SECTION 27 41 16

INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

GUIDE SPECIFICATION

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Specifier: Please see PART 4 for a listing of products specified in this Guide Specification.

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# GENERAL

NOT USED in this Guide Specification. Specifier shall Specify PART 1 administrative and procedural requirements as needed.

# PRODUCTS

## In-Wall Universal Phase Dimmer with Wireless Communication, 120 VAC

Specifier Note:

*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.*

### Basis of Design

#### Crestron HZ2-DIMUEX

### Device Definition

#### In-wall universal phase dimmer with the following capabilities:

##### Forward and reverse phase dimming

##### Over current protection

##### Auto load detection to select the appropriate dimming method for attached load

##### LED, incandescent, magnetic low voltage, and electronic low voltage support

##### Support for dimming curve adjustment to be linear, logarithmic, or custom

##### Support for defined minimum and maximum light levels

##### Support for proprietary wireless communications system by same manufacturer

##### Support for proprietary home / MDU automation operating system by same manufacturer

##### Fully programmable when connected to control system by same manufacturer

##### Integrated keypad functionality to trigger commands in control system by same manufacturer

##### Local button functionality for load control without programming

##### Support for custom button layout and engraving, field replaceable as needed

###### Blank button assemblies available for engraving by third party

##### Custom color RGB LED button backlight support

###### Backlight intensity to adjust automatically according to amount of ambient light in room via ambient light sensor

##### Installation in standard US electrical wall box

###### Side-by-side installation with up to four (4) devices from same product line in US multi gang electrical box

##### Multiway lighting control support with devices from same manufacturer

##### Availability in the following colors: white, almond, black

### Device Architecture

#### 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 multi gang applications

##### Faceplate

###### Requires faceplate with mounting bracket by same manufacturer

###### Metal mounting bracket to provide precise alignment during device installation and faceplate assembly

###### Multi gang installations require a 2-, 3-, or 4-gang faceplate with mounting bracket by same manufacturer

##### 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)

##### Environmental Operating Conditions

###### Temperature: 32° to 86° F (0° to 30° C)

###### Humidity: 10% to 90% RH (noncondensing)

### Functions

#### 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 by same manufacturer; fade time is adjustable when controlled by a control system by same manufacturer

#### Wireless

##### RF Transceiver

###### Proprietary 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

###### Communication with control system requires gateway device, all by same manufacturer

##### Support for up to 100 devices by same manufacturer on proprietary wireless network

### Connectors

#### 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 sires 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

#### Remote

##### (1) Screw clamp terminal, consists of (2) wire inserts and (1) blue screw head

##### Remote input from auxiliary devices by same manufacturer, 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, wire nut included

### Controls and Indicators

#### Airgap: (1) Switch at the bottom of the device; controls power to the device and connected loads

##### (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 button configurations as specified by manufacturer

#### 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 Feedback

##### (5) RGB LED backlights

##### Supports one local color theme for all LEDs

##### Supports one alternate color theme for each backlit position

##### White LED backlight color temperature range: 2000 K to 8000 K

#### Light Sensor

##### (1) Photosensor with adjustable sensitivity

##### Detects the ambient room light level to activate day or night mode and auto dimming of backlight

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

### Power

#### 120 VAC 50/60 Hz, requires neutral wire connection

### Compliance

#### FCC, UL, IC

#### Regulatory Model: M201849004

## In-Wall Forward Phase Dimmer with Wireless Communication, 120 VAC

Specifier Note:

*The HZ2-DIMEX is a Horizon® 2 in-wall forward phase dimmer that provides infiNET EX® wireless network control of 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.*

