**Buttons** 

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# **GRAFIK Eye 3000 Series Control Unit**

Cover (shown open)



#### Description

- Provides pushbutton recall of four preset lighting scenes, plus Off.
- Allows setup of lighting scenes using buttons on the Control Unit.
- Controls many light source types directly, and others using power interfaces.
- Provides lockout options to prevent accidental changes.
- Includes built-in infrared receiver for operation with an optional remote control.

### Models available to:

- Accept 120V, 220-240V (non-CE), 230V (CE) and 100V input power.
- Control two to six zones of lighting.

#### **GRX-3100 Control Units**

Provide setup using buttons on the Control Unit.

#### **GRX-3500 Control Units**

Provide optional setup using a PC, including setting lighting levels in 1% increments.

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## **Specifications**

#### **Input Power**

- 120V, 220-240V (non-CE), 230V (CE) or 100V, 50/60Hz.
- Lightning Strike Protection: Meets ANSI/IEEE standard 62.41-1980. Can withstand voltage surges of up to 6000V and current surges of up to 3000A.

## Lighting Sources/Load Types

Controls the following lighting sources with a smooth, continuous Square Law dimming curve or on a full conduction non-dim basis:

- Incandescent, Tungsten, Magnetic Low Voltage Transformer
- Lutron Tu-Wire® Electronic Fluorescent Dimming Ballast
- Neon and Cold Cathode

Controls the following lighting sources with a smooth continuous Square Law dimming curve through separate power interfaces:

- Electronic Low Voltage Transformer
- Lutron Electronic Fluorescent Dimming Ballast

#### **Preset Control**

- 4 preset lighting scenes and off are accessible from the Control Unit front panel.
- 12 additional scenes are stored in the Control Unit. These scenes are accessible via Wallstations and/or Control Interfaces.
- Light levels fade smoothly between scenes. Fade time can be set differently for each scene, between 0-59 sec. or 1-60 min. Fade time from Off is capped at 5 sec.

#### **Key Design Features**

- Meets IEC 801-2. Tested to withstand 15kV electrostatic discharge without damage or memory loss.
- Compensates in real time for incoming line voltage variations: No visible flicker with +/-2% change in RMS voltage/cycle and +/-2% Hz change in frequency/second.
- 10-year power failure memory automatically restores lighting to levels prior to power interruption.
- Faceplate snaps on with no visible means of attachment.

#### System Communications and Capacities

- Low-voltage type Class 2 (PELV) wiring connects Control Units, Wallstations, and Control Interfaces:
- Up to 8 Control Units may be linked to control up to 48 zones.
- Up to 16 total Wallstations and Control Interfaces may be added for a total of 24 control points.

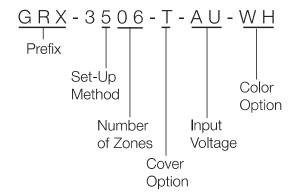
#### **Environment**

• 32-104°F (0-40°C). Relative humidity less than 90% non-condensing.

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### How to Build a Model Number



#### Prefix:

**GRX** for Grafik Eye 3000 Series Control Units

### Set-Up Method:

1 for standard via front panel 5 for PC setup

#### **Number of Zones:**

2, 3, 4, or 6

#### **Cover Option:**

A for Opaque

T for Translucent Black

## Input Voltage

\_\_ (no code) for 120V Single Feed **AU** for 220-240V (non-CE) **CE** for 230V (CE) JA for 100V

### **Color Option:**

See Color Options list

#### **Cover Options**

Opaque Α Cover and Base will match. Translucent Black Black Cover and choice of base color.

Also available:

- Custom controls
- Color matching
- Engraving

These options ship in 4 to 6 weeks

### **Color Options**

### Architectural Matte Finishes

Standard - Ship in 48 hours Cover Option: A or T White WH Ivory IV Beige BE GR Gray BR Brown

#### **Designer Gloss Finishes**

BL

Black

Ship in 4 to 6 weeks Cover Option: A only White **GWH** Light Almond GLA GAL Almond **GIV** Ivory

#### Satin Color Matte Finishes

Cover Option: A or T Hot Ochre OC Terracotta TC Desert Stone DS Stone ST LS Limestone BT Blue Mist MN Midnight TP Taupe BI **Biscuit** Eggshell ES Snow SW

### **Architectural Metal Finishes**

Cover Option: T only **Bright Brass** BB Bright Chrome BC Satin Brass SB Satin Chrome SC Satin Nickel SN Antique Brass QB Antique Bronze QZ Bright Nickel ΒN

