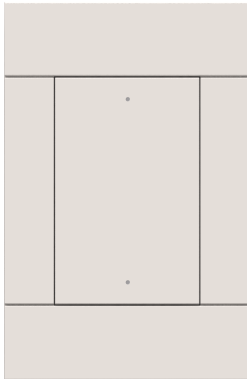# HZ-DIMEX

Horizon™ In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC

Faceplate Not Included

- *Forward phase dimming*
- *Switching mode for nondimmable loads*
- *Supports multiway controllers (HZ-AUX, HZ-KPEX)*
- *Single-gang U.S. wall box installation*
- *Requires neutral wire connection*
- *Gangable up to four across using Crestron® Horizon™ device compatible multi-gang faceplates (HZ-FP-G series, sold separately)*
- *Robust infiNET EX® wireless communication*
- *Preinstalled large rocker button*
- *Configurable with up to five field-replaceable buttons*
- *Custom backlit laser-etched engravable buttons*
- *Multicolor RGB LED backlighting*
- *Auto-dimming day/night backlight modes*
- *Local button for load control without programming*
- *Fully programmable via a Crestron control system*
- *Crestron Home™ OS 3 compatible*

The HZ-DIMEX is a Horizon™ in-wall forward phase dimmer that controls incandescent, magnetic low voltage, and tungsten-halogen loads. Its design matches the entire line of Horizon dimmers, switches, and keypads, making it a great addition to new or retrofit installations.

NOTE: Faceplates are not included. Refer to the HZ-FP-G series faceplates for more information.

Integrated Keypad

Supporting up to five buttons, the HZ-DIMEX is configurable for a variety of applications. Because the dimmer is attached to the Crestron® network, it can function as a keypad to trigger remote actions or as a switch for nondimmable loads.

Multiway Control

The HZ-DIMEX supports load control from multiple locations. Up to four HZ-KPEX or HZ-AUX devices[1] can be connected to a traveler wire in a traditional three- or four-way circuit to dim the load attached to the HZ-DIMEX. The HZ-KPEX provides backlit, engravable button caps for multiway control, while the HZ-AUX provides a single large rocker button.

Multigang Expansion

Up to four devices may be installed side-by-side in a multigang electrical box with a compatible HZ-FP-G series faceplate.[1] All buttons in a multigang arrangement align to form one continuous control surface.

NOTE: Derating is required for multigang installations. Refer to the HZ-DIMEX Quick Start at crestron.com/manuals (Doc. 8287) for derating information.

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.[2]

The HZ-DIMEX communicates with a control system via a CEN-GWEXER[1] or newer infiNET EX Wireless Gateway. Up to 100 infiNET EX devices may coexist on a wireless network.

Field-Replaceable Button Caps

The preinstalled rocker button cap on the HZ-DIMEX is field replaceable, allowing for engravable multi-button configurations.

Multicolor Backlit Button Engraving

Horizon button caps are laser engravable to identify each button's function. RGB LED backlights illuminate the engraved labels and can be adjusted for custom color backlighting. A built-in ambient light sensor enables auto-dimming of the backlight brightness according to day and night mode presets.

Each button's backlight provides feedback by changing color, intensity, or both. The backlight can also flash to show that an action is being performed.

Customizable Faceplates

Horizon device faceplates (sold separately) are customizable for any décor. Color-matched top and bottom trim pieces may be swapped easily after installation with custom trim fabricated from solid materials such as wood, metal, marble, engineered stone, or Corian® solid surface. Contact a Crestron representative, or refer to Crestron True Blue Support Online Help Answer ID: 1000140, to obtain specifications and CADs for the fabrication of custom trim. Paintable trim is also available separately.

NOTE: The faceplate trim is attached magnetically, which may inhibit use in locations where tampering may occur.

