Step 1

Determine number of zones and sources

A zone is a group of lights or shades that are always controlled together. GRAFIK Eye Controls have the ability to dim most popular light sources through power panels and to control several zones at one time from one button press. Important factors to consider when creating zones are flexibility of control and aesthetics.

Hotel Ballroom Reflected Ceiling Plan

A zone is a group of lights or shades that are always controlled together. GRAFIK Eye Controls have the ability to dim most popular light sources through power panels and to control several zones at one time from one button press. Important factors to consider when creating zones are flexibility of control and aesthetics.

<table>
<thead>
<tr>
<th>Zone</th>
<th>Description</th>
<th>No. of Circuits</th>
<th>Voltage</th>
<th>Feed Type/LV</th>
<th>Watt/Volt-amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-1</td>
<td>Chandelier</td>
<td>1</td>
<td>120V</td>
<td>N INC</td>
<td>1200</td>
</tr>
<tr>
<td>A-2</td>
<td>Downlights</td>
<td>1</td>
<td>277V</td>
<td>N FLD</td>
<td>75</td>
</tr>
<tr>
<td>A-3</td>
<td>Wall Sconces</td>
<td>1</td>
<td>277V</td>
<td>N FLD</td>
<td>32</td>
</tr>
<tr>
<td>A-4</td>
<td>North Track</td>
<td>1</td>
<td>120V</td>
<td>N ELV</td>
<td>20</td>
</tr>
<tr>
<td>A-5</td>
<td>East Track</td>
<td>1</td>
<td>120V</td>
<td>N ELV</td>
<td>20</td>
</tr>
<tr>
<td>A-6</td>
<td>West Track</td>
<td>1</td>
<td>120V</td>
<td>N ELV</td>
<td>20</td>
</tr>
<tr>
<td>A-7</td>
<td>South Track</td>
<td>1</td>
<td>120V</td>
<td>N ELV</td>
<td>20</td>
</tr>
</tbody>
</table>

Notes:
1. Chart is typical for each room: A, B, and C. Room A is shown.

Key:
- N: Normal
- E: Emergency
- INC: Incandescent
- ELV: Electronic Low-Voltage
- FLD: Lutron Hi-lume Fluorescent Dimming

* Includes transformer losses

Design Tips
- Multiple circuits can be controlled by one zone.
- Dimming ballasts are required to dim fluorescent sources, for information on Lutron Fluorescent Dimming Ballasts, see pg. 236.
- Transformer loss: Ballasts and transformers draw additional current beyond the lamp wattage. For example, magnetic low-voltage transformers typically draw an additional 20% of the lamp wattage.
- If integrating controllable window treatments with the lighting controls, dedicate a zone for each group of treatments to be controlled on GRX-4500 (CPN 1623) Control Units.
- Blank Load schedules are available. See pg.139.

Step 2

Select GRAFIK Eye 4000 Series Control Units

Using the number of zones determined in Step 1, select the appropriate size of Control Unit. GRAFIK Eye 4000 Series Control Units are available in 2-, 3-, 4-, 6-, 8-, 16-, and 24-zone configurations. Choose a 4500 Model Control Unit if programming the system from a PC or saving light levels at 1% increments is required.

See ordering pgs. 36-39.

This project requires seven zones, therefore three GRX-4108 are selected, one for each Room (A, B, C).

Design Tips
- If your space requires more than eight zones, link up to eight GRAFIK Eye 4000 Series Control Units (addresses) together for control of up to 64 zones in one system.
- A 16-zone Control Unit counts as two Control Units and a 24-zone unit counts as three Control Units toward the eight Control Units maximum.
- Use a separate GRAFIK Eye Control Unit for each distinct room/space in a project that may be controlled separately.

Step 3

Fill Out Dimming/Switching Panel Schedule(s)

Separate circuits into Power Panel Schedules by common voltages and feed type (N, N/E, E). Power Panels can be located throughout a project close to the loads they are serving, then linked together through a Low-voltage Communication Link for seamless operation.

Design Tips
- A separate panel or section is required for each voltage type (120V, 277V, etc.) and feed type (Normal or Emergency).
- Where emergency circuits are required, selected circuits should be placed in a separate panel schedule. Selected emergency circuits in Lutron Panels immediately go to a “full-on” condition when normal power fails. For more information, see pg. 176.
- Consider adding circuits into panel capacity for spare circuits if future growth is expected.
- In large projects, if more than 15% of project circuits are non-dim only, consider using an XP Softswitch Panel (see ordering pg. 162).
- If many circuits are between 800W/VA-2000W/VA and are incandescent, magnetic low-voltage, neon/cold cathode or Lutron Tu-Wire® fluorescent load types, consider using an LP Panel (see ordering pg. 158).
Step 4
Select Power Panels

Choose the Power Panel to support the number of circuits required by the project in the Dimming/Switching Panel Schedule(s) from Step 3.

