V-Series User Panels - Pushbutton

For Eclipse® and Eclipse® HX Matrix Systems

Linking People Together

V-Series Pushbutton 1RU Panel

V-Series Pushbutton Desktop

V-Series Pushbutton 2RU Panel

The V-Series Pushbutton Panels are user control keypanels that operate in conjunction with the Eclipse and Eclipse HX Digital Matrix Systems.

Key Features and Benefits

- Individual key menus help ease of use and assignment
- Vertical-font display option
- Yellow OLEDs for better contrast and visibility
- Individual up/down audio level controls for personal mixes
- "Listen Again" function to replay calls
- Fast key assign from pre-defined scroll lists or using numeric pad
- Optional repositioning of Reply key
- Optional additional Reply key for busy positions
- International 10-character alpha-numeric fonts: Cyrillic, Hangul, Hebrew, Kanji, Katakana and Arabic
- Digital Signal Processing (DSP) for audio routing, EQ and Dynamics, IFB routing and local loudspeaker dimming
- Built-in Interfaces: Matrix (direct connect), Matrix (Ethernet/IP), GPIO, Aux Audio, 2nd Headset
- Optional AES-3 card for digital CAT5 or Co-Ax connections
- Multi-channel Matrix Connections: Direct connect (1 main + 2 aux), AES-3 (2 channels), IP (3 channels)
- Optional AES-3 card for connection to either EMADI-64 or AES-6 interface card

Description

The V-Series Pushbutton key-panels are user control key-panels that operate in conjunction with the Eclipse and Eclipse HX Digital Matrix Systems. Pushbutton key-panels feature one a display window per key. For each key, a red tally light indicates Talk only, green indicates Listen only and amber is for both Talk and Listen. A special mode provides dual Talk/Listen with a latchable Listen and momentary Talk on one button.

Display

All V-Series key-panels have international alpha-numerical 10-character yellow OLED displays, providing high-contrast for dim environments, as well as greater visibility in bright sunlight. The yellow OLED's provide extended lifetime and reduce the overall cost of ownership for each panel. All Eclipse HX-compatible V-Series key-panels include a vertical font option for vertical mount applications.

Functionality

There are four basic types of Pushbutton key-panels: 1RU (12 key), 2RU (24 key), Desktop (12 key) and Extension (12 key). Each key has associated up/down audio level control buttons. A menu button gives the user access (if allowed) to make changes to the panel functions, system assignment and set ups. A shift key gives access to up to 8 additional pages. Panels include rear audio connections for external audio with options, hot mix out and GPIO's for footswitches and push-to-talk keying.

Advance Digital Signal Processing (DSP) allows for centralized changes to audio routing and effects. The panels' "Listen Again" feature allows recent incoming audio to be replayed.

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Order Codes

Part Number and Description

V12PDX4Y-IP: 1RU Pushbutton Display Panel 4 pin XLR Headset Connector

V12PDX5Y-IP: 1RU Pushbutton Display Panel 5 pin XLR Headset Connector

V24PDX4Y-IP: 2RU Pushbutton Display Panel 4 pin XLR Headset Connector

V24PDX5Y-IP: 2RU Pushbutton Display Panel 5 pin XLR Headset Connector

V12PDDX4Y-IP: Desktop Pushbutton Display Panel (12 Keys) 4 pin XLR Headset Connector

V12PDDX5Y-IP: Desktop Pushbutton Display Panel (12 Keys) 5 pin XLR Headset Connector

V12PDEY: 1RU Pushbutton Display Extension Panel

V12PDX4Y-AES-IP: RU Pushbutton Display Panel for Co-Ax/AES3 4 pin XLR Headset Connector

V12PDX5Y-AES-IP: 1RU Pushbutton Display Panel for Co-Ax/AES3 5 pin XLR Headset Connector

V24PDX4Y-AES-IP: 2RU Pushbutton Display Panel or Co-Ax/AES3 pin XLR headset Connector

V24PDX5Y-AES-IP: 2RU Pushbutton Display Panel for Co-Ax/AES3 5 pin XLR Headset Connector

V12PDDX4Y-AES-IP: Desktop Pushbutton Display Panel (12 Keys) for Co-Ax/AES3 4 pin XLR Headset Connector

V 12PDDX5Y-AES-IP: Desktop Pushbutton Display Panel (12 Keys) for Co-Ax/AES3 5 pin XLR Headset Connector

Note: Some models available with 7-pin male XLR headset connectors.
Please contact Clear-Com Sales for details.