#### **Anodized Aluminum Finishes**

Cover Option: T only Clear CLA Black BLA Brass **BRA** BZA Bronze

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# **Model Numbers**

# 120V Input Power

Number of Zones	Standard Setup	PC Setup	Unit Capacity (Watts/VA)	Zone Capacity (Watts/VA)
2 3	GRX-3102	GRX-3502	1200	800
	GRX-3103	GRX-3503	1500	800
4	GRX-3104	GRX-3504 <u>_</u>	2000	800
6	GRX-3106	GRX-3506 <u>_</u>	2000	800

# 220-240V (non-CE) Input Power

Number of Zones	Standard Setup	PC Setup	Unit Capacity (Watts/VA)	Zone Capacity (Watts/VA)
2	GRX-3102AU	GRX-3502AU	1600	1200
3	GRX-3103AU	GRX-3503AU	2400	1200
4	GRX-3104AU	GRX-3504AU	3000	1200
6	GRX-3106AU	GRX-3506AU	3000	1200

# 230V (CE) Input Power

Number of Zones	Standard Setup	PC Setup	Unit Capacity (Watts/VA)	Zone Capacity (Watts/VA)
2	GRX-3102CE	GRX-3502CE	1600	800
3	GRX-3103CE	GRX-3503CE	2300	800
4	GRX-3104CE	GRX-3504CE	2300	800
6	GRX-3106CE	GRX-3506CE	2300	800

# 100V Input Power

Number of Zones	Standard Setup	PC Setup	Unit Capacity (Watts/VA)	Zone Capacity (Watts/VA)
2	GRX-3102JA	GRX-3502JA	1000	600
3	GRX-3103JA	GRX-3503JA	1250	600
4	GRX-3104JA	GRX-3504JA	1600	600
6	GRX-3106JA	GRX-3506JA	1600	600

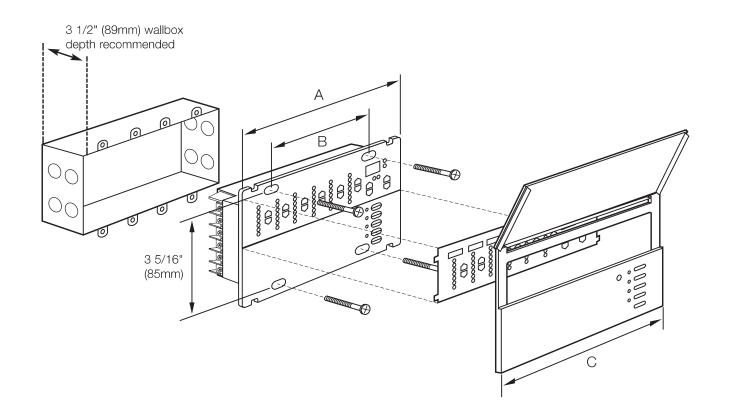
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# Dimensions and Mounting - All Voltages Except 230V (CE)

Model		Side View	А	В	С	Wallbox <sup>1</sup> U.S. Size	Depth
2-Zone: GRX-3102 GRX-3502	0 · · · · · · · · · · · · · · · · · · ·	5/16" 1 15/16" (8 mm) (49 mm)	4 5/16" (123mm)	1 13/16" (46mm)	5.56" (141mm)	2 Gang	3.5" (89mm)
3-Zone: GRX-3103 GRX-3503	* : : : : : : : : : : : : : : : : : : :		6 11/16" (168mm)	3 5/8" (92mm)	7.25" (184mm)	3 Gang	3.5" (89mm)
4-Zone: GRX-3104 GRX-3504	• :ee	4 9/16" (116 mm)	8 5/16" (208mm)	5 7/16" (138mm)	8.94" (227mm)	4 Gang	3.5" (89mm)
6-Zone: GRX-3106 GRX-3506	° ::::::::::::::::::::::::::::::::::::		8 5/16" (208mm)	5 7/16" (138mm)	8.94" (227)	4 Gang	3.5" (89mm)



<sup>&</sup>lt;sup>1</sup> Can be ordered from Lutron.

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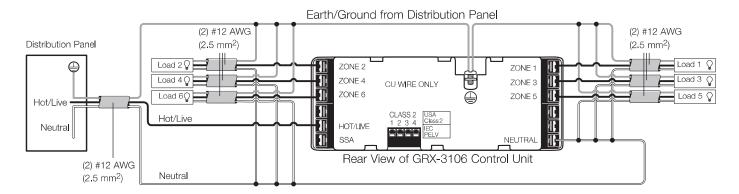
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# Line Voltage Wiring - 120V, 100V, 220-240V Models

- Pull power wiring from distribution panel and to light fixtures.
- Each line voltage terminal can accept up to two #12 AWG (2.5mm²) wires.



#### Consult Lutron for:

- Non-dim relay wiring.
- Load side emergency transfer wiring.