### Basis of Design

#### Crestron HZ2-DIMEX

### Device Definition

#### In-wall forward phase dimmer with the following capabilities:

##### Incandescent, magnetic low voltage, and tungsten-halogen load support

##### Support for proprietary wireless communications system by same manufacturer

##### Support for proprietary home / MDU automation operating system by same manufacturer

##### Fully programmable when connected to control system by same manufacturer

##### Integrated keypad functionality to trigger commands in control system by same manufacturer

##### Local button functionality for load control without programming

##### Support for custom button layout and engraving, field replaceable as needed

###### Blank button assemblies available for engraving by third party

##### Custom color RGB LED button backlight support

###### Backlight intensity to adjust automatically according to amount of ambient light in room via ambient light sensor

##### Installation in standard US electrical wall box

###### Side-by-side installation with up to four (4) devices from same product line in US multi gang electrical box

##### Multiway lighting control support with devices from same manufacturer

##### Availability in the following colors: white, almond, black

### Device Architecture

#### 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 multi gang applications

##### Faceplate

###### Requires faceplate with mounting bracket by same manufacturer

###### Metal mounting bracket to provide precise alignment during device installation and faceplate assembly

###### Multi gang installations require a 2-, 3-, or 4-gang faceplate with mounting bracket by same manufacturer

##### 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)

##### Environmental Operating Conditions

###### Temperature: 32° to 86° F (0° to 30° C)

###### Humidity: 10% to 90% RH (noncondensing)

### Functions

#### Load Control

##### Load Type: Incandescent, Magnetic Low Voltage, Tungsten-Halogen

##### Channels: 1

##### Load Rating: 750 W/VA maximum; no minimum load

##### Preset Fade Time: 1 second (default) when operated without a control system by same manufacturer; fade time is adjustable when controlled by a control system by same manufacturer

#### Wireless

##### RF Transceiver

###### Proprietary 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

###### Communication with control system requires gateway device, all by same manufacturer

##### Support for up to 100 devices by same manufacturer on proprietary wireless network

### Connectors

#### 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 sires 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

#### Remote

##### (1) Screw clamp terminal, consists of (2) wire inserts and (1) blue screw head

##### Remote input from auxiliary devices by same manufacturer, 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, wire nut included

### Controls and Indicators

#### 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 button configurations as specified by manufacturer

#### 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 Feedback

##### (5) RGB LED backlights

##### Supports one local color theme for all LEDs

##### Supports one alternate color theme for each backlit position

##### White LED backlight color temperature range: 2000 K to 8000 K

#### Light Sensor

##### (1) Photosensor with adjustable sensitivity

##### Detects the ambient room light level to activate day or night mode and auto dimming of backlight

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

### Power

#### 120 VAC 50/60 Hz, requires neutral wire connection

### Compliance

#### FCC, UL, IC

#### Regulatory Model: M201849003

## In-Wall 0-10 V Dimmer with Wireless Communication, 120 VAC

Specifier Note:

*The HZ2-DIMLVEX is a Horizon® 2 in-wall 0-10 V dimmer that provides infiNET EX® wireless network control of ballasts and drivers. Its design matches the entire line of Horizon dimmers, switches, and keypads, making it a great addition to new or retrofit installations.*

