

## Cameo® Wireless In-Wall ELV Dimmer, 230V



- > Single-gang in-wall lighting dimmer
- > Configurable standalone functionality
- > Multipoint dimming control option<sup>[1]</sup>
- > Crestron® system integration via infiNET EX® wireless technology
- > Crestron Pyng® system compatible
- > Reverse phase dimming technology
- > Supports dimmable electronic low-voltage, LED, incandescent, and 2-wire fluorescent lighting loads
- > Rated 500 VA/Watts at 230 Volts AC<sup>[2]</sup>
- > Built-in air gap switch
- > Fully configurable button layout
- > Single rocker switch or up to four pushbuttons
- > Custom button engraving available<sup>[1]</sup>
- > Stores up to three scene presets
- > Customizable button functionality<sup>[3]</sup>
- > White LED feedback indicators
- > Flying lead wiring connections
- > US-type 3-1/2 inch (89 mm) deep electrical box installation
- > Available in twelve designer colors and finishes
- > Matching decorator-style faceplates available<sup>[1]</sup>

The Cameo® CLW-DELVEX-230-P is an in-wall lighting dimmer designed to control a range of dimmable lighting load types including electronic low-voltage, LED, incandescent, tungsten-halogen, electronic CFL, and 2-wire fluorescent ballasts. It mounts in a US-type 3-1/2 inch (89 mm) deep electrical box (not included). Its buttons are configurable, engravable, and field-replaceable to allow for a variety of layouts and custom functionality.

A choice of twelve designer colors provides an attractive appearance in any décor.

The CLW-DELVEX-230-P can be operated standalone or integrated with a [Crestron® control system](#) or [Crestron Pyng®](#) system. Ultra-reliable infiNET EX® wireless communications simplifies installation and wiring for both new and retrofit applications. Compatibility with Cameo In-Wall Remote Dimmers ([CLW-SLVU-230-P<sup>\[1\]</sup>](#)) enables multipoint 3- and 4-way lighting control. The CLW-DELVEX-230-P is rated for 500 VA/Watts maximum at 230 Volts AC, 50/60 Hz.<sup>[2]</sup>

### Reverse Phase Dimming

The CLW-DELVEX-230-P employs reverse phase (trailing edge) dimming technology to handle electronic low-voltage (ELV) transformers feeding halogen or LED lighting fixtures. It is also capable of controlling incandescent, tungsten-halogen, dimmable screw-base type CFL and LED bulbs, and 2-wire dimmable fluorescent ballasts.

### Customizable Buttons

Each Cameo dimmer features the ability to configure its [buttons](#) in a variety of layouts to adapt its functionality to the application. Simple up/down dimming and on/off switching can be achieved using a single rocker switch or individual buttons. More sophisticated functionality is afforded using up to four buttons, allowing up to three dimming presets to be stored and recalled at will. Through integration with a control system, buttons may even be assigned to control a second lighting zone, select a whole-room lighting scene composed of several dimmers, turn on a ceiling fan, or adjust the audio system volume.<sup>[3]</sup>

The CLW-DELVEX-230-P is furnished with a complete set of button caps to



Due to differences in monitors, actual colors may vary from colors as they appear onscreen.

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accommodate any desired button layout. Button caps may also be ordered with custom engraving<sup>[1]</sup>, allowing each button to be labeled according to its function. The buttons are field configurable and replaceable, allowing changes to be made at any time.

White LED indicators are included to provide feedback when a button is pressed or a preset is selected. They also function as a bargraph to display the dimming level as the dimmer is adjusted. When the load is turned off, the top LED glows dimly, allowing the dimmer to be located easily in a dark room.

## Multipoint Dimming Control

Controlling a single lighting circuit from more than one location is enabled by adding one or more [CLW-SLVU-230-P](#) remote dimmers.<sup>[1]</sup> Remote dimmers are wired to the CLW-DELVEX-230-P through the high-voltage wiring in a manner similar to conventional 3- or 4-way switching. In fact, it is possible to simply replace the switches in an existing 3- or 4-way wired circuit without installing any new wiring. Up to nine remote dimmers can be connected to a single CLW-DELVEX-230-P, allowing on/off and up/down dimming control of a single lighting load from up to ten locations.

