CM2-DIMUEX

Cameo® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 100-240VAC

Shown in White Smooth, Custom Engraved

- *Universal dimming - reverse phase and forward phase - with auto load detection*
- *Over current protection*
- *Supports multiway controllers that provide control using a traveler wire in a traditional three- or four-way circuit (CM2-AUX and CM2-KPEX, sold separately)*
- *1- to 4-gang U.S. wall box installation using Cameo® 2 multi-gang faceplates (CM2-FP-G series, sold separately) or any decorator-style faceplate*
- *Robust infiNET EX® wireless communication*
- *Full color RGB LED backlight and indicators for engraved buttons*
- *Backlight and indicators capable of dynamically adjusting white between 2000K and 8000K*
- *Optionally engraved and separately backlit indicators available in two different aesthetics allowing a customized look and user experience*
- *Ambient light sensor for auto-dimming backlight with separate day and night modes*
- *Fully programmable via a Crestron control system*
- *Local load control without programming when using a rocker*
- *Works with or without neutral wire connection*
- *Crestron Home® OS compatible*
- *Available in eight different color and finish options*
- *RKR devices come with a large rocker button that either has standard engraving or can be customized*
- *Full keypad devices come with six buttons with default engraving, or can be customized with up to 136 button configurations and custom engraving*
- *Individually field replaceable buttons available to accommodate changes in device function, color, or engravings*
- *Blank buttons available for engraving by a third-party*

The CM2-DIMUEX Cameo® 2 in-wall universal phase dimmer provides infiNET EX® wireless network control of LED, incandescent, magnetic low voltage, and electronic low voltage loads. It has the ability to adjust minimum and maximum light levels and to set the dimming curve to be linear, logarithmic, or use a custom curve. Its design matches the entire line of Cameo 2 dimmers, switches, and keypads, making it a great addition to new or retrofit installations.

- CM2-DIMUEX-RKR-W-S ships in White Smooth with a preinstalled large rocker button with default engraving.
- CM2-DIMUEX-W-S ships in White Smooth with six preinstalled buttons with default engraving.
- CM2-DIMUEX-RKR ENGRAVED can be configured with a large rocker button with custom engraving.
- CM2-DIMUEX ENGRAVED can be configured with one of up to 136 different button configurations with custom engraving.

ENGRAVED models are available in the following finishes (specified in the custom engravings file):

  - W-S: White Smooth
  - W-T: White Textured
  - B-S: Black Smooth
  - B-T: Black Textured
  - A-S: Almond Smooth
  - A-T: Almond Textured
  - G-S: Gray Smooth
  - G-T: Gray Textured

Universal Phase Dimming

The CM2-DIMUEX features auto-load detection to automatically select the appropriate dimming method for the attached load. Auto-load detection allows for broad load type compatibility even if the load type is changed in the future.

Integrated Keypad

Full keypad models support two to six buttons, with small, medium, and large button options. The bottom four buttons can function as side-to-side rockers via programming. RKR models only accept large rocker buttons. When connected to a Crestron control processor, the keypad can trigger remote actions.

Button Engraving

Functions of each button can be identified with custom, laser-etched engraving. Engraving is included with ENGRAVED models.

When a custom engraved model is ordered, the engraved buttons are installed on the device before it is shipped. Engraving files must be provided when ordering and can be

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created using Impress Custom Engraving Software, the Crestron Home® Setup app, or the Crestron Home Online Configurator. If necessary, custom engraving can be changed until the order is processed by emailing orders@crestron.com with the updated engraving file and order information.

To order replacement engravings, refer to the CM2-BTNS ENGRAVED buttons product page.

> **NOTE:** Buttons without engraving (BLANK models) are also available and can be used as is or can be custom engraved by a third-party engraver.

Multicolor Backlit Buttons and Indicators

Full keypad models have buttons with separately backlit custom engravings and indicators. Indicators are optional per button and can be engraved in a line or dot aesthetic. Custom engravings and indicators are illuminated using the device's RGB LED backlights. Each button and indicator can be assigned custom color backlighting.

Feedback can be provided through indicators, custom engravings, or both. Feedback can be performed by turning on or off, changing intensity, changing color, or flashing to show that an action is being performed. Backlighting and feedback colors can be adjusted using Crestron Home software or other Crestron programming tools.

RKR devices have the ability to use a bargraph instead of or in addition to separately backlit indicators. The bargraph is optional and can be engraved in a line or dot aesthetic. Remote or local level feedback can be provided through the bargraph all the time or temporarily when a change in level is detected.

Local color theme sets the colors for custom engravings and indicators on the device. Each backlit area can also be assigned an alternate color theme. Thirteen local color themes are available that include Tunable White (default is Warm White), Neutral White, Cool White, Dim to Warm, Circadian (through Crestron Home), and a variety of common and custom colors. The local and alternate color themes can be changed programmatically.