Specifications

Load Requirements

Load Type	Incandescent, Magnetic Low Voltage, Tungsten-Halogen
Load Rating	750 W/VA maximum; No minimum load

Power Requirements

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

Controls

Pushbutton	(1) large rocker button preinstalled; Configurable with combinations of HZ-BTN-RKR1, HZ-BTN-RKR3, HZ-BTN-RKR5, or HZ-BTN-1 in blank or engraved models [1]
Airgap	(1) switch at the bottom of the device; Controls power to the device and connected loads
Setup	(1) Hidden pushbutton; Located behind faceplate's top trim piece; Configures the LED backlight and calibrates the light sensor
Preset Fade Time	1 second (default), software adjustable

LED Indicator and Light Sensor

Feedback	(5) Color-adjustable LEDs; Provides button backlighting
Light Sensor	Photosensor with adjustable sensitivity; Detects the ambient room light level to activate day or night mode

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(s); Subject to site-specific conditions and individual device capabilities [2]
Gateway	Requires a CEN-GWEXER or newer infiNET EX gateway [1]

Connections

Load	(1) 14-12 AWG, screw terminal, red, load output
Line	(1) 14-12 AWG, screw terminal, brass, line power input
Neutral	(1) 14-12 AWG, screw terminal, silver, neutral
Remote	(1) 14-12 AWG, screw terminal, blue, remote
Ground	(1) 14-12 AWG Class 1 flying lead, green, ground (wire nut included)

Environmental

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

Enclosure

Mounting	Mounts in a 1-gang U.S. electrical box or plaster ring (not included); 3.5 in. (26 mm) electrical box depth recommended; Gangable up to four units
Faceplate	Requires an HZ-FP-G Horizon faceplate with mounting bracket (sold separately)

Dimensions

Height	4.38 in. (112 mm)
Width	1.80 in. (46 mm)
Depth	1.75 in. (45 mm) overall, extends 0.41 in. (11 mm) from wall surface when installed

Weight

6.7 oz (190 g)

Compliance

FCC, UL, IC

Models

HZ-DIMEX-A

HZ-DIMEX-B

HZ-DIMEX-W

Available Accessories

HZ-AUX-A
Horizon In-Wall Multiway Remote, Almond

HZ-AUX-B
Horizon In-Wall Multiway Remote, Black

HZ-AUX-W
Horizon In-Wall Multiway Remote, White

HZ-KPEX-A
Horizon In-Wall Keypad with infiNET EX® Wireless Communication, 120 VAC, Almond

HZ-KPEX-B
Horizon In-Wall Keypad with infiNET EX® Wireless Communication, 120 VAC, Black

HZ-KPEX-W
Horizon In-Wall Keypad with infiNET EX® Wireless Communication, 120 VAC, White

HZ-FP-G1-A
Faceplate for Horizon™ In-Wall Devices, 1-Gang, Almond

HZ-FP-G1-B
Faceplate for Horizon™ In-Wall Devices, 1-Gang, Black

HZ-FP-G1-W
Faceplate for Horizon™ In-Wall Devices, 1-Gang, White

HZ-FP-G2-A
Faceplate for Horizon™ In-Wall Devices, 2-Gang, Almond

HZ-FP-G2-B
Faceplate for Horizon™ In-Wall Devices, 2-Gang, Black

HZ-FP-G2-W
Faceplate for Horizon™ In-Wall Devices, 2-Gang, White

HZ-FP-G3-A
Faceplate for Horizon™ In-Wall Devices, 3-Gang, Almond

HZ-FP-G3-B
Faceplate for Horizon™ In-Wall Devices, 3-Gang, Black

HZ-FP-G3-W
Faceplate for Horizon™ In-Wall Devices, 3-Gang, White

HZ-FP-G4-A
Faceplate for Horizon™ In-Wall Devices, 4-Gang, Almond

HZ-FP-G4-B
Faceplate for Horizon™ In-Wall Devices, 4-Gang, Black

HZ-FP-G4-W
Faceplate for Horizon™ In-Wall Devices, 4-Gang, White

HZ-BTN-1-A-T-BLANK
Horizon Backlit Engravable Pushbutton, Size 1, Almond Textured, Engraving Not Included

HZ-BTN-1-B-T-BLANK
Horizon Backlit Engravable Pushbutton, Size 1, Black Textured, Engraving Not Included