Example shown typical of 120V circuits in project for Rooms A, B, and C. Process is similar for other voltages and feed types.

See ordering pgs. 146-174.

<table>
<thead>
<tr>
<th>Zone</th>
<th>Load Type</th>
<th>Total Load Watts/Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-1</td>
<td>INC</td>
<td>1200</td>
</tr>
<tr>
<td>A-4</td>
<td>ELV</td>
<td>88</td>
</tr>
<tr>
<td>A-5</td>
<td>ELV</td>
<td>132</td>
</tr>
<tr>
<td>A-6</td>
<td>ELV</td>
<td>132</td>
</tr>
<tr>
<td>A-7</td>
<td>ELV</td>
<td>88</td>
</tr>
<tr>
<td>B-1</td>
<td>INC</td>
<td>1200</td>
</tr>
<tr>
<td>B-4</td>
<td>ELV</td>
<td>88</td>
</tr>
<tr>
<td>B-5</td>
<td>ELV</td>
<td>132</td>
</tr>
<tr>
<td>B-6</td>
<td>ELV</td>
<td>132</td>
</tr>
<tr>
<td>B-7</td>
<td>ELV</td>
<td>88</td>
</tr>
<tr>
<td>C-1</td>
<td>INC</td>
<td>1200</td>
</tr>
<tr>
<td>C-4</td>
<td>ELV</td>
<td>88</td>
</tr>
<tr>
<td>C-5</td>
<td>ELV</td>
<td>132</td>
</tr>
<tr>
<td>C-6</td>
<td>ELV</td>
<td>132</td>
</tr>
<tr>
<td>C-7</td>
<td>ELV</td>
<td>88</td>
</tr>
<tr>
<td>SPARE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: This project requires one GP16-1204ML-20 120V Dimming Panel and one GP8-2774ML-20 277V Dimming Panel.

Design Tip

- Verify building system voltage/feed type (3Ø, 4W) and branch circuit size (where applicable). For example, 120V panels are equipped with 20 Amp branch circuit protection; maximum dimming circuit capacity is constant, fully loaded 16 Amps.

Step 5
Select and Implement Design Elements

Identify additional control elements for the project (e.g. DMX integration, Time Scheduling, Wireless Control) and add appropriate Wallstations/Control Interfaces to achieve strategies.

See Design Elements, see pgs. 6-9.

Step 6
Support the design with one-line diagrams and written product specifications.


For this project, two elements are chosen – an Infrared Control, SG-4SIRN (see pg. 44), and a partitioning control, SG-4PSN (see pg. 45).

Design Tips

- Up to 16 total wallstations/control interfaces can be added in one GRAFIK Eye 4000 Series system.
- Coordinate partitioning function with Audio Visual system requirements.

Designer™ Software

Lutron’s Designer™ software allows faster system design by automatically assigning the types of Power Boosters/Interfaces required from zone load type and wattage information. The software generates a complete bill of materials, including Wallstations and Control Interfaces, with DIP Switch settings, and a one-line diagram that can be saved and exported as a .dxf file. GRAFIK Eye Designer software is available at www.lutron.com/designer.
GRAFIK Eye® 4000 Series
Overall Wiring

System Capabilities
A total of 8 GRAFIK Eye 4000 Series Control Units and 16 Control Station Devices can be in one GRAFIK Eye 4000 System. Control Station Devices include Standard Wallstations, Control Interfaces and Window Treatment Wallstations.

GRAFIK Eye Control Units and Standard Wallstations can select scenes incorporating both lighting and/or window treatment zones, in the following three possible combinations: lights and window treatment scenes, lights-only scenes, and window treatment-only scenes.

GRAFIK Link
Wire Type C

Standard Wallstations, pg. 42

GRAFIK Eye 4000 (CPN1623) Control Unit, pg. 37

seeTouch™ Window Treatment Wallstations, pg. 68

Wire Type C

Control of Sivoia QED® and 3-wire AC Motorized Window Treatments and Projection Screens requires dedicated zones on GRAFIK Eye Control Units (custom part number CPN1623). Lighting Zones and Window Treatment Zones can be mixed on the same Control Unit, or can be on independent units.

To device by others

Window Treatment Wallstations control only window treatments without affecting lights. Each Window Treatment Wallstation can simultaneously control one or more window treatments, up to the maximum number of window treatments in the system.