## infiNET EX® Wireless Technology

Wireless integration with a Crestron control system enables the CLW-DELVEX-230-P to be controlled from any Crestron keypad, touch screen, handheld remote, or mobile device app. It can also enable intelligent automation as part of a complete Crestron energy management solution.<sup>[3]</sup>

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Employing a 2.4 GHz mesh network topology, each infiNET EX device (including the CLW-DELVEX-230-P) functions as an expander (routing node), relaying command signals through to every other infiNET EX device within range (typically 46 meters or 150 feet), ensuring that every command reaches its intended destination without disruption.<sup>[4]</sup>

The CLW-DELVEX-230-P communicates with a Crestron control system via an infiNET EX Wireless Gateway (model [CEN-GWEXER](#), [CENI-GWEXER](#), [MC3](#), or [DIN-AP3MEX](#)<sup>[1]</sup>). Up to 100 infiNET EX devices may coexist on a single wireless network, and every device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths.<sup>[4]</sup>

## SPECIFICATIONS

### Load Control

**Dimmer Channels:** 1

**Dimmable Load Types:** Electronic low-voltage, LED, incandescent, tungsten-halogen, electronic CFL, 2-wire fluorescent ballast

**Line/Load Voltage:** 230 Volts AC, 50/60 Hz, dedicated neutral wire required

**Load Rating:** 500 VA/Watts maximum<sup>[2]</sup>

**Minimum Load:** 10 Watts without CLW-SLVU-230-P;  
25 Watts with CLW-SLVU-230-P

### Controls & Indicators

**Buttons:** Configurable with one 2-position rocker or up to four single-action pushbuttons, refer to the Operations & Installation Guide for all possible configurations and functions

**Button Caps:** Includes (1) rocker, (2) large, and (4) small button caps; all button caps are blank, [custom engraved button caps](#) are available separately

**Button Modes:** Local (default functionality, no control system required), Remote (custom functionality via a control system)

**Feedback LEDs:** (7) White LEDs, indicate the current button press or active preset, displays the dimming level as a 7-segment bargraph

**Air-Gap Switch:** (1) Latching switch, opens the air-gap to de-energize the load output

**Program Button:** (1) Pushbutton, used to store presets and change the button configuration

**Dimming Ramp Rate:** 5 seconds (default), software adjustable 0.01 to 10 seconds

**Preset Fade Time:** 2 seconds (default), software adjustable 0.01 to 120 seconds

### Wireless Communications

**RF Transceiver:** infiNET EX 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15; IEEE 802.15.4 compliant

**Range (typical):** 15 m (50 ft) to gateway or nearest mesh network device(s), subject to site-specific conditions and individual device capabilities, range between floors or ceilings is limited to one level<sup>[4]</sup>

**Gateway:** Requires an infiNET EX gateway or Crestron Pyng control hub<sup>[1]</sup>

### Connections

**Hot:** (1) 1.5 mm<sup>2</sup> (16 AWG) Class 1 flying lead, brown, line power input

**Load:** (1) 1.5 mm<sup>2</sup> (16 AWG) Class 1 flying lead, red, dimmed load output

**Remote:** (1) 1.5 mm<sup>2</sup> (16 AWG) Class 1 flying lead, yellow, remote dimmer connection<sup>[5]</sup>

**Neutral:** (1) 1.5 mm<sup>2</sup> (16 AWG) Class 1 flying leads, blue, neutral

**Ground:** (1) 1.5 mm<sup>2</sup> (16 AWG) Class 1 flying lead, green/yellow, ground

### Environmental

**Temperature:** 0° to 40° C (32° to 104° F)

**Humidity:** 10% to 90% RH (non-condensing)

### Construction

**Composition:** Plastic housing and front face with metal bracket

**Mounting:** Mounts in a US-type 1-gang (or larger) 3-1/2 inch (89 mm) deep electrical box (not included)

**Faceplate:** Requires a decorator-style faceplate (sold separately)

### Dimensions

**Height:** 105 mm (4.13 in)

**Width:** 45 mm (1.75 in)

**Depth:** 46 mm (1.80 in)

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## Weight

142 g (5 oz)