### Basis of Design

#### Crestron HZ2-DIMLVEX

### Device Definition

#### 0-10 V dimmer with the following capabilities:

##### Integrated switch to cut load power

##### 0-10 VDC ballast, LED load support

##### Support for proprietary wireless communications system by same manufacturer

##### Support for proprietary home / MDU automation operating system by same manufacturer

##### Fully programmable when connected to control system by same manufacturer

##### Integrated keypad functionality to trigger commands in control system by same manufacturer

##### Local button functionality for load control without programming

##### Support for custom button layout and engraving, field replaceable as needed

###### Blank button assemblies available for engraving by third party

##### Custom color RGB LED button backlight support

###### Backlight intensity to adjust automatically according to amount of ambient light in room via ambient light sensor

##### Installation in standard US electrical wall box

###### Side-by-side installation with up to four (4) devices from same product line in US multi gang electrical box

##### Availability in the following colors: white, almond, black

### Device Architecture

#### 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 multi gang applications

##### Faceplate

###### Requires faceplate with mounting bracket by same manufacturer

###### Metal mounting bracket to provide precise alignment during device installation and faceplate assembly

###### Multi gang installations require a 2-, 3-, or 4-gang faceplate with mounting bracket by same manufacturer

##### Dimensions

###### Height: 4.13 in. (105 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: 7.2 oz. (204 g)

##### Environmental Operating Conditions

###### Temperature: 32° to 86° F (0° to 30° C)

###### Humidity: 10% to 90% RH (noncondensing)

### Functions

#### Load Control

##### Load Type: 10 VDC Ballasts, LED Drivers

##### Load Rating: 10 A maximum; no minimum load

##### Dim Control Output: 0-10 VDC 60 mA sink / source

##### Preset Fade Time: 1 second (default) when operated without a control system by same manufacturer; fade time is adjustable when controlled by a control system by same manufacturer

#### Wireless

##### RF Transceiver

###### Proprietary 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

###### Communication with control system requires gateway device, all by same manufacturer

##### Support for up to 100 devices by same manufacturer on proprietary wireless network

### Connectors

#### HOT

##### (1) 12 AWG flying lead

##### Black, line power input, wire nut included

#### NEU

##### (1) 12 AWG flying lead

##### White, neutral, wire nut included

#### LOAD

##### (1) 12 AWG flying lead

##### Red, switched power output to load, wire nut included

#### GND

##### (1) 12 AWG flying lead

##### Green with yellow stripe, ground, wire nut included

#### DIM +

##### (1) 12 AWG flying lead

##### Purple, 0-10 V dimming control output, positive, wire nut included

#### DIM -

##### (1) 12 AWG flying lead

##### Gray, 0-10 V dimming control output, negative, wire nut included

### Controls and Indicators

#### 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 button configurations as specified by manufacturer

#### 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 Feedback

##### (5) RGB LED backlights

##### Supports one local color theme for all LEDs

##### Supports one alternate color theme for each backlit position

##### White LED backlight color temperature range: 2000 K to 8000 K

#### Light Sensor

##### (1) Photosensor with adjustable sensitivity

##### Detects the ambient room light level to activate day or night mode and auto dimming of backlight

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

### Power

#### 120 VAC 50/60 Hz, requires neutral wire connection

### Compliance

#### FCC, UL, IC

#### Regulatory Model: M201849005

## In-Wall Switch with Wireless Communication, 120 VAC

Specifier Note:

*The HZ2-SWEX is a Horizon® 2 in-wall switch that provides infiNET EX® wireless network control of incandescent, magnetic low voltage, and tungsten-halogen loads as well as electronic ballasts and ½ HP motors. Its design matches the entire line of Horizon dimmers, switches, and keypads, making it a great addition to new or retrofit installations.*