Wiring Type Key

Type A
(2) #12 AWG wires (120V/277V)

Type B
(3) #12 AWG wires (120V/277V)

Type C
(2) #12 AWG Class 2 wires
(1) twisted, shielded pair #18 AWG Class 2 wires
(1) #18 AWG Class 2 Wire (Available from Lutron; Model #: GRX-CBL-46L)

Type D
(3) #18 AWG wires (24VAC, plus earth ground)
(1) twisted, shielded pair #22 AWG (Available from Lutron; Model #: SVQ-CBL-250)

Type E
(3) #16 AWG wires (24VAC, plus earth ground)

---

GRAFIK Link

System Capabilities

GRAFIK Eye Control Units and Standard Wallstations can select scenes incorporating both lighting and/or window treatment zones, in the following three possible combinations: lights and window treatment scenes, lights-only scenes, and window treatment-only scenes.

Wire Type C

Standard Wallstations, pg. 42

GRAFIK Eye 4000 (CPN1623) Control Unit, pg. 37

seeTouch™ Window Treatment Wallstations, pg. 68

Wire Type C

Control of Sivoia QED® and 3-wire AC Motorized Window Treatments and Projection Screens requires dedicated zones on GRAFIK Eye Control Units (custom part number CPN1623). Lighting Zones and Window Treatment Zones can be mixed on the same Control Unit, or can be on independent units.

To device by others

Window Treatment Wallstations control only window treatments without affecting lights. Each Window Treatment Wallstation can simultaneously control one or more window treatments, up to the maximum number of window treatments in the system.

Wiring Type Key

Type A
(2) #12 AWG wires (120V/277V)

Type B
(3) #12 AWG wires (120V/277V)

Type C
(2) #12 AWG Class 2 wires
(1) twisted, shielded pair #18 AWG Class 2 wires
(1) #18 AWG Class 2 Wire (Available from Lutron; Model #: GRX-CBL-46L)

Type D
(3) #18 AWG wires (24VAC, plus earth ground)
(1) twisted, shielded pair #22 AWG (Available from Lutron; Model #: SVQ-CBL-250)

Type E
(3) #16 AWG wires (24VAC, plus earth ground)

---

GRAFIK Link

System Capabilities

GRAFIK Eye Control Units and Standard Wallstations can select scenes incorporating both lighting and/or window treatment zones, in the following three possible combinations: lights and window treatment scenes, lights-only scenes, and window treatment-only scenes.

Wire Type C

Standard Wallstations, pg. 42

GRAFIK Eye 4000 (CPN1623) Control Unit, pg. 37

seeTouch™ Window Treatment Wallstations, pg. 68

Wire Type C

Control of Sivoia QED® and 3-wire AC Motorized Window Treatments and Projection Screens requires dedicated zones on GRAFIK Eye Control Units (custom part number CPN1623). Lighting Zones and Window Treatment Zones can be mixed on the same Control Unit, or can be on independent units.

To device by others

Window Treatment Wallstations control only window treatments without affecting lights. Each Window Treatment Wallstation can simultaneously control one or more window treatments, up to the maximum number of window treatments in the system.

Wiring Type Key

Type A
(2) #12 AWG wires (120V/277V)

Type B
(3) #12 AWG wires (120V/277V)

Type C
(2) #12 AWG Class 2 wires
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(1) #18 AWG Class 2 Wire (Available from Lutron; Model #: GRX-CBL-46L)

Type D
(3) #18 AWG wires (24VAC, plus earth ground)
(1) twisted, shielded pair #22 AWG (Available from Lutron; Model #: SVQ-CBL-250)

Type E
(3) #16 AWG wires (24VAC, plus earth ground)

---

GRAFIK Link

System Capabilities

GRAFIK Eye Control Units and Standard Wallstations can select scenes incorporating both lighting and/or window treatment zones, in the following three possible combinations: lights and window treatment scenes, lights-only scenes, and window treatment-only scenes.

Wire Type C

Standard Wallstations, pg. 42

GRAFIK Eye 4000 (CPN1623) Control Unit, pg. 37

seeTouch™ Window Treatment Wallstations, pg. 68

Wire Type C

Control of Sivoia QED® and 3-wire AC Motorized Window Treatments and Projection Screens requires dedicated zones on GRAFIK Eye Control Units (custom part number CPN1623). Lighting Zones and Window Treatment Zones can be mixed on the same Control Unit, or can be on independent units.

To device by others

Window Treatment Wallstations control only window treatments without affecting lights. Each Window Treatment Wallstation can simultaneously control one or more window treatments, up to the maximum number of window treatments in the system.

