/ASHRAE/IESNA Standard 90.1-2007, IECC, and California Title 24 energy codes
- Reduces greenhouse gases by eliminating unnecessary energy use

Simplify design and integration

- Connects directly to Sivoia® QS wired or wireless shades, occupancy/vacancy and daylight sensors, keypads, and digital ballasts
- Includes astronomic timeclock without the need to connect to a third party device
- Integrates easily with A/V, HVAC, and other systems through RS232/Ethernet/CCI

Enhance flexibility and expandability

- Digital programming is easily reconfigurable to meet the changing needs of a project or space
- Add components to grow the size and capabilities of the system



Conference Room



Hotel Ballroom

Applications

Conference Room

Create a multi-functional space that will allow for quick and easy transitions of the space and lighting. Preprogrammed lighting scenes for common room tasks enable intuitive use.

Hotel Ballroom

Create the perfect ambiance to match the room's varying activities. Add in partition sensors to allow for quick and easy transitions of space and lighting with minimal interruptions.

Classroom

Enhance the learning environment to improve performance and comfort. Integrate sensors to save energy and reduce maintenance costs.

Home Theater

Make your home entertainment experience truly enjoyable by creating lighting scenes that fit with the room's core activities.

Other applications:

- Restaurants
- Lecture halls
- Retail floor spaces
- Worship spaces



Classroom



Home Theater

Key features

Backlit zone buttons

Raise or lower each group of lights. LEDs indicate current light level for each zone.

Multiple zones

Control up to 16 individual zones.

Information display

Easily read energy savings, lighting levels, and time clock information.

Backlit master override buttons

Temporarily raise and lower light levels of a complete scene.

Create scenes

Backlit engravable buttons for selecting scenes, with or without shades. (changeable in the field)

Control your shades

Backlit engravable shade control buttons. (changeable in the field)

Time clock

Provides scheduling to meet energy code requirements. Includes after-hours mode option.

Infrared remote control

Provides handheld control with a wireless remote.

Wireless connections to:

- Sivoia® QS Wireless shades and drapery tracks
- Radio Powr Savr™ occupancy/vacancy sensors
- Pico® wireless controls
- Radio Powr Savr™ wireless daylight sensor

Wired connections to:

- QS interfaces
- seeTouch® QS keypads
- Sivoia QS shades
- Contact closure functions
 - Occupancy sensors
 - Emergency interface
 - Afterhours enable
 - Timeclock enable
 - Lockout
- Wired IR

EcoSystem*:

- Up to 64 digital addressable ballasts
- Daylight sensors
- Occupancy/vacancy sensors

Model comparison

GRAFIK Eye® QS



Now with Clear Connect RF Technology™, GRAFIK Eye QS enables reliable communication with Lutron® light and shade control products in a space.

- Eliminates the need to run communication wiring to shades, sensors and additional GRAFIK Eye QS units
- Available in 3-, 4-, and 6-zone configurations
- Integral phase control dimmers provide control of incandescent/halogen, magnetic low-voltage, Lutron Tu-Wire® fluorescent dimming ballasts, and non-dimmed lighting loads
- Wired-only options available

GRAFIK Eye QS with EcoSystem®

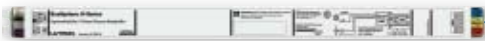


The GRAFIK Eye QS with EcoSystem combines the flexibility and scalability of the standard model with the additional benefit of an integral EcoSystem bus supply.

- Direct connection to Lutron digital fluorescent ballasts and LED drivers
- Available in 6-, 8-, and 16-zone configurations
- Wired-only options available



Conference room



NEW EcoSystem® H-Series ballasts

cost-effective, digitally addressable 1% dimming ballasts that work with wired and wireless sensors and controls—ideal for any application, both retrofit and new construction



NEW Radio Powr Savr™ wireless daylight sensor

wireless sensor gradually dims lights in response to the amount of available daylight



Sivoia® QS Wireless shades

automated window shades move quietly to eliminate glare and reduce heating and cooling costs



