4 Input Scaling Smart Switch with CEC and HDBaseT Out

SW-0401-HDBT

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Introduction

Sloting in neatly between our existing SW-0201-4K and the SW-0501-HDBT presentation switchers, the SW-0401-HDBT is a scaling, multi-format 4-to-1 switcher for corporate huddle rooms and meeting spaces featuring VGA + stereo audio, DisplayPort and dual HDMI Inputs to a single Class A HDBaseT and mirrored HDMI Outputs.

All inputs can be be switched automatically or manually, with HDMI Inputs able to be scaled up to 4K/30 UHD from both HDMI and HDBaseT Outputs. Balanced audio breakout allows connection to a local audio system and CEC power triggers can be sent to compatible screens to turn on/off sink devices by auto-detecting source status. Boasting DisplayPort within its 4 input options, as well as balanced audio breakout and scaled Class A HDBaseT and HDMI outputs, the SW-0401-HDBT represents a powerful solution for increasingly common huddle and meeting space applications within corporate and education environments.

Key Features

- 4-input smart presentation switch with dual, scaled outputs
- Mirrored HDMI out with up to 4K@30Hz scaler and balanced audio
- Class A HDBaseT for transmission of 4K video, audio, Ethernet, power and control signals
- Supporting transmissions distances of 4K/30Hz to 70m/230ft and 1080p to 100m/328ft
- CEC controller built in to turn on/off sink device by auto-detecting source status
- Automatically switches between VGA, DisplayPort and two HDMI inputs
  - 1x VGA+3.5mm stereo up to 1920x1200@60Hz, 1x DisplayPort and 2x HDMI inputs up to 3840x2160@30Hz
- Mirrored HDMI and HDBaseT outputs scales output to 4K
- DIP switch provided to adjust automatic or manual switching mode
- Rotary switch provided to adjust between auto-scaler and forced output resolutions
- RS-232, front panel and CC control (+ LED) of switching
- Contact closure points provided to switch sources or turn on/off sink device
- Auto-switching based on power state and last connected source - switches to the latest source when all inputs are connected or any input disconnected
- PoH HDBaseT output powers RX-70-4K or RX-70-4K-ARC receivers at screen or projector location
- Active CEC technology ensures display devices are in correct power state depending if sources are being used

In the Box

1x SW-0401-HDBT Switcher
1x 12V DC 3A Power Supply
1x AC Power Cord with US Plug
1x AC Power Cord with UK Plug
1x AC Power Cord with EU Plug

2x 3-pin Male Phoenix Connector
1x 4-pin Male Phoenix Connector
3x 5-pin Male Phoenix Connector
2x Mounting Brackets
1x Quickstart Guide
## Specifications

### Audio and Video

#### Inputs
- 1x VGA In: 15-pin Component Video
- 1x DP In: DisplayPort 1.3
- 2x HDMI In: 19-pin type A

#### Outputs
- 1x HDMI Out: 19-pin type A
- 1x HDBT Out (Class A): 8-pin RJ-45 Female
- 1x Audio Out (Analog): 5-pin Phoenix

#### Output Video Encoding
- HDBaseT Class A

#### Encoding Data Rate
- 9.2Gbps

#### End to End Latency
- 10μs

#### Audio Formats
- 2ch PCM | Multichannel: Up to Dolby Digital and DTS 5.1ch

### Video Resolutions (Max)

- **HDMI/DisplayPort**
  - 1920x1080p @60Hz 12bit (15m/49ft)
  - 1920x1200p @60Hz 12bit (15m/49ft)
  - 3840x2160p @30Hz 4:4:4 8bit (7m/23ft)

- **Using Cat6**
  - 1920x1080p @30Hz 12bit (100m/328ft)
  - 1920x1200p @60Hz 12bit (100m/328ft)
  - 3840x2160p @30Hz 4:4:4 8bit (70m/230ft)

- **Using Cat6a/7**
  - 1920x1080p @30Hz 12bit (100m/328ft)
  - 1920x1200p @60Hz 12bit (100m/328ft)
  - 3840x2160p @30Hz 4:4:4 8bit (100m/328ft)

#### Color Depth
- 1080p: 12bit | 4K: 8bit

#### Maximum Pixel Clock
- 297MHz

### Communication and Control

#### HDMI
- HDMI 1.4 | HDCP 1.4 | EDID | CEC | DVI/D supported with adapter (not included)

#### HDBaseT
- HDMI 1.4 | HDCP 1.4 | EDID | CEC | RS-232 | Ethernet

#### Contact Closures
- 1x Tally Out: 5-pin Phoenix | 1x Contact In: 5-pin Phoenix

#### RS-232
- 1x RS-232 (Switcher): 4-pin Phoenix | 1x RS-232 (HDBT): 3-pin Phoenix (Bidirectional)

#### Ethernet
- 1x Ethernet: 8-pin RJ-45 Female | 10/100Mbps | Bidirectional over HDBaseT

#### CEC Link
- 1x CEC Link: 3-pin Phoenix

### Power

#### Power Supply
- 12V DC 3A

#### PoH
- IEEE 802.3af 15.4W

#### Max Power Consumption
- 22w (Includes PoH)

### Environmental

#### Operating Temperature
- 0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing

#### Storage Temperature
- -20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing

#### Maximum BTU
- 76 BTU/hr

### Dimensions and Weight

#### Rack Units/Wall Box
- <1U

#### Height
- 21mm/0.83in

#### Width
- 220mm/8.67in

#### Depth
- 164.2mm/6.47in

#### Weight
- 0.82kg/1.8lbs

### Regulatory

#### Safety and Emission
- CE | FCC | RoHS