### Basis of Design

#### Crestron HZ2-SWEX

### Device Definition

#### In-wall Switch with the following capabilities:

##### Support for Incandescent, Magnetic Low Voltage, and Tungsten-Halogen loads

##### Support for Electronic Ballasts and 1/2 HP motors

##### Support for proprietary wireless communications system by same manufacturer

##### Support for proprietary home / MDU automation operating system by same manufacturer

##### Fully programmable when connected to control system by same manufacturer

##### Integrated keypad functionality to trigger commands in control system by same manufacturer

##### Local button functionality for load control without programming

##### Support for custom button layout and engraving, field replaceable as needed

###### Blank button assemblies available for engraving by third party

##### Custom color RGB LED button backlight support

###### Backlight intensity to adjust automatically according to amount of ambient light in room via ambient light sensor

##### Installation in standard US electrical wall box

###### Side-by-side installation with up to four (4) devices from same product line in US multi gang electrical box

##### Multiway lighting control support with devices from same manufacturer

##### Availability in the following colors: white, almond, black

### Device Architecture

#### 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 multi gang applications

##### Faceplate

###### Requires faceplate with mounting bracket by same manufacturer

###### Metal mounting bracket to provide precise alignment during device installation and faceplate assembly

###### Multi gang installations require a 2-, 3-, or 4-gang faceplate with mounting bracket by same manufacturer

##### Dimensions

###### Height: 4.13 in. (105 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)

##### Environmental Operating Conditions

###### Temperature: 32° to 86° F (0° to 30° C)

###### Humidity: 10% to 90% RH (noncondensing)

### Functions

#### Load Control

##### Load Type: Incandescent, Magnetic Low Voltage, Tungsten-Halogen, Electronic Ballasts, 1/2 HP motors

##### Load Rating: 10 A maximum; no minimum load

#### Wireless

##### RF Transceiver

###### Proprietary 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

###### Communication with control system requires gateway device, all by same manufacturer

##### Support for up to 100 devices by same manufacturer on proprietary wireless network

### Connectors

#### 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

#### 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

#### Remote

##### (1) Screw clamp terminal, consists of (2) wire inserts and (1) blue screw head

##### Remote input from auxiliary devices by same manufacturer, 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, wire nut included

##### 

### Controls and Indicators

#### 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 button configurations as specified by manufacturer

#### 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 Feedback

##### (5) RGB LED backlights

##### Supports one local color theme for all LEDs

##### Supports one alternate color theme for each backlit position

##### White LED backlight color temperature range: 2000 K to 8000 K

#### Light Sensor

##### (1) Photosensor with adjustable sensitivity

##### Detects the ambient room light level to activate day or night mode and auto dimming of backlight

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

### Power

#### 120 VAC 50/60 Hz, requires neutral wire connection

### Compliance

#### FCC, UL, IC

#### Regulatory Model: M201849002

## In-Wall Keypad with Wireless Communication, 120 VAC

Specifier Note:

*The HZ2-KPEX is a Horizon® 2 keypad that provides infiNET EX® wireless network control of lighting, shading, audio, and other amenities throughout a home. Its design matches the entire line of Horizon dimmers, switches, and keypads, making it a great addition to new or retrofit installations.*

### Basis of Design

#### Crestron HZ2-KPEX

### Device Definition

#### In-wall Keypad with the following capabilities:

##### Power sourcing through either 120 VAC line voltage or 60 VDC low voltage

##### Support for proprietary wireless communications system by same manufacturer

##### Support for proprietary home / MDU automation operating system by same manufacturer

##### Fully programmable when connected to control system by same manufacturer

##### Integrated keypad functionality to trigger commands in control system by same manufacturer

##### Local button functionality for load control without programming

##### Support for custom button layout and engraving, field replaceable as needed

###### Blank button assemblies available for engraving by third party

##### Custom color RGB LED button backlight support

###### Backlight intensity to adjust automatically according to amount of ambient light in room via ambient light sensor

##### Installation in standard US electrical wall box

###### Side-by-side installation with up to four (4) devices from same product line in US multi gang electrical box

##### Multiway lighting control support with devices from same manufacturer

###### Requires traveler wire connection to dimmer or switch by same manufacturer connected to load

##### Availability in the following colors: white, almond, black

### Device Architecture

#### 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 multi gang applications

##### Faceplate

###### Requires faceplate with mounting bracket by same manufacturer

###### Metal mounting bracket to provide precise alignment during device installation and faceplate assembly

###### Multi gang installations require a 2-, 3-, or 4-gang faceplate with mounting bracket by same manufacturer

##### 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: 6.6 oz. (187 g)

##### Environmental Operating Conditions

###### Temperature: 32° to 86° F (0° to 30° C)

###### Humidity: 10% to 90% RH (noncondensing)

### Functions

#### Wireless

##### RF Transceiver

###### Proprietary 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

###### Communication with control system requires gateway device, all by same manufacturer

##### Support for up to 100 devices by same manufacturer on proprietary wireless network

### Connectors

#### 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

#### Remote

##### (1) Screw clamp terminal, consists of (2) wire inserts and (1) blue screw head

##### Remote input from auxiliary devices by same manufacturer, 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, wire nut included

