

Universal Phase In-Wall Dimmer, 230VAC

- > Field-replaceable and engravable buttons
- > Available in anthracite or white finishes
- > infiNET EX® robust communication
- > Configurable up to six buttons
- > Supports any third party maintained or momentary switch for remote dimming
- > Screw-clamp connectors for easy installation
- > Stylish bargraph LED array provides real-time status feedback

The CLWI-DIMUEX delivers native Crestron® dimming control to any light in new or retrofit 230 Volt applications. Featuring reliable infiNET EX® wireless technology, the CLWI-DIMUEX can be installed in virtually any location because of reliable mesh networking. Universal dimming provides automatic compatibility with both forward- and reverse- phase loads.

Field-Replaceable and Engravable Buttons

The CLWI-DIMUEX features engravable buttons that can be swapped out in the field. Any change in room décor or functionality is easy to handle long after the dimmer or switch has been installed. Positive snap-on fittings require no tools. Configure the dimmer or switch with a large rocker or any combination of up to two adjacent half-size rockers or triple button pad. Each CLWI-DIMUEX ships with a full assortment of blank buttons as well.

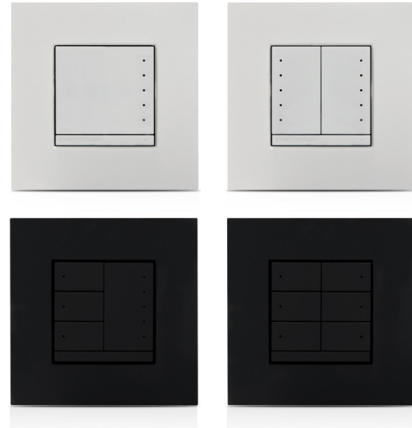
Integrated Keypad

Because the CLWI-DIMUEX is attached to the Crestron network, it can also function as a keypad, sending commands to trigger whole-room lighting scenes or distributed audio functions. Supporting up to six buttons, the in-wall dimmer or switch serves as a great control interface in any Crestron system. Its single-box form factor maximizes control capability in a small space while increasing the opportunity for Crestron control in every room. Also available are aesthetically-matched standalone keypads that use Cresnet® or infiNET EX communications.

infiNET EX

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 functions as an expander, passing command signals through to every other infiNET EX device within range (approximately 150 feet or 46 meters indoors), ensuring that every command reaches its intended destination without disruption.^[1]

The CLWI-DIMUEX communicates with a Crestron control system via an infiNET EX Wireless Gateway (model [CEN-GWEXER](#), [DIN-AP3MEX](#), or [MC3^{\[2\]}](#)). Up to 100 infiNET EX devices may coexist on a single wireless network, and every non-battery-powered device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths.^[1] Built-in Dynamic Frequency Allocation continuously monitors RF conditions, automatically selecting the clearest channel to prevent interference from neighboring networks, cordless phones, and microwaves.



Streamlined Installation

In addition to field replaceable buttons, the CLWI-DIMUEX features screw-clamp connectors for simplified wiring and reduced installation time and material costs. So slim, the CLWI-DIMUEX can be installed in square gang boxes making them the perfect choice for both new and retrofit projects.

Remote Dimmer

The CLWI-DIMUEX supports dimming control of the same lighting load from more than one location—without requiring a special remote dimmer. Connect any standard maintained or momentary switch to the “remote” terminal on the CLWI-DIMUEX for on/off control. Momentary “push-button” switches provide full dim up/down and on/off control. Easily replace existing dimmers and switches wired in a traditional multi-way circuit with dim control from every location, or design new projects to accommodate remote dimmers wherever desired.