Panel Type

The 1 Rack Unit (1RU) key-panel comes with 12 configurable pushbuttons and 24 up/down level buttons.
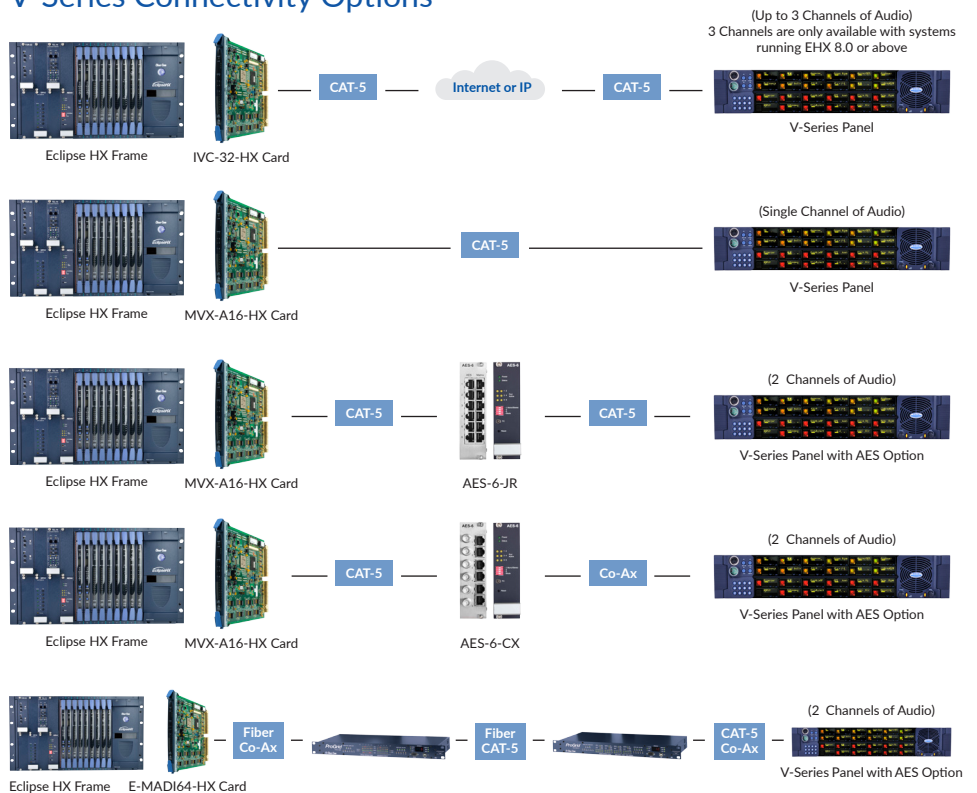
The 2 Rack Unit (2RU) key-panel comes with 24 configurable pushbuttons and 48 up/down level control buttons. The 2RU key panel is offered with an additional dial keypad which allows telephone dialing and quick access to menus.

The Desktop key-panel has the same features as the 1RU and 2RU panels, but has been designed in a smaller configuration to provide commentator split operation with stereo monitoring, cough switching and local IFB control/loudspeaker dimming.

An Extension panel is used to increase the number of Talk/Listen paths for a user. The Extension key-panel comes in a 1RU only; it has 12 pairs of up/down level controls. Up to 8 extension panels can be added to each host key-panel and can be placed up to 16ft (5m) away.

