

MATRIX SWITCHER - ALF-SM62T

6 x 2 4K Presentation Switcher with Matrix Outputs.



DESCRIPTION

The ALF-SM62-T is a professional 6x2 4K presentation switcher kit consists of a switcher and an HDBaseT Receiver.

The switcher is a 6 input multi-format (3 HDMI, 2 VGA, and 1 DP) 4K presentation switcher that switches video signals to an HDMI and an HDBaseT output. The HDBaseT output supports PoH and can connect to compatible HDBaseT receiver up to a maximum of 70 meters (230 feet).

The switcher supports video resolutions up to UHD (4Kx2K@30Hz 4:4:4). With multiple built-in EDID settings, including an EDID pass-through option, the highest quality digital video signal will be routed directly to the display. When a VGA video signal is connected, the video signal will be scaled up to 1920x1200.

The switcher supports stereo and multichannel