Wiring Type Key

Type A
(2) #12 AWG wires (120V/277V)

Type B
(3) #12 AWG wires (120V/277V)

Type C
(2) #12 AWG Class 2 wires
(1) twisted, shielded pair #18 AWG Class 2 wires
(1) #18 AWG Class 2 Wire (Available from Lutron; Model #: GRX-CBL-46L)

Type D
(3) #18 AWG wires (24VAC, plus earth ground)
(1) twisted, shielded pair #22 AWG (Available from Lutron; Model #: SVQ-CBL-250)

Type E
(3) #16 AWG wires (24VAC, plus earth ground)

---

GRAFIK Link

System Capabilities

GRAFIK Eye Control Units and Standard Wallstations can select scenes incorporating both lighting and/or window treatment zones, in the following three possible combinations: lights and window treatment scenes, lights-only scenes, and window treatment-only scenes.

Wire Type C

Standard Wallstations, pg. 42

GRAFIK Eye 4000 (CPN1623) Control Unit, pg. 37

seeTouch™ Window Treatment Wallstations, pg. 68

Wire Type C

Control of Sivoia QED® and 3-wire AC Motorized Window Treatments and Projection Screens requires dedicated zones on GRAFIK Eye Control Units (custom part number CPN1623). Lighting Zones and Window Treatment Zones can be mixed on the same Control Unit, or can be on independent units.

To device by others

Window Treatment Wallstations control only window treatments without affecting lights. Each Window Treatment Wallstation can simultaneously control one or more window treatments, up to the maximum number of window treatments in the system.

Wiring Type Key

Type A
(2) #12 AWG wires (120V/277V)

Type B
(3) #12 AWG wires (120V/277V)

Type C
(2) #12 AWG Class 2 wires
(1) twisted, shielded pair #18 AWG Class 2 wires
(1) #18 AWG Class 2 Wire (Available from Lutron; Model #: GRX-CBL-46L)

Type D
(3) #18 AWG wires (24VAC, plus earth ground)
(1) twisted, shielded pair #22 AWG (Available from Lutron; Model #: SVQ-CBL-250)

Type E
(3) #16 AWG wires (24VAC, plus earth ground)
**GRAFIK Eye® 4000 Series**

The GRAFIK Eye 3000/4000 Sivoia QED Controller, which connects to both the Sivoia QED communication link and the GRAFIK Eye communication link, is used for programming and operating the group of window treatments wired to the control. Up to a combined total of eight Sivoia QED Controllers and AC Motor Group Controllers can be in one GRAFIK Eye 4000 System.

**Note:** Use a Sivoia QED plug-in transformer (shown), a junction box mount transformer, or a Sivoia QED power panel. One Sivoia QED transformer can power only one EDU regardless of window treatment size. The power wiring from the transformer may be up to 200’ (61m).

The 3-wire AC Motor Group Controller connects to the GRAFIK Eye Communication Link and is used for programming and operating up to four 3-wire AC Motorized Window treatments or projection screens to which the control is wired. Up to eight Sivoia QED Controllers and AC Motor Group Controllers can be in one GRAFIK Eye 4000 System.

*AC Motorized Projection Screen (one motor per channel output)*

*AC Motorized Roller Shades (one motor per channel output)*

*Note: Use a Sivoia QED plug-in transformer (shown), a junction box mount transformer, or a Sivoia QED power panel. One Sivoia QED transformer can power only one EDU regardless of window treatment size. The power wiring from the transformer may be up to 200’ (61m).*

**GRAFIK Eye® 4000 Series Overall Wiring**
**GRAFIK Eye® 4000 Series**

Control Units

**Architectural Grade**
- Provides continuously smooth square law dimming of all popular sources through Dimming Panels, and non-dim control for sources through Switching Panels; see Power Panels, pg. 146
- Dimming Panels contain Lutron’s patented powerline stability circuitry (RTISS—Real Time Illumination Stability System), capable of maintaining constant light levels with no visible flicker under changing powerline conditions
- Switching Panels contain Lutron’s patented XP Softswitch™ circuitry capable of withstanding inrush current 50 times operating current for full 16A circuits of any source - resistive, inductive, or capacitive
- Average rated life of Lutron relays are 1,000,000 cycles (on/off)
- Provides positive air-gap off for every circuit through Power Panels
- Up to eight GRAFIK Eye Control Units can be linked for up to 64 zones
- Built-in Infrared Receiver/Optional Wireless Remote Control
- User-defined lockout options integral; locking covers available, pg. 64
- Offers simple program for scene light levels and fade times; no “store” button required

