

HZ2-DIMUEX

Horizon® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC



Shown with Custom Engraving on a Style 6 Button Assembly, Faceplate not included

- 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 ([HZ2-AUX](#) and [HZ2-KPEX](#), sold separately)
- 1- to 4-gang U.S. wall box installation
- Mount up to four Horizon® 2 devices with Horizon 2 multi-gang faceplates ([HZ2-FP-G](#) series, sold separately)
- Robust infiNET EX® wireless communication
- Preinstalled large rocker button assembly (Style 6) with Default Engraving or can be configured with six different button assemblies with Custom Engraving
- Multicolor RGB LEDs provide backlighting for engraved buttons - a different color can be set for each button, including white
- White LED backlighting is available and can be set between 2000K and 8000K
- Replacement button assemblies available in six styles to accommodate changes in device function or updated engravings
- Blank button assemblies can be engraved by a third-party
- Ambient light sensor for auto-dimming day and night backlight modes
- Fully programmable via a Crestron control system
- Local button functionality for load control without programming
- Requires neutral wire connection
- Crestron Home® OS compatible
- Available in white, almond, and black

The [HZ2-DIMUEX](#) is a Horizon® 2 in-wall universal phase dimmer that 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 Horizon dimmers, switches, and keypads, making it a great addition to new or retrofit installations.

The HZ2-DIMUEX is available with default engraving on a rocker button assembly (Style 6) or custom engraving on any style button assembly.

- Default engraving on a rocker button assembly (Style 6) is provided with the HZ2-DIMUEX-A, HZ2-DIMUEX-W, and HZ2-DIMUEX-B. The default engraving includes a simple dot to provide feedback and indicate where the button can be pressed.



- Custom engraving on any style button assembly is provided with the HZ2-DIMUEX-A ENGRAVED, HZ2-DIMUEX-W ENGRAVED, and HZ2-DIMUEX-B ENGRAVED. The custom engraved button assembly is installed prior to shipment and replaces the default button assembly with default engraving.



NOTE: Faceplates are not included. Refer to the [HZ2-FP-G series](#) faceplates for more information.

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Universal Phase Dimming

The HZ2-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

Supporting up to five buttons in six available button configurations, the HZ2-DIMUEX is configurable for a variety of applications. Because the device is attached to the Crestron® network, it can function as a keypad to trigger remote actions.

Button Engraving

Custom laser-etched engraving is used to identify the functionality of each button on the button assembly. When a custom engraved model is ordered, the engraved button assembly is installed on the device before it is shipped. Create engraving files using Impress, the Crestron Home Setup app, the Crestron Home Online Configurator, or D3Pro. If necessary, custom engraving can be changed up until the order is processed by emailing orders@crestron.com with the engraving file.

If the engraving or button assembly has not been finalized before an order is placed, default engravings can be replaced with custom engravings by sending an engraving file to orders@crestron.com before the order ships. If the updated engraving order maintains the same product types and quantities as the original order, it will be processed in the order that it was originally received.

To order replacement engravings, refer to the [HZ2-BTNS ENGRAVED](#) button assembly product page.

Button assemblies without engravings (BLANK models) are available separately and can be used as-is or custom engraved by a third-party engraver.

NOTE: Devices ordered with custom engraving (ENGRAVED models) are provided with the button assembly indicated on the engraving order. The button assembly is installed prior to shipment and replaces the default button assembly with default engraving.

Multicolor Backlit Buttons

The engraved buttons are illuminated using the device's RGB LED backlights. Each button can be assigned custom color backlighting. The LED backlight provides feedback by changing the intensity, changing the color, or flashing to show that an action is being performed.

Local color theme sets the colors for all buttons on the device. In addition to the local color theme, each button can be assigned an alternate color theme. Thirteen local color themes are available that include Tunable White (default is Warm

White), Neutral White, Cool White, and a variety of common colors. The local color theme and alternate color themes can be changed programmatically.

Field-Replaceable Button Assemblies

The field-replaceable button assemblies allow for changes in device function or to allow the customer to use the system before finalizing the engravings. The button assembly can be replaced with any of the six [HZ2-BTNS](#) button assembly configurations and are available with custom engraving (ENGRAVED models) or no engraving (BLANK models).

The HZ2-BTNS series button assemblies and HZ2-DIMUEX ENGRAVED devices are available in the following styles:

- **HZ2-BTNS-1 (Style 1):** 5 single buttons



- **HZ2-BTNS-2 (Style 2):** 4 single buttons and 1 split rocker button; Split rocker button is located in the lowest button position



- **HZ2-BTNS-3 (Style 3):** 4 single buttons and 1 split rocker button; Split rocker button is located in the second lowest button position



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- **HZ2-BTNS-4 (Style 4):** 3 single buttons and 2 split rocker buttons; Split rocker buttons are located in the two lowest button positions



- **HZ2-BTNS-5 (Style 5):** 1 medium rocker button and 2 single buttons; Single buttons are located in the two lowest button positions



- **HZ2-BTNS-6 (Style 6):** 1 large rocker button



Multigang Expansion with Horizon 2 Faceplates

Install up to four Horizon® 2 devices side-by-side in a US multigang electrical box with a compatible [HZ2-FP-G](#) series faceplate. When multiple devices are installed in a 2-, 3-, or 4-gang faceplate, the buttons on the devices are aligned to form one continuous control surface.