V-Series Connectivity Options

(Up to 3 Channels of Audio)
3 Channels are only available with systems running EHX 8.0 or above

Eclipse HX Frame — IVC-32-HX Card — CAT-5 — Internet or IP — CAT-5 — V-Series Panel

(Single Channel of Audio)

Eclipse HX Frame — MVX-A16-HX Card — CAT-5 — V-Series Panel

(2 Channels of Audio)

Eclipse HX Frame — MVX-A16-HX Card — CAT-5 — AES-6-JR — CAT-5 — V-Series Panel with AES Option

(2 Channels of Audio)

Eclipse HX Frame — MVX-A16-HX Card — CAT-5 — AES-6-CX — Co-Ax — V-Series Panel with AES Option

(2 Channels of Audio)

Eclipse HX Frame — E-MADI64-HX Card — Fiber Co-Ax — Fiber CAT-5 — CAT-5 Co-Ax — V-Series Panel with AES Option

Technical Specifications

Front Panel Controls & Connectors
Talk/Listen Switches: 12 (1RU, Desktop); 24 (2RU)
Answer Back Switch: Configurable (None, 1 or 2)
Volume Controls: 2 (Main and Aux)
Headset Connector: 1 (XLR-4M or XLR-5F)
Panel Mic Connector: 1 (3-pin)

Rear Panel Connectors
GPIO: DB-25F
Matrix: RJ-45 (single-channel)
Matrix (IP): RJ-45 (multi-channel)
Auxiliary Audio: DB-25M
Expansion Panel: RJ-45
DC Power: 4-pin DIN

With AES Option:
AES (75 Ohms Co-Ax): BNC (dual channel)
AES (CAT5): RJ-45 (dual channel)

Headset Audio
Earphone Impedence: From 32 Ohms
Output Power: 75mW into 50 Ohms for <1% distortion

Loudspeaker Audio
Frequency Response: 40Hz-20KHz +/- 3dB

Panel Microphone Input
Type: Electret
Level: 40-70 dBu
Impedence: 1700 Ohms +/- 10%

Headset Microphone Input
Type: Dynamic or Electret
Level: -40 - 0 dBu

Main Power Supply (External)
Voltage: 100/240 VAC +/- 10%
Frequency: 50 - 60 Hz
Power: 50W maximum

Environmental
Operating: +32° – +125° F (0° – +50° C)
Storage: +32° – +150° F (0° – +70° C)
Humidity: Between 20% and 90%, Non-Condensing

Dimensions
1RU:
19 x 1.76 x 6.75 in (WxHxD)
(483 x 44 x 172 mm)

2RU:
19 x 3.5 x 6.75 in (WxHxD)
(483 x 89 x 172 mm)

Desktop:
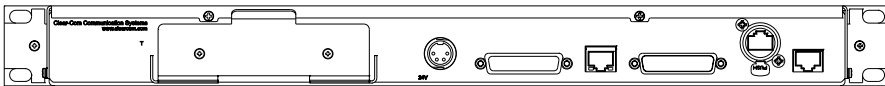10.25 x 5.9 x 6.75 in (WxHxD)
(260 x 150 x 172 mm)

Weight
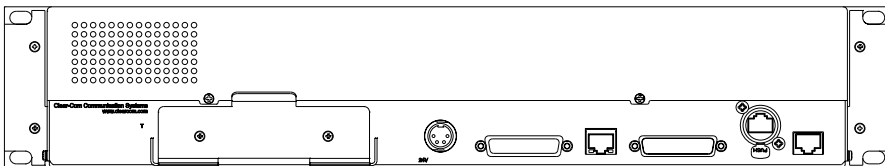**1RU:** 3.5 lbs (1.6 kg)
2RU: 7.5 lbs (4.0 kg)
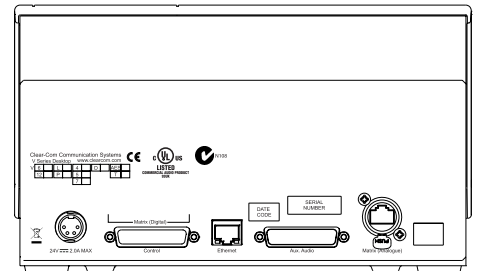**Desktop:** 6.0 lbs (2.75 kg)

Back Panels

1RU V-Series Back Panel

2RU V-Series Back Panel

V-Series Desktop Back Panel

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