**Compatible Lutron Products**
- Wallstation Controls pg. 42
- Window Treatment Controllers pg. 67
- Dimming Panels pg. 152
- Switching Panels pg. 162
- Receptacles pg. 130
- Cable and Phone Jacks pg. 130

**Matching Accessories**

**GRAFIK Eye 4000 System Map**
- Use the map at right to identify system component being reviewed in each section
- For overall wiring information, see pg. 34

**Specifications**
- Load Types:
  - Controlled through Power Panels, pg. 146
  - For control of Sivoia QED™ Window Treatments, use SG-SVCN Sivoia QED Controller, see pg. 67
  - For control of AC Motorized Window Treatments, use GRX-4M-AC AC Motor Group Controller, see pg. 67 and/or Power Panels with Motor Modules, see pg. 173
  - Sivoia QED and 3-wire AC Motorized Window Treatments require dedicated zones on GRX-450X-X-XXCPN1623 Control Units
- Power through Power Panels, see pg. 146
- Mounting:
  - Fits standard US wallboxes, 3.50” (89mm) deep strongly recommended, 2.75” (64mm) minimum
  - Up to total of 8 Sivoia QED Controllers plus AC Motor Group Controllers can be in one system with 8 GRAFIK Eye Control Units and 16 Control Station Devices

*Standards listed below apply to one or more products in the GRAFIK Eye product line. Consult factory for specific information.*

![UL, cUL, NOM, CE, KEMA, ETL, Lloyds, TUV, SGS, CE Mark, IEC, RoHS, FCC, IEC 60950, ISO 9001 logos]
## GRAFIK Eye® 4000 Series Control Units

### 2-ZONE CONTROL UNITS

Sources controlled through Dimming and XP Softswitch Panels and Window Treatment Controllers. For Panel ordering information, see Power Panels pg. 146. For Window Treatment Controllers, see pg. 67.

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Color</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>4100</td>
<td>GRX-4102-45002,3</td>
<td>Opaque A</td>
<td>T</td>
</tr>
<tr>
<td>4500</td>
<td>GRX-4502-45002,3</td>
<td>Translucent Black</td>
<td>T</td>
</tr>
</tbody>
</table>

**Footnotes**, page 37

1. Depth includes wallplate and backbox. Wallplate depth is 0.35” (9mm).
2. 4500 Model Control Units can be programmed manually or from a PC and offer the precision of setting light levels in 1% increments.
3. Add CPN1623 to the end of 4500 model number for zone load type selections to operate Sivoia QED and 3-wire AC Motorized Window Treatments.
4. Counts as one of eight total control units per system.

### Dimensions

**W**: 5.56” (141mm)  
**H**: 4.56” (116mm)  
**D**: 2.25” (57mm)

Wallbox Size: two-gang, 3.50” (89mm) deep

### 3-ZONE CONTROL UNITS

Sources controlled through Dimming and XP Softswitch Panels and Window Treatment Controllers. For Panel ordering information, see Power Panels pg. 146. For Window Treatment Controllers, see pg. 67.

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Color</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>4100</td>
<td>GRX-4103-45002,3</td>
<td>Opaque A</td>
<td>T</td>
</tr>
<tr>
<td>4500</td>
<td>GRX-4503-45002,3</td>
<td>Translucent Black</td>
<td>T</td>
</tr>
</tbody>
</table>

**Footnotes**, page 37

1. Depth includes wallplate and backbox. Wallplate depth is 0.35” (9mm).

### Dimensions

**W**: 7.31” (186mm)  
**H**: 4.56” (116mm)  
**D**: 2.25” (57mm)

Wallbox Size: three-gang, 3.50” (89mm) deep

### 4-ZONE CONTROL UNITS

Sources controlled through Dimming and XP Softswitch Panels and Window Treatment Controllers. For Panel ordering information, see Power Panels pg. 146. For Window Treatment Controllers, see pg. 67.

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Color</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>4100</td>
<td>GRX-4104-45002,3</td>
<td>Opaque A</td>
<td>T</td>
</tr>
<tr>
<td>4500</td>
<td>GRX-4504-45002,3</td>
<td>Translucent Black</td>
<td>T</td>
</tr>
</tbody>
</table>

**Footnotes**, page 37

1. Depth includes wallplate and backbox. Wallplate depth is 0.35” (9mm).

### Dimensions

**W**: 8.94” (227mm)  
**H**: 4.56” (116mm)  
**D**: 2.25” (57mm)

Wallbox Size: four-gang, 3.50” (89mm) deep

### 6-ZONE CONTROL UNITS

Sources controlled through Dimming and XP Softswitch Panels and Window Treatment Controllers. For Panel ordering information, see Power Panels pg. 146. For Window Treatment Controllers, see pg. 67.