NOTE: Derating is required for multigang installations. For details, refer to the [Horizon® 2 Product Manual](#).

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 HZ2-DIMUEX supports load control from multiple locations. Up to four [HZ2-AUX](#) or [HZ2-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 HZ2-KPEX provides button backlights and six different engravable button assembly options while the HZ2-AUX provides no button backlight and a single large rocker button assembly (Style 6).

Standard Wall Mount

Horizon keypads are designed for installation in a standard electrical wall box, making them perfect for installation in a multi-gang box alongside other Horizon devices.

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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).

Specifications

Load Control

Load Type	LED, Incandescent, Magnetic Low Voltage, Electronic Low Voltage
Load Rating	600 W/VA maximum; No minimum load
Preset Fade Time	1 second (default), when operated without a control system; Fade time is adjustable when controlled by a control system

Power Requirements

120VAC, 50/60 Hz;
Requires neutral wire connection

Controls

Airgap	(1) Switch at the bottom of the device; Controls power to the device and connected loads
Pushbutton	(9) Pushbuttons, located under the button assembly; Pushbuttons are actuated by the button assembly that is installed
Button Assembly	(1) Button assembly included; Compatible with Style 1–6 button assemblies

Setup

(1) Pushbutton;
Front of the faceplate must be removed to access the pushbutton;
Can be used to set the local LED backlight color theme or calibrate the ambient light sensor

LED Indicator and Light Sensor

LED Feedback

(5) RGB LED backlights;
Supports one local color theme for all LEDs;
Supports one alternate color theme for each backlit position

Light Sensor

(1) Photosensor with adjustable sensitivity;
Detects the ambient room light level to activate day or night mode and autodimming the backlight

NOTE: Light sensor performance may be affected by obstructions placed below the keypad.

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;
Subject to site-specific conditions and individual device capabilities

Gateway

Requires a [Crestron Wireless Gateway](#) (sold separately)

Connections

Load

(1) Screw clamp terminal, consists of (2) wire inserts and (1) red screw head;
Load output;
Accepts (1) 14-12 AWG wire per insert, do not insert wires behind screw head

Line

(1) Screw clamp terminal, consists of (2) wire inserts and (1) black screw head;
Line power input;
Accepts (1) 14-12 AWG wire per insert, do not insert wires behind screw head

Neutral

(1) Screw clamp terminal, consists of (2) wire inserts and (1) silver screw head;
Neutral input;
Accepts (1) 14-12 AWG wire per insert, do not insert wires behind screw head

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Remote	(1) Screw clamp terminal, consists of (2) wire inserts and (1) blue screw head; Remote input from HZ2-AUX or HZ2-KPEX ; Accepts (1) 14-12 AWG wire per insert, do not insert wires behind screw head
Ground	(1) 12 AWG flying lead, Class 1, green with yellow stripe; Ground; Wire nut included

Environmental

Temperature	32° to 86°F (0° to 30°C)
Humidity	10% to 90% RH (noncondensing)

Construction

Mounting	Mounts in a 1- to 4-gang U.S. electrical box (not included); Metal mounting ring included; 3.5 in. (26 mm) electrical box depth recommended; Derating required in multigang applications
Faceplate	Requires a Horizon® 2 faceplate with mounting bracket (HZ2-FP-G , sold separately); Metal mounting plate provides precise alignment during device installation and faceplate assembly; Multigang installations require a 2-, 3-, or 4-gang Horizon® 2 faceplate with mounting bracket (HZ2-FP-G , sold separately)

Dimensions

Height	4.38 in. (112 mm)
Width	1.80 in. (46 mm)
Depth	1.75 in. (45 mm) overall, extends 0.44 in. (12 mm) from wall surface when installed

Weight

6.7 oz (190 g)

Compliance

FCC, UL, IC

Regulatory Model: M201849004

To search for product certificates, refer to support.crestron.com/app/certificates.

Models

HZ2-DIMUEX-A ENGRAVED

Horizon® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Almond

HZ2-DIMUEX-B ENGRAVED

Horizon® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Black

HZ2-DIMUEX-W ENGRAVED

Horizon® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, White

HZ2-DIMUEX-A

Horizon® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Almond

HZ2-DIMUEX-B

Horizon® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Black

HZ2-DIMUEX-W

Horizon® 2 In-Wall Universal Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, White

Available Accessories

For a list of available accessories, visit the [HZ2-DIMUEX](#) product page.

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 patents.crestron.com.

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

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