##### 

### Controls and Indicators

#### Airgap

##### (1) Switch at the bottom of the device

##### Controls power to the device

#### 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 button configurations as specified by manufacturer

#### 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 Feedback

##### (5) RGB LED backlights

##### Supports one local color theme for all LEDs

##### Supports one alternate color theme for each backlit position

##### White LED backlight color temperature range: 2000 K to 8000 K

#### Light Sensor

##### (1) Photosensor with adjustable sensitivity

##### Detects the ambient room light level to activate day or night mode and auto dimming of backlight

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

### Power

#### Line Power

##### 120 VAC 50/60 Hz, requires neutral wire connection

#### DC Power

##### 60 VDC, 30 mA (Requires third party power supply, sold separately)

### Compliance

#### FCC, UL, IC

#### Regulatory Model: M201849001

## In-Wall Multiway Remote

Specifier Note:

*The HZ2-AUX is a Horizon® 2 in-wall multiway remote that controls Horizon 2 dimmers and switches. Its design matches the entire line of Horizon 2 dimmers, switches, and keypads, making it a great addition to new or retrofit installations.*

### Basis of Design

#### Crestron HZ2-AUX

### Device Definition

#### In-wall multiway remote with the following capabilities:

##### Support for custom button engraving, field replaceable as needed

###### Blank button assemblies available for engraving by third party

##### Installation in standard US electrical wall box

###### Side-by-side installation with up to four (4) devices from same product line in US multi gang electrical box

##### Multiway lighting control support with devices from same manufacturer

###### Requires traveler wire connection to dimmer or switch by same manufacturer connected to load

##### Availability in the following colors: white, almond, black

### Device Architecture

#### 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 multi gang applications

##### Faceplate

###### Requires faceplate with mounting bracket by same manufacturer

###### Metal mounting bracket to provide precise alignment during device installation and faceplate assembly

###### Multi gang installations require a 2-, 3-, or 4-gang faceplate with mounting bracket by same manufacturer

##### Dimensions

###### Height: 4.13 in. (105 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. (187 g)

##### Environmental Operating Conditions

###### Temperature: 32° to 86° F (0° to 30° C)

###### Humidity: 10% to 90% RH (noncondensing)

### Functions

#### Multiway lighting control via traveler wire

##### Maximum wire length of 250 ft. (77 m) between specified device and device connected to load

### Connectors

#### 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

#### Remote

##### (1) Screw clamp terminal, consists of (2) wire inserts and (1) blue screw head

##### Remote input to auxiliary devices by same manufacturer, 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, wire nut included

##### 

### Controls and Indicators

#### Pushbutton

##### (2) Pushbuttons located under the button assembly

##### Pushbuttons are actuated by the button assembly that is installed

#### Button Assembly

##### (1) Button assembly included

##### Compatible with button configurations as specified by manufacturer

#### LED Feedback: None

#### Light Sensor: None

### Power

#### Line Power

##### 120 VAC 50/60 Hz, requires neutral wire connection

### Compliance

#### FCC, UL, IC

#### Regulatory Model: M201849006

## In-Wall Keypad with Proprietary Wired Communication

Specifier Note:

*The HZ2-KPCN is a Horizon® 2 keypad that provides Cresnet® network control of lighting, shading, audio, and other amenities throughout a home. Its design matches the entire line of Horizon dimmers, switches, and keypads, making it a great addition to new or retrofit installations.*