Field-Replaceable Buttons

Field-replaceable buttons allow for changes in device function or for the customer to use the system before finalizing the engravings. The buttons can be individually replaced with custom engraved or blank CM2-BTNS buttons.

> **NOTE: -RKR** (rocker) models only accept large rocker buttons.

Neutral Wire Optional

The CM2-DIMUEX does not require a neutral wire, but Crestron recommends connecting one if it is present. Advanced features such as selectable device power modes and a no neutral max dim level calibration ensure compatibility with most load types. Certain LED loads may not function properly or may not dim high enough without a neutral wire at the dimmer. In this situation, a third-party load bypass (for example, Aeotec® Bypass ZW150-Z) may be installed at the load pursuant to the third-party manufacturer's specifications and instructions.

Multigang Expansion

Install Cameo® 2 devices side-by-side in a US multigang electrical box with a CM2-FP-G series faceplate or a third-party decorator faceplate.

Ambient Light Sensor

To ensure optimal visibility under varying lighting conditions, the button backlighting and indicator intensity adjusts automatically according to the amount of ambient light in the room.

Multiway Control

The CM2-DIMUEX supports load control from multiple locations. Up to four CM2-AUX or CM2-KPEX devices (sold separately) can be connected to a traveler wire in a traditional three- or four-way circuit to control an attached load. The CM2-KPEX provides button backlights and full keypad options while the CM2-AUX provides no button backlight and only accommodates a single large rocker button.

Standard Wall Mount

Cameo 2 keypads fit standard US electrical wall boxes and all decorator form factor faceplates.

infiNET EX Communications

infiNET EX wireless technology provides two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Each infiNET EX device acts as an expander by sending command signals to other infiNET EX devices in range (approximately 150 ft (46 m) indoors) to ensure reliability and stability.

The device communicates with a control system via a Crestron Wireless Gateway (sold separately). Up to 100 infiNET EX devices may coexist on a wireless network.

> **NOTE:** 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. A dedicated infiNET EX Wireless Expander is also available (CLW-EXPEX, sold separately).

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Specifications

Load Requirements

Incandescent, Tungsten Halogen, Magnetic Ballast, Electronic Ballasts, CFL, LED	500 W/VA @ 100VAC; 600 W/VA @ 120-240VAC; No minimum load with neutral
No Neutral Minimum Load[1]	5 W Incandescent; 2 Bulbs[2] LED
Motor	1/8 HP

Power Requirements

Line Power	100-240 VAC, 50/60 Hz

Controls

Buttons	RKR models: Large rocker Full keypad models: 2 to 6 buttons programmable via control system; The bottom 4 buttons can be programmed to be side to side rockers.
Button Events	Programmable for Normal, Tap, Double-Tap, and Press and Hold
Button Caps	RKR models include one large rocker; Standard engraved full keypad models include 6 small buttons; ENGRAVED models include custom engraving on small, medium, or large button types in any available combination.RKR models are limited to large rockers.

LED Indicator

Feedback (-RKR)	(3) RGB backlit text regions; Full RGB backlit bargraph that can also function as 3 RGB indicator regions
Feedback (Full Keypad)	(6) RGB backlit text regions and 6 RGB indicator regions

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
Gateway	Requires a Crestron Wireless Gateway (sold separately)

Connections

HOT	(1) 14-12 AWG, screw terminal, black, line power input
REM	(1) 14-12 AWG, screw terminal, blue, remote
LOAD	(1) 14-12 AWG, screw terminal, brass, load output
NEU	(1) 14-12 AWG, screw terminal, silver, neutral; Neutral wire connection is optional, but is recommended for best performance.
GND	(1) 14-12 AWG, screw terminal, green, earth

Environmental

Temperature	32° to 86°F (0 °to 30°C)
Humidity	10% to 95% RH (noncondensing)

Construction

Mounting	Mounts into any gang U.S. electrical box; 3.5 in. (26 mm) electrical box depth recommended; Derating required in multigang applications. Refer to the product manual for details.

Dimensions

Height	4.06 in. (103 mm)
Width	1.75 in. (45 mm)
Depth	1.59 in. (40 mm)

Compliance

Regulatory Model: M202311001

FCC Part 15 Class B, IC Class B, CE, Intertek® Listed for US and Canada

Models

CM2-DIMUEX ENGRAVED
Cameo® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 100-240VAC, Full Keypad, Custom Engraved

CM2-DIMUEX-RKR ENGRAVED
Cameo® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 100-240VAC, Rocker Only, Custom Engraved

CM2-DIMUEX-W-S
Cameo® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 100-240VAC, Full Keypad, Standard Engraved, White Smooth

CM2-DIMUEX-RKR-W-S
Cameo® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 100-240VAC, Rocker Only, Standard Engraved, White Smooth

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Available Accessories

For a list of available accessories, visit the CM2-DIMUEX product page.