## Compliance

CE, C-Tick

## MODELS & ACCESSORIES

### Available Models

**CLW-DELVEX-230-P-A-S:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, Almond Smooth

**CLW-DELVEX-230-P-A-T:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, Almond Textured

**CLW-DELVEX-230-P-B-S:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, Black Smooth

**CLW-DELVEX-230-P-B-T:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, Black Textured

**CLW-DELVEX-230-P-BRN-S:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, Brown Smooth

**CLW-DELVEX-230-P-DA-S:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, Dark Almond Smooth

**CLW-DELVEX-230-P-DSK-T:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, Dusk Textured

**CLW-DELVEX-230-P-GRY-S:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, Gray Smooth

**CLW-DELVEX-230-P-IVR-S:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, Ivory Smooth

**CLW-DELVEX-230-P-LAT-T:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, Latte Textured

**CLW-DELVEX-230-P-W-S:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, White Smooth

**CLW-DELVEX-230-P-W-T:** Cameo® Wireless In-Wall Dimmer, ELV, 230V, White Textured

### Available Accessories

**CLW-BTN-SM:** Small Engravable Button Cap for Cameo® In-Wall Dimmers

**CLW-BTN-LG:** Large Engravable Button Cap for Cameo® In-Wall Dimmers & Switches

**CLW-BTN-RKR:** Rocker Engravable Button Cap for Cameo® In-Wall Dimmers & Switches

**FP-G Series:** Decorator-Style Faceplates

**CLW-SLVU-230-P:** Cameo® In-Wall Remote Dimmer, 230V

**CEN-GWEXER:** infiNET EX® & ER Wireless Gateway

**CENI-GWEXER:** infiNET EX® & ER Wireless Gateway – International Version

**MC3:** 3-Series Control System® w/infiNET EX® & ER Wireless Gateway

**DIN-AP3MEX:** DIN Rail 3-Series® Automation Processor w/infiNET EX® & ER Wireless Gateway

**GLA-EXPEX:** Crestron Green Light® Wireless Expander for infiNET EX® Networks

## Notes:

1. Item(s) sold separately.
2. Load capacity is derated when installed with other devices in a multi-gang electrical box. Derating is as follows: 400W if installed adjacent to another device, 250W if installed between two devices.
3. Control of a second lighting zone or whole-room lighting scene, control of audio equipment, fan motors, and other equipment, or remote control and automation from a control system, requires the purchase and installation of additional hardware and custom programming services. Contact a Crestron representative for additional information.
4. The CLW-DELVEX-230-P and other AC-powered infiNET EX devices function as "routing nodes," which effectively extend the range of the wireless network beyond the initial range of the gateway. A maximum of six "hops" across routing nodes is allowed, although a maximum of three is recommended. Battery-powered infiNET EX devices only operate as leaf nodes and do not extend range. If needed, up to five dedicated infiNET EX expanders (model **GLA-EXPEX**, sold separately) may be deployed to serve as supplemental routing nodes to fill any gaps in coverage. Up to 100 infiNET EX devices are permitted per gateway, although best practices suggest a limit of 50. Refer to the "Installation and Setup of Crestron RF Products, Best Practices" guide ([Doc #6689](#)) for additional guidelines.
5. For connection to one or more Crestron model **CLW-SLVU-230-P** remote dimmers. A maximum of nine (9) remote dimmers is permitted. Not compatible with conventional mechanical 3- or 4-way switches.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/salesreps](http://www.crestron.com/salesreps) or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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