



# 4x2 Presentation Switcher with HDBaseT 3.0 70m out

Model Number: RL-PSB42H70U

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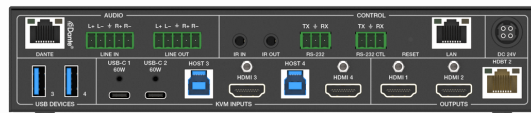
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## 4x2 Presentation Switcher with HDBaseT 3.0 70m out

The RL-PSB42H70U is a versatile 4x2 4K60 Presentation Switcher designed for professional AV installations . It combines high-resolution video switching, audio management, and flexible control options into a single, compact unit . This switcher is an ideal solution for boardrooms, classrooms, and other environments where multiple sources need to be displayed on one or two screens .

At its core, the RL-PSB42H70U supports seamless switching of 4K video at 60Hz with 4:4:4 chroma subsampling, ensuring the highest video quality . It is compliant with the latest standards, including HDMI 2.0b, HDCP 2.3, and HDBaseT 3.0 . The switcher's multiview capabilities allow for the simultaneous display of up to four sources in various layouts, such as Picture-in-Picture (PIP) and Picture-by-Picture (PBP) .

One of the standout features of this device is its extensive connectivity . It includes USB-C and HDMI inputs, as well as Dante audio integration for professional audio networking . The USB-C ports are particularly noteworthy, as they support video, data, LAN, and power delivery, simplifying the connection of modern laptops and other devices .



## Versatile Input and Output

This presentation switcher is equipped with a wide range of inputs and outputs to accommodate various sources and displays . The inputs include two USB-C ports, two HDMI ports, one analog audio input, and a 1x Dante 2-channel input . For outputs, it offers one HDMI port, one mirrored HDMI and HDBaseT output, one analog audio output, and a 1x Dante 2-channel output .

# Advanced USB and Data Capabilities

The RL-PSB42H70U supports USB 3.2 Gen 1 with data transfer speeds up to 5Gbps . The USB-C ports support DisplayPort Alternate Mode for A/V, USB 3.2 data, 1G LAN, and 60W charging, providing a single-cable solution for connecting laptops and other devices . The switcher also features local USB 3.2 switching and can extend USB 2.0 over HDBaseT 3.0 . Furthermore, it supports local USB KVM hotkeys and mouse switching for convenient control of connected computers .

## HDBaseT 3.0 Extension

With HDBaseT 3.0 technology, this switcher can transmit uncompressed 4K60 4:4:4 video signals up to 132ft/40m over a single CAT6A cable . For lower resolutions like 1080P and 4K30, the transmission distance is extended up to 230ft/70m over the same CAT6A cable . The switcher also supports standard PoE (Power over Ethernet) power supply from the transmitter (TX) to the receiver (RX), simplifying installation and reducing cable clutter .



## Comprehensive Audio Control

The RL-PSB42H70U offers robust audio features, including audio embedding and de-embedding capabilities . It has a built-in audio DSP (Digital Signal Processor) that provides control over gain, equalizer, volume, and delay, allowing you to fine-tune the audio to your specific needs . The device also features a 2x2 Dante audio input and output, enabling the routing of audio signals over a standard IP network .