### Basis of Design

#### Crestron HZ2-KPCN

### Device Definition

#### In-wall Keypad with the following capabilities:

##### Communication and power sourcing from 4-pin proprietary cable system by same manufacturer

###### Device and cable system support daisy chaining configuration

##### Digital / analog control ports

##### Support for proprietary home / MDU automation operating system by same manufacturer

##### Fully programmable when connected to control system by same manufacturer

##### Integrated keypad functionality to trigger commands in control system by same manufacturer

##### Support for custom button layout and engraving, field replaceable as needed

###### Blank button assemblies available for engraving by third party

##### Custom color RGB LED button backlight support

###### Backlight intensity to adjust automatically according to amount of ambient light in room via ambient light sensor

##### Installation in standard US electrical wall box or 1-gang EU style electrical box

###### Side-by-side installation with up to four (4) devices from same product line in US multi gang electrical box

##### Availability in the following colors: white, almond, black

### Device Architecture

#### Construction

##### Mounting

###### Mounts in a 1- to 4-gang U.S. electrical box or 1-gang EU style electrical box (not included)

###### Metal mounting ring included

###### 3.5 in. (26 mm) electrical box depth recommended

###### Derating required in multi gang applications

##### Faceplate

###### Requires faceplate with mounting bracket by same manufacturer

###### Metal mounting bracket to provide precise alignment during device installation and faceplate assembly

###### Multi gang installations require a 2-, 3-, or 4-gang faceplate with mounting bracket by same manufacturer

##### Dimensions

###### Height: 4.73 in. (120 mm)

###### Width: 3.07 in. (78 mm) with 1-gang faceplate

###### Depth: 0.64 in. (17 mm) overall, extends 0.44 in. (12 mm) from wall surface when installed

Specifier Note: Dimensions shown are without the detachable connectors.

##### Weight: 4.2 oz. (119 g)

##### Environmental Operating Conditions

###### Temperature: 32° to 86° F (0° to 30° C)

###### Humidity: 10% to 90% RH (noncondensing)

### Functions

#### Communications

##### Proprietary wired communications / power system by same manufacturer, secondary mode

### Connectors

#### INPUT (1 2 G)

##### (1) 3-pin 3.5 mm detachable terminal block

###### (2) digital/analog input ports, (1) ground

###### Digital Input: Rated for 0-24 VDC, input impedance 200 kΩ, logic threshold 1.24 VDC

###### Analog Input: Rated for 0-10 VDC, protected to 24 VDC maximum, input impedance 200 kΩ

###### Programmable 3 V, 2 kΩ pull-up resistor per input

#### NET (24 Y Z G)

##### (2) 4-pin 3.5 mm detachable terminal blocks, paralleled

##### Secondary proprietary communications / power port with hardwire parallel pass-through

### Controls and Indicators

#### 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 button configurations as specified by manufacturer

#### 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 Feedback

##### (5) RGB LED backlights

##### Supports one local color theme for all LEDs

##### Supports one alternate color theme for each backlit position

##### White LED backlight color temperature range: 2000 K to 8000 K

#### Light Sensor

##### (1) Photosensor with adjustable sensitivity

##### Detects the ambient room light level to activate day or night mode and auto dimming of backlight

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

### Power

#### Power sourced through proprietary wired communications / power system by same manufacturer

#### Power usage: 2 W (83 mA @ 24 VDC)

### Compliance

#### IC, FCC Part 15 Class B digital device

#### Regulatory Model: M201849007

# EXECUTION

NOT USED in this Guide Specification. Specifier shall Specify PART 3 On-Site work as needed.

# APPENDICES

## SPECIFIED PRODUCTS

Specifier Note: This Article includes Crestron products specified in this Guide Specification document. This Article is for reference only and should not be required in actual project manual unless included in an overall system equipment list.

### Crestron HZ2-DIMUEX

### Crestron HZ2-DIMEX

### Crestron HZ2-DIMLVEX

### Crestron HZ2-SWEX

### Crestron HZ2-KPEX

### Crestron HZ2-AUX

### Crestron HZ2-KPCN

## Input / Output Connection Diagrams

### HZ2-DIMUEX

A diagram of a light switch

Description automatically generated

### HZ2-DIMEX

A diagram of a light switch

Description automatically generated

### HZ2-DIMLVEX

A diagram of a light switch

Description automatically generated

### HZ2-SWEX

A diagram of a light switch

Description automatically generated

### HZ2-KPEX

A diagram of a device

Description automatically generated

### HZ2-AUX

A diagram of a machine

Description automatically generated

### HZ2-KPCN

A diagram of a device

Description automatically generated