SPECIFICATIONS

Load Ratings

Load Types: Incandescent, Tungsten-Halogen, Magnetic Low Voltage, Dimmable CFL, Electronic Low Voltage, Phase Control Dimmable LED
Maximum Load Per Channel: 450 VA/Watts
Minimum Load Per Channel: 50 Watts

Power Requirements

220-240 Volts AC, 50/60 Hz, line power

Controls

Buttons: Configurable for 1 rocker (up/down), or any combination of up to 2 small rockers and/or 2 three-button pad; Maximum layout contains 6 buttons; each press configurable for up to 3 discrete functions via single click, double click and hold; Programmable via control system

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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

LED Indicator

Feedback: Up to (10) White LEDs, depending on button configuration

Wireless

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): 150 ft (46 m) indoor, 250 ft (76 m) outdoor to nearest mesh network device(s);

Subject to site-specific conditions and individual device capabilities^[1]

Gateway: Requires an infiNET EX gateway^[2]

Connections

Hot: (1) 14-12 AWG (1 x 1.5 – 2.5 mm²), screw terminal, line power input

Remote: (1) 14-12 AWG (1 x 1.5 – 2.5 mm²), screw terminal, remote switch

Load: (1) 14-12 AWG (1 x 1.5 – 2.5 mm²), screw terminal, load output

Ground: (1) screw post, ground

Environmental

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

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

Enclosure

1-gang mountable in a 35 mm deep square or round electrical box in horizontal or vertical positioning;
Requires faceplate (not included)^[3]

Dimensions

Height: 2.80 in (72 mm)

Width: 2.89 in (74 mm)

Depth: 1.24 in (32 mm) including front face w/ buttons

Weight

3.0 oz (85 g)

MODELS & ACCESSORIES

Available Models

CLWI-DIMUEX-ANTH: Universal Phase In-Wall Dimmer, 230VAC, Anthracite

CLWI-DIMUEX-W: Universal Phase In-Wall Dimmer, 230VAC, White

Available Accessories

CEN-GWEXER: infiNET EX® & ER Wireless Gateway

CEN-GWEXER-PWE: infiNET EX® & ER Wireless Gateway w/ PoE Injector

CENI-GWEXER: infiNET EX® & ER Wireless Gateway - International Version
CENI-GWEXER-PWE: infiNET EX® & ER Wireless Gateway w/ PoE Injector - International Version

MC3: 3-Series Control System® w/infiNET EX®

DIN-AP3MEX: DIN Rail 3-Series® Automation Processor w/infiNET EX®

CLW-EXPEX-GD-W-T: infiNET EX® Wireless Expander, Ground Pin Down, White Textured

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

CLWI-BTN-RKRLG-ANTH_ENGRAVED: Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Includes Custom Engraving

CLWI-BTN-RKRLG-W_ENGRAVED: Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Includes Custom Engraving

CLWI-BTN-RKRSM-ANTH_ENGRAVED: Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Includes Custom Engraving

CLWI-BTN-RKRSM-W_ENGRAVED: Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Includes Custom Engraving

CLWI-BTN-SM-ANTH_ENGRAVED: Small Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Includes Custom Engraving

CLWI-BTN-SM-W_ENGRAVED: Small Engravable Button Cap for International In-Wall Dimmers & Switches, White, Includes Custom Engraving

CLWI-BTN-RKRLG-ANTH_BLANK: Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Engraving Not Included

CLWI-BTN-RKRLG-W_BLANK: Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Engraving Not Included

CLWI-BTN-RKRSM-ANTH_BLANK: Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Engraving Not Included

CLWI-BTN-RKRSM-W_BLANK: Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Engraving Not Included

CLWI-BTN-SM-ANTH_BLANK: Small Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Engraving Not Included

CLWI-BTN-SM-W_BLANK: Small Engravable Button Cap for International In-Wall Dimmers & Switches, White, Engraving Not Included

Notes:

1. Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices do not provide expander functionality. Wireless networks composed predominantly of battery-powered devices may need additional infiNET EX expanders, such as the CLW-EXPEX or GLA-EXPEX (sold separately), or other non-battery powered infiNET EX devices to ensure proper functionality of the network and battery life for the devices. Refer to the **Best Practices for Installation and Setup of Crestron RF Products, Doc. #6689** for complete system design guidelines, or contact [Crestron True Blue Support](mailto:info@crestron.eu) for further assistance.
2. Item(s) sold separately.
3. Faceplate not included. Requires an FP-INTENSE or FP-PURE faceplate, available in 18 colors and finishes up to 5-gang in size. Contact Crestron International by phone: +32.15.50.99.50 or email: info@crestron.eu.

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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 or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Certain Crestron products contain open source software. For specific information, visit www.crestron.com/opensource.

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CAD DRAWINGS