HZ-BTN-1-W-T-BLANK
Horizon Backlit Engravable Pushbutton, Size 1, White Textured, Engraving Not Included

HZ-BTN-RKR1-A-T-BLANK
Horizon Backlit Engravable Rocker Button, Size 1, Almond Textured, Engraving Not Included

HZ-BTN-RKR1-B-T-BLANK
Horizon Backlit Engravable Rocker Button, Size 1, Black Textured, Engraving Not Included

HZ-BTN-RKR1-W-T-BLANK
Horizon Backlit Engravable Rocker Button, Size 1, White Textured, Engraving Not Included

HZ-BTN-RKR3-B-T-BLANK
Horizon Backlit Engravable Rocker Button, Size 3, Black Textured, Engraving Not Included

HZ-BTN-RKR3-W-T-BLANK
Horizon Backlit Engravable Rocker Button, Size 3, White Textured, Engraving Not Included

HZ-BTN-RKR5-A-T-BLANK
Horizon Backlit Engravable Rocker Button, Size 5, Almond Textured, Engraving Not Included

HZ-BTN-RKR5-B-T-BLANK
Horizon Backlit Engravable Rocker Button, Size 5, Black Textured, Engraving Not Included

HZ-BTN-RKR5-W-T-BLANK
Horizon Backlit Engravable Rocker Button, Size 5, White Textured, Engraving Not Included

HZA-KEY1-A
Horizon Keystone, 1 Position, Almond

HZA-KEY1-B
Horizon Keystone, 1 Position, Black

HZA-KEY1-W
Horizon Keystone, 1 Position, White

HZA-KEY2-A
Horizon Keystone, 2 Position, Almond

HZA-KEY2-B
Horizon Keystone, 2 Position, Black

HZA-KEY2-W
Horizon Keystone, 2 Position, White

HZA-KEY4-A
Horizon Keystone, 4 Position, Almond

HZA-KEY4-B
Horizon Keystone, 4 Position, Black

HZA-KEY4-W
Horizon Keystone, 4 Position, White

HZA-PWR-15A-A
Duplex Receptacle, 15 A, Almond

HZA-PWR-15A-W
Duplex Receptacle, 15 A, White

HZA-PWR-GFCI-15A-A
Duplex Receptacle, GFCI, 15 A, Almond

HZA-PWR-GFCI-15A-W
Duplex Receptacle, GFCI, 15 A, White

HZA-PWR-USB-15A-A
Duplex Receptacle, Dual Type-A USB Ports, 15 A, Almond

HZA-PWR-USB-15A-W
Duplex Receptacle, Dual Type-A USB Ports, 15 A, White

HZ-TRIM-G1-PAINT-DARK
Paintable Trim for HZ-FP-G1 Faceplate, Dark

HZ-TRIM-G1-PAINT-LIGHT
Paintable Trim for HZ-FP-G1 Faceplate, Light

HZ-TRIM-G2-PAINT-DARK
Paintable Trim for HZ-FP-G2 Faceplate, Dark

HZ-TRIM-G2-PAINT-LIGHT
Paintable Trim for HZ-FP-G2 Faceplate, Light

HZ-TRIM-G3-PAINT-DARK
Paintable Trim for HZ-FP-G3 Faceplate, Dark

HZ-TRIM-G3-PAINT-LIGHT
Paintable Trim for HZ-FP-G3 Faceplate, Light

HZ-TRIM-G4-PAINT-DARK
Paintable Trim for HZ-FP-G4 Faceplate, Dark

HZ-TRIM-G4-PAINT-LIGHT
Paintable Trim for HZ-FP-G4 Faceplate, Light

Notes:

1. Item(s) sold separately.
2. 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, model CLW-EXPEX, is also available.

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 by calling 855-263-8754.

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

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

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

0.37 in.
(10 mm)

1.80 in.
(26 mm)

1.75 in.
(45 mm)

4.38 in.
(112 mm)

2.84 in.
(73 mm)

CRESTRON

← ON

CRESTRON