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Color</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>4100</td>
<td>GRX-4106-45002,3</td>
<td>Opaque A</td>
<td>T</td>
</tr>
<tr>
<td>4500</td>
<td>GRX-4506-45002,3</td>
<td>Translucent Black</td>
<td>T</td>
</tr>
</tbody>
</table>

**Footnotes**, page 37

1. Depth includes wallplate and backbox. Wallplate depth is 0.35” (9mm).

### Dimensions

**W**: 8.94” (227mm)  
**H**: 4.56” (116mm)  
**D**: 2.25” (57mm)

Wallbox Size: four-gang, 3.50” (89mm) deep

---

**Ordering Example**

GRX-4102-T-AU-WH  
add cover option and color/finish suffix to model #

**COVER OPTIONS**

<table>
<thead>
<tr>
<th>Opaque A</th>
<th>Translucent Black T</th>
</tr>
</thead>
</table>

**BASE COLORS**

Matte Finishes

- Standard, ships in 48 hrs.
- Matte Cover Options: A or T
- See pg. 10 for complete color offering and suffixes.

Gloss (NEMA) Finishes

- Ships in 4-6 weeks.
- Gloss Cover Option: A only
- See pg. 10 for complete color offering and suffixes.

Metal Finishes

- Ships in 4-6 weeks.
- Metal Cover Option: T only
- See pg. 10 for complete color offering and suffixes.

Satin Finishes

- Ships in 4-6 weeks.
- Satin Cover Option: A or T
- See pg. 10 for complete color offering and suffixes.

Customization

- Ships in 4-6 weeks.
- See pg. 12 for multigang wallplates, color matching, engraving/silk screening, and custom controls.
- See pg. 143 for engraving schedules.

Locking Covers

- See pg. 64 for more information.

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**Technical Support**: 1.800.523.9466…24 hours/7 days (US/CAN)  
**To Order**: 1.888.LUTRON1…8 a.m.–8 p.m./M-F ET (US/CAN)
### 8-ZONE CONTROL UNIT

Sources controlled through Dimming and XP Softswitch Panels and Window Treatment Controllers.

For Panel ordering information, see Power Panels pg. 146.
For Window Treatment Controllers, see pg. 67.

| 4100  | GRX-4108-  |
| 4500^2 | GRX-4508-  |

- Counts as one of eight total Control Units per system.

### 16-ZONE CONTROL UNIT

Sources controlled through Dimming and XP Softswitch Panels and Window Treatment Controllers.

For Panel ordering information, see Power Panels pg. 146.
For Window Treatment Controllers, see pg. 67.

| 4100  | GRX-4116-  |
| 4500^2 | GRX-4516-  |

- Counts as two out of eight total Control Units per system.

### 24-ZONE CONTROL UNIT

Sources controlled through Dimming and XP Softswitch Panels and Window Treatment Controllers.

For Panel ordering information, see Power Panels pg. 146.
For Window Treatment Controllers, see pg. 67.

| 4100  | GRX-4124-  |
| 4500^2 | GRX-4524-  |

- Counts as three out of eight total Control Units per system.

---

Footnotes, page 38

1. Depth includes wallplate and backbox. Wallplate depth is 0.35” (9mm).
2. 4500 Model Control Units can be programmed manually or from a PC and offer the precision of setting light levels in 1% increments.
3. Add CPN1623 to the end of model number for zone load type selections to operate Sivoia QED® and 3-wire AC Motorized Window Treatments.

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**Cover Options**

| Matte Finishes | Standard, ships in 48 hrs. |
| Gloss (NEMA) Finishes | Ships in 4-6 weeks. |
| Metal Finishes | Ships in 4-6 weeks. |
| Satin Finishes | Ships in 4-6 weeks. |
| Customization | Ships in 4-6 weeks. |
| Locking Covers | See pg. 64 for more information. |

---

**Dimensions**

| W: 8.94” (227mm) |
| H: 4.56” (116mm) |
| D: 2.25” (57mm) |

Wallbox Size: four-gang, 3.50” (89mm) deep

---

Ordering Example

GRX-4108-T-AU-WH

add cover option and color/finish suffix to model #
### Matte Finishes
Ships in 4-6 weeks.
- White WH
- Ivory IV
- Beige BE
- Gray GR
- Brown BR
- Black BL