# Low-Voltage Class 2 (PELV) Wiring

- System communications use low-voltage Class 2 (PELV) wiring.
- Wiring must be daisy-chained.
- Wiring must run separately from line (mains) voltage.

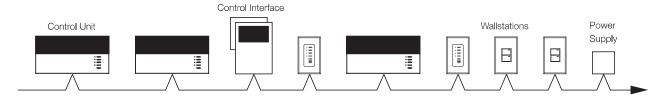
Class 2 (PELV) wiring link requires:

Two #12 AWG (2.5mm²) conductors for control power.

One twisted, shielded pair of #18 AWG (0.625mm<sup>2</sup>) for data link.

Total length of Control Link may be up to 2,000 ft. (610m). Approved low-voltage cable is available from Lutron<sup>1</sup>, Belden, and Liberty.

These are approved with #22 AWG data link wires.



<sup>&</sup>lt;sup>1</sup> GRX-CBL-346S Class 2 (PELV) wiring cable is available from Lutron and contains: Two #12 AWG (2.5mm<sup>2</sup>) conductors for control power. One twisted, shielded pair of #22 AWG (0.625mm<sup>2)</sup> for data link.

External 12VDC Power Supply is required to power more than three Wallstations and/or Control Interfaces from a single Control Unit.

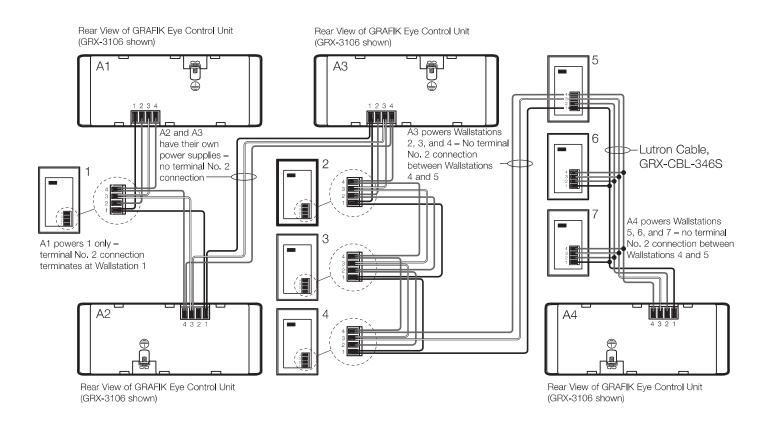
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# Class 2 (PELV) Terminal Connections

- Each Class 2 (PELV) terminal accepts up to two #18 AWG (1.0mm<sup>2</sup>) wires.
- Daisy chain the terminal 1, 3, and 4 connections to all Control Units, Wallstations, and Control Interfaces.
- Each Control Unit has its own power supply. Terminate the terminal 2 connection (12VDC power) so that each Control Unit supplies power to a maximum of three Wallstations. Each Wallstation should receive power from only one Control Unit.
- Total length of Class 2 (PELV) wiring may be up to 2,000 ft. (600m).
- Make all connections in the Control Unit's wallbox. Remote connections (T-taps) must be in a switchbox or junction box with a maximum wire length of 8 ft. (2.5m) from the link to the connected unit.
- Do not allow Class 2 (PELV) wires to contact line/main wires.



#### Note:

- Up to 8 GRAFIK Eye 3000 Series Control Units and 16 Wallstations/Control Interfaces may be daisy-chained together in one system.
- Class 2/PELV cable is available from Lutron order GRX-CBL-346S.

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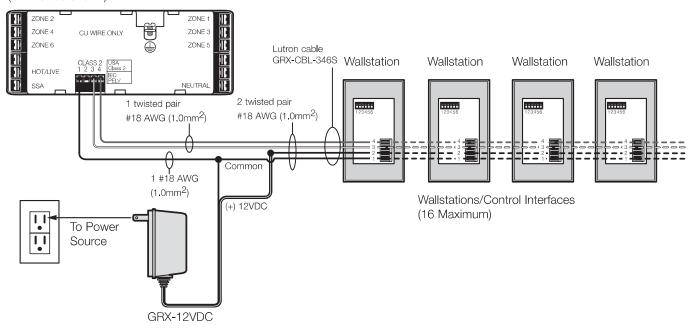
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# **GRX-12VDC Power Supply Wiring**

External 12VDC Power Supply is required to power more than three Wallstations and/or Control Interfaces from a single Control Unit.

Rear View of GRAFIK Eye Control Unit (GRX-3106 shown)



## Note:

Do not connect terminal No. 2 between GRAFIK Eye 3000 Series Control Unit and GRX-12VDC Power Supply

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