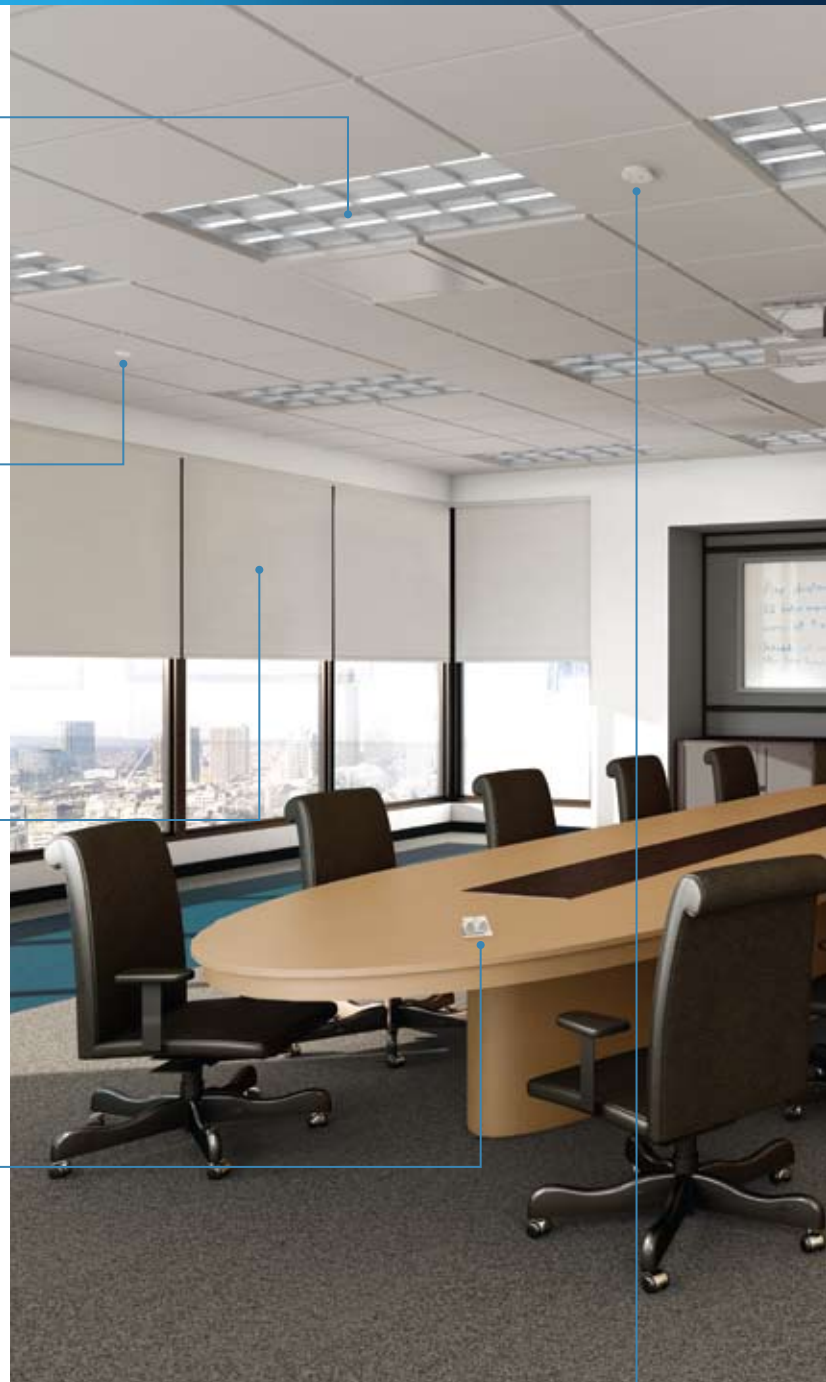
NEW Pico™ wireless controls

tabletop, handheld, or wall-mount controls that adjust lights or shades from anywhere in the room



RS 232/ Ethernet Interface

provides integration with third-party touch screens, A/V equipment, HVAC, building management systems and other digital equipment.



Radio Powr Savr™ wireless occupancy and vacancy sensor

wireless sensor provides energy savings by ensuring lights are off when rooms are unoccupied



Lutron solutions do more than just control the light in a space. With the right design strategies, they can save substantial amounts of energy, reduce operating costs, and improve productivity.

Energy-saving strategies

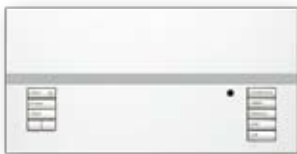
- ▶ High-end trim² (20% lighting)
- ▶ Occupancy or vacancy sensing³ (15% lighting)
- ▶ Daylight harvesting⁴ (15% lighting)
- ▶ Personal dimming control⁵ (10% lighting)
- ▶ Controllable window shades⁶ (10% AC)
- ▶ Timeclock scheduling* (variable)

Potential lighting energy savings

60%

* When scheduling is used without occupancy sensing or vacancy sensing, 15% energy savings can be expected.

Sources can be found on back cover.



NEW GRAFIK Eye® QS Wireless with EcoSystem
 customizable preset light control with built-in timeclock that allows users to adjust the lights and shades for any task and save energy at the touch of a button



NEW Hi-lume® A-Series LED driver
 the world's first LED drivers to offer smooth, continuous 1% dimming for virtually any LED fixture—whether it requires constant current or constant voltage

Key components system diagram



GRAFIK Eye® QS with EcoSystem® includes wired and wireless connections to control lights, shades, and energy usage automatically or with the touch of a button

- A** Low-voltage QS Link power and communications (4-conductor)
- B** Communications (2-conductor digital link)
- C** Wireless RF Communication

QS link



Quantum® provides total light management for an entire building



Sivoia® QS smart panel power supply



Sivoia QS shades reduce glare and solar heat gain for increased comfort, productivity, and energy savings, while preserving exterior views



seeTouch® QS keypads control lights and shades at the touch of a button

Additional QS devices



QS RS-232/Ethernet interface allows for seamless integration with A/V, HVAC, and building management systems