### Metal Finishes
Ships in 4-6 weeks.
- Bright Brass BB
- Bright Chrome BC
- Bright Nickel BN
- Satin Brass SB
- Satin Chrome SC
- Satin Nickel SN
- Antique Brass QB
- Antique Bronze QZ
- Anodized Aluminum
  - Clear CLA
  - Black BLA
  - Brass BRA

### Customization
- See pg. 143 for engraving schedules.

### Locking Covers
- See pg. 64 for more information.

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### 3-ZONE SLIDER CONTROL UNIT
**Model:** GRXSLD-4103-
- Serves as Control Unit for three zones of lighting
- Two scenes per Slider Control Unit, expandable to 12 scenes with additional Controls
- Master slider option available (uses one slider zone)
- No remote fine-tuning for individual zones available
- Built-in Panic Scenes

### 4-ZONE SLIDER CONTROL UNIT
**Model:** GRXSLD-4104-
- Serves as Control Unit for four zones of lighting
- Two scenes per Slider Control Unit, expandable to 12 scenes with additional Controls
- Master slider option available (uses one slider zone)
- No remote fine-tuning for individual zones available
- Built-in Panic Scenes

### 6-ZONE SLIDER CONTROL UNIT
**Model:** GRXSLD-4106-
- Serves as Control Unit for six zones of lighting
- Two scenes per Slider Control Unit, expandable to 12 scenes with additional Controls
- Master slider option available (uses one slider zone)
- No remote fine-tuning for individual zones available
- Built-in Panic Scenes

### 8-ZONE SLIDER CONTROL UNIT
**Model:** GRXSLD-4108-
- Serves as Control Unit for eight zones of lighting
- Two scenes per Slider Control Unit, expandable to 12 scenes with additional Controls
- Master slider option available (uses one slider zone)
- No remote fine-tuning for individual zones available
- Built-in Panic Scenes

---

1. Depth includes wallplate and backbox. Wallplate depth is 0.35” (9mm).
2. Manual programming only. (No PC programming available).
3. Counts as one of eight total control units per system.

---

**Dimensions**
- **3-ZONE SLIDER CONTROL UNIT**
  - W: 7.31” (186mm)
  - H: 4.56” (116mm)
  - D: 2.25” (57mm)
  - Wallbox Size: three-gang, 3.50” (89mm) deep

- **4-ZONE SLIDER CONTROL UNIT**
  - W: 8.94” (227mm)
  - H: 4.56” (116mm)
  - D: 2.25” (57mm)
  - Wallbox Size: four-gang, 3.50” (89mm) deep

- **6-ZONE SLIDER CONTROL UNIT**
  - W: 8.94” (227mm)
  - H: 4.56” (116mm)
  - D: 2.25” (57mm)
  - Wallbox Size: four-gang, 3.50” (89mm) deep

---

**Technical Support:** 1.800.523.9466...24 hours/7 days (US/CAN)
**To Order:** 1.888.LUTRON1...8a.m.–8p.m./M-F ET (US/CAN)
GRAFIK Eye® 4000 Series

GP Dimming Panels
Lutron’s highest performance architectural dimming panel for all applications.

LP Dimming Panels
Commercial dimming panel for handling numerous small loads.

XP Softswitch™ Panels
Million-cycle switching panel employs Lutron’s patented Softswitch technology.

DC Dimming Panels
DC dimming for noise sensitive applications including MRI and sound studios.

Custom Combination Panels
Custom dimming/switching panel tailored to your projects requirements.

SOURCES
- Lutron Dimming Ballasts
- Switching Panels
- Control Interfaces
- Window Treatment Controllers and Wallstations
- GRAFIK Eye Control Units
- Wallstations
- Control Station Devices

SPECIFICATIONS
- Prewired: Lutron power panels are prewired at the factory. Wire feed and load wiring only. No other wiring of assembly required.
- Thermal Magnetic Breakers: Circuit breakers are UL-rated thermal magnetic.
- Lightning Strike Protection: Power panels meet ANSI/IEEE standard 62.41-1980 and can withstand voltage surges of up to 6000V and current surges of up to 3000A.
- No Flicker: RTISS™ filter circuit technology compensates for incoming line voltage variations: No visible flicker with +/-2% change in RMS voltage/cycle and +/-2% Hz change in frequency/second.
- Air Gap-off Switches: Ensures an open circuit when off function is selected.
- Arcless-relay: Eliminate arcing at mechanical contacts when loads are switched.
- Convection Cooled: Patented, ribbed aluminum heat sink base cools panel by convection. No fans.
- Enclosure: NEMA-Type 1 (Type 2 available upon request), IP-20 protection; #16 U.S. Gauge steel. Indoors only.
- Customization: Panels can be customized to meet your needs, pg. 172.
## CHOOSING A PANEL