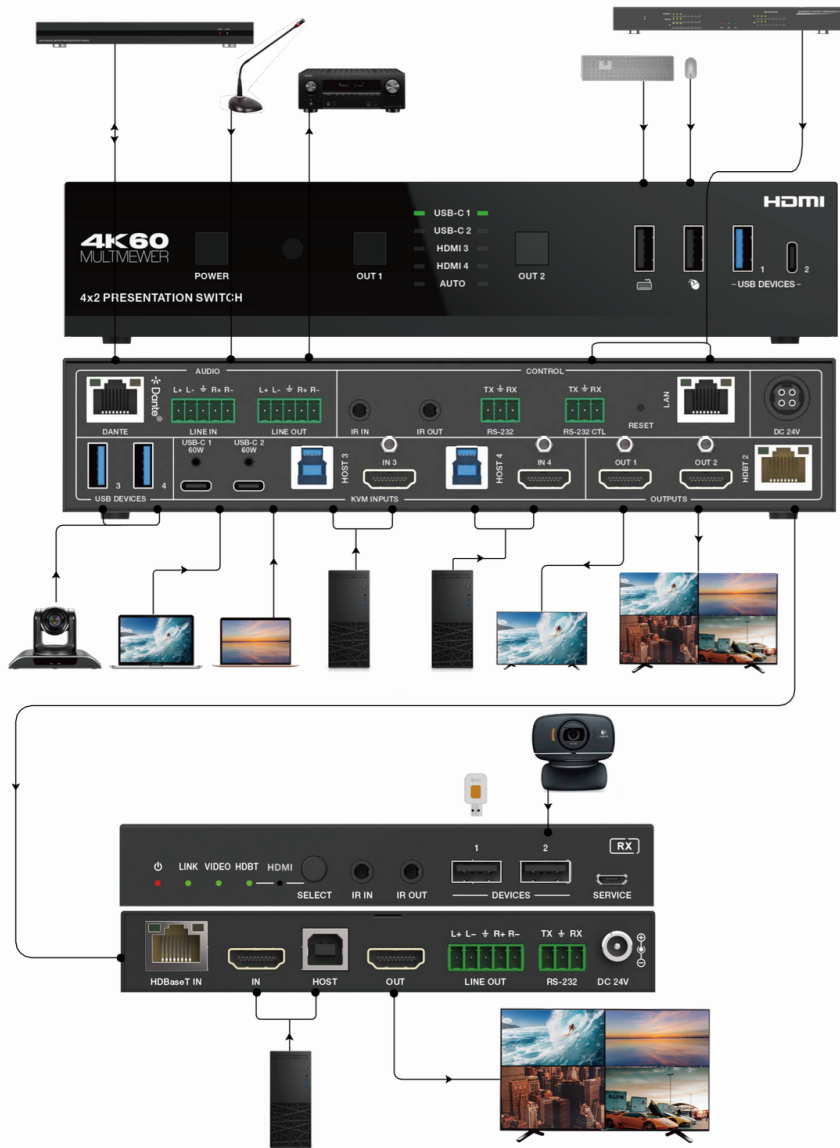


# Futures

- High-Resolution Video: Supports video resolutions up to 4K@60Hz 4:4:4 as specified in HDMI 2.0b .
- Latest Standards: Compliant with HDCP 2.3, DisplayPort 1.4, and HDBaseT 3.0 .
- High-Speed USB: Features USB 3.2 Gen 1 for data transfer speeds up to 5Gbps .
- Seamless Switching: Offers 4x2 seamless switching for a single screen and fast switching for multiview functions .
- Flexible Switching Modes: Includes both manual and automatic switching modes .

# Specification

| Feature                      | Specification                                                                   |
|------------------------------|---------------------------------------------------------------------------------|
| Video Resolution             | Up to 4K@60Hz 4:4:4, as specified in HDMI 2.0b                                  |
| Compliance                   | HDCP 2.3, DP 1.4 and HDBaseT 3.0 compliant                                      |
| USB Speed                    | USB 3.2 Gen 1 up to 5Gbps                                                       |
| Switching                    | 4x2 seamless switching (single screen) and fast switching (multiview) function  |
| Switching Modes              | Manual switching or auto switching mode                                         |
| Multiview Modes              | Auto/Single/PIP/PBP/Triple/Quad/Custom                                          |
| Inputs                       | 2x USB-C, 2x HDMI, 1x Analog audio, 1x Dante 2ch                                |
| Outputs                      | 1x HDMI, 1x HDMI + HDBaseT mirrored, 1x Analog audio, 1x Dante 2ch              |
| USB-C Support                | DisplayPort Alternate mode for A/V, USB 3.2, 1G LAN and 60W charging            |
| USB Extension                | Local USB 3.2 switching and extending USB 2.0 over HDBaseT 3.0                  |
| KVM Control                  | Local USB KVM hotkeys and mouse switching                                       |
| HDBaseT Transmission (4K)    | Uncompressed 4K60 4:4:4 over HDBaseT 3.0 up to 132ft/40m via single CAT6A cable |
| HDBaseT Transmission (1080P) | Uncompressed 1080P&4K30 over HDBaseT 3.0 up to 230ft/70m via single CAT6A cable |
| Audio Features               | Audio embedded and de-embedded, Audio DSP for gain, equalizer, volume and delay |
| Dante Audio                  | Dante 2x2 audio input and output                                                |
| Device Control               | CEC/RS-232 control external devices ON/OFF                                      |
| EDID Management              | Advanced EDID management                                                        |
| PoE                          | Support standard PoE power supply from TX to RX (TX_PSE, RX_PD)                 |
| Control Options              | Flexible control via front panel buttons, IR remote, RS-232, TCP/IP or Web GUI  |



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