Notes:

1. The dimmer has five settable power modes to optimize no neutral performance: Normal, Low Power with Aux, Low Power without Aux, Lowest Power with Aux, and Lowest Power without Aux. The specified minimum loads are with the default Low Power with Aux no neutral power mode. No neutral calibration sets the maximum dim level possible with the connected load. The minimum load varies depending on power mode selection and maximum dim level desired.
2. No neutral performance with LED loads varies manufacturer to manufacturer. You may need to select a lower power mode and rerun the no neutral calibration. In some situations, a third-party load bypass (for example, Aeotec® Bypass ZW150-Z) may need to be installed at the load pursuant to the third-party manufacturer's specifications and instructions.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English.
All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

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

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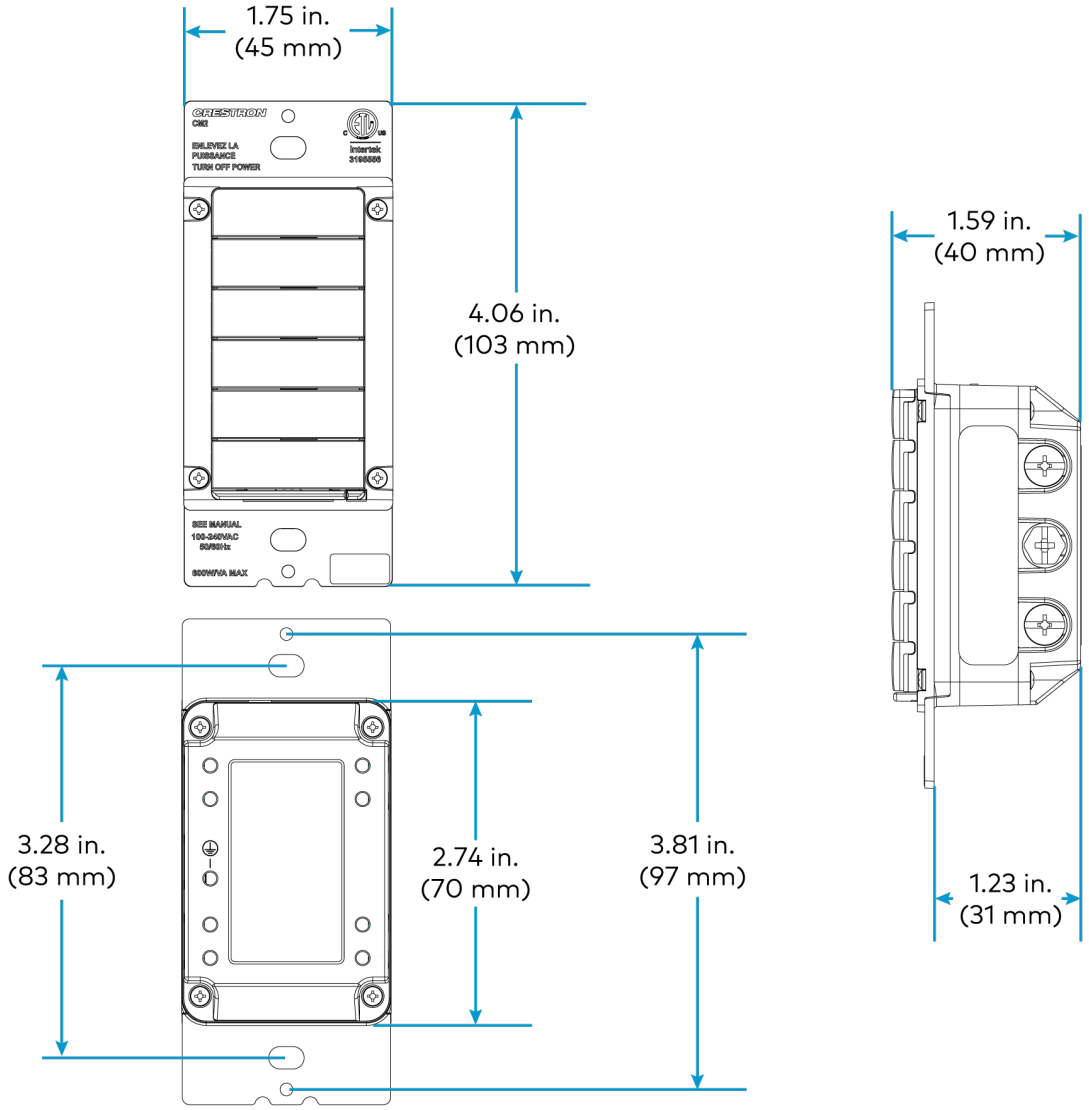
Full Keypad Model Shown



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