<table>
<thead>
<tr>
<th>Panel Type</th>
<th>GP</th>
<th>LP</th>
<th>XP Softswitch™</th>
<th>DCI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Function</strong></td>
<td>Lutron’s highest performance architectural Dimming Panel for handling numerous small loads</td>
<td>Commercial Dimming Panel employs Lutron’s patented Softswitch technology</td>
<td>DC Dimming Panel for noise sensitive applications including MRI and sound studios</td>
<td></td>
</tr>
<tr>
<td><strong>Voltage</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>120V, 220-240V (AU) 230V (CE) 100V (JA)&lt;sup&gt;2&lt;/sup&gt; 50 or 60Hz</td>
<td>120V, 220-240V (AU) 230V (CE) 50 or 60Hz</td>
<td>120V, 277V, 347V 220-240V (AU) 230V (CE) 50 or 60Hz</td>
<td></td>
</tr>
<tr>
<td><strong>Panel Feed Type</strong></td>
<td>Feed Through Main Lugs Main Breaker Dual Tap Main Lugs Isolator Switch</td>
<td>Main Lugs Main Breaker Isolation Switch</td>
<td>Feed Through Main Lugs Feed Through</td>
<td></td>
</tr>
<tr>
<td><strong>Number of Circuits</strong></td>
<td>3-144</td>
<td>4-32 lighting zones (1-8 dimming modules)</td>
<td>4-48 (Feed Through Panels) 4-42 (Panels with Breakers)</td>
<td>1-3</td>
</tr>
<tr>
<td><strong>Thermal Magnetic Circuit Breaker</strong></td>
<td>1 per circuit</td>
<td>1 per module (4 lighting zones per module)</td>
<td>1 per circuit (for main lug panels only)</td>
<td>1 per circuit</td>
</tr>
<tr>
<td><strong>Load Rating</strong></td>
<td>2000WVA&lt;sup&gt;3&lt;/sup&gt;, 16A continuous/circuit 10A 230V (CE)</td>
<td>16A continuous/module 13A 230V (CE)</td>
<td>16A continuous/circuit</td>
<td>1200W continuous/circuit</td>
</tr>
<tr>
<td><strong>Load Type</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td>inc, mlv, elv&lt;sup&gt;5&lt;/sup&gt;, fl, n, cc, nd</td>
<td>inc, mlv, elv&lt;sup&gt;5&lt;/sup&gt;, n, cc, nd, motor&lt;sup&gt;6&lt;/sup&gt;, interface needed for fl&lt;sup&gt;4&lt;/sup&gt;</td>
<td>All lamp types&lt;sup&gt;5&lt;/sup&gt; and motor loads</td>
<td>inc</td>
</tr>
<tr>
<td><strong>Lamp Noise Suppression</strong></td>
<td>Architectural</td>
<td>Commercial</td>
<td>Not required</td>
<td>Inaudible</td>
</tr>
<tr>
<td><strong>RFI Suppression</strong></td>
<td>Highest-grade choke</td>
<td>High-grade choke</td>
<td>Switching only; no choke required</td>
<td>Specifically for noise-sensitive environments</td>
</tr>
<tr>
<td><strong>Ambient Temperature</strong></td>
<td>32º-104ºF (0º-40ºC)</td>
<td>32º-104ºF (0º-40ºC)</td>
<td>32º-104ºF (0º-40ºC)</td>
<td>32º-104ºF (0º-40ºC)</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Surface-mount (3-24 circuits) Floor mount (36-144 circuits)</td>
<td>Surface-mount or recessed between 16” studs</td>
<td>Surface-mount or recessed between 16” studs</td>
<td>Surface-mount (1-3 circuits)</td>
</tr>
</tbody>
</table>

### Footnotes, pg. 41
1. All voltages are nominal.
2. JDP is similar in performance; only for installation in Japan; see pg. 157.
3. Load type key: inc=incandescent, mlv=magnetic low-voltage, n=neon, cc=cold cathode, fl=fluorescent (magnetic and capacitive), elv=electronic low-voltage, nd=non-dim, HID.
4. FDB Interface works with Lutron Eco-10<sup>™</sup> (ECO-Series) and Hi-lume® Electronic Fluorescent Dimming Ballasts.
5. Contact Lutron Technical Support for a list of approved electronic low-voltage transformers.
6. Ten Volt Module (option), see pg. 173.
7. 3-wire AC motor types; Motor Module (option), see pg. 173.
8. Measured current will not exceed continuous load rating due to voltage drop in the dimmer.