QS input/output device provides integration with third-party equipment requiring contact closure input/output



QS DMX interface provides integration with LEDs and theatrical equipment

Third-party devices

EcoSystem



Hi-lume® 3D digital addressable ballasts

provide architectural dimming to 1%



EcoSystem digital addressable ballasts

dim linear lamps to 10% and CFLs to 5%



Wired occupancy/vacancy sensor



Wired daylight sensor



EcoSystem H-Series digital addressable ballasts

provide architectural dimming to 1%



Hi-lume A-Series LED drivers

provide high-performance dimming of energy-efficient LEDs—architectural dimming to 1%

Up to 64 digital addressable ballasts or drivers

Wireless RF communication



NEW Radio Powr Savr™ wireless occupancy/vacancy sensor

automatically turns lights on/off or dims based on room occupancy/vacancy



NEW Pico® wireless control

handheld, tabletop, or wall-mount versions available to control lights and shades from anywhere in the space



NEW Radio Powr Savr wireless daylight sensor



Sivoia QS wireless panel power supply



Sivoia QS wireless shades

reduce glare and solar heat gain for increased comfort, productivity, and energy savings, while preserving exterior views

Available colors to coordinate with any décor

Architectural matte finishes



White
(WH) **f, s, b**



Ivory
(IV) **f, s, b**



Beige
(BE) **f, s, b**



Almond
(AL) **f, s, b**



Lt. Almond
(LA) **f, s, b**



Gray
(GR) **f, s, b**



Brown
(BR) **f, s, b**



Black
(BL) **f, s, b**

Anodized aluminium finishes



Clear
(CLA) **f, s**



Black
(BLA) **f, s**



Brass
(BRA) **f, s**

Architectural metal finishes



Bright Brass
(BB) **f, s**



Bright Chrome
(BC) **f, s**



Bright Nickel
(BN) **f, s**



Satin Brass
(SB) **f, s**



Satin Chrome
(SC) **f, s**



Satin Nickel
(SN) **f, s**

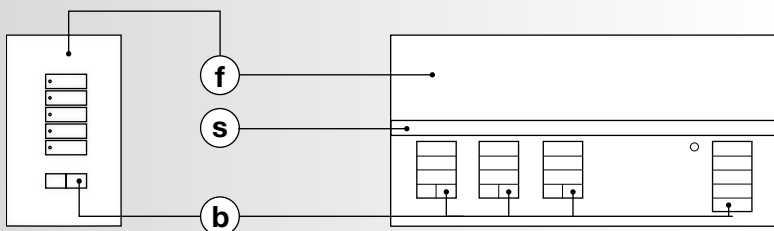


Antique Brass
(QB) **f, s**



Antique Bronze
(QZ) **f, s**

Color option guide



seeTouch® QS

GRAFIK Eye® QS

- f** faceplate color option
- s** stripe color option
- b** button color option

Satin Color® matte finishes



Hot
(HT) **f, s**



Merlot
(MR) **f, s**



Plum
(PL) **f, s**



Turquoise
(TQ) **f, s**



Terracotta
(TC) **f, s**



Greenbriar
(GB) **f, s**



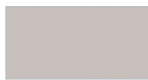
Bluestone
(BG) **f, s**



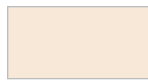
Mocha Stone
(MS) **f, s**



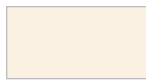
Sea Glass
(SG) **f, s**



Taupe
(TP) **f, s, b**



Eggshell
(ES) **f, s, b**



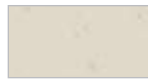
Biscuit
(BI) **f, s, b**



Goldstone
(GS) **f, s**



Desert Stone
(DS) **f, s**



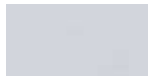
Stone
(ST) **f, s**



Limestone
(LS) **f, s**



Snow
(SW) **f, s, b**



Palladium
(PD) **f, s**



Midnight
(MN) **f, s**



Sienna
(SI) **f, s**



Use the GRAFIK Eye QS Design Tool to design a system or customize a control unit. Adjust colors and engraving to visualize the control unit before purchasing.

www.lutron.com/grafikqsdesigntool

Sources

- 1 Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey, released September 2008.
- 2 California energy study. <http://www.energy.ca.gov/efficiency/lighting/VOLUME01.PDF>
- 3 IESNA 2000 Proceedings, Paper #43: An analysis of the energy and cost savings potential of occupancy sensors for commercial lighting systems. "Occupancy sensor savings range from 17% to 60% depending upon space type and time delay settings."
- 4 US Department of Energy. How to Select Lighting Controls for Offices and Public Buildings. Claim: 27% potential savings using daylight harvesting.
- 5 IESNA 2000 Proceedings, Paper #34: Occupant Use of Manual Lighting Controls in Private Offices. "Giving the occupant manual switching and dimming provided a total of 15% added savings above the 43% achieved by motion sensors."
- 6 Lutron commissioned simulation by T.C. Chan Center for Building Simulation and Energy Studies, University of Pennsylvania, September 2008.



www.lutron.com/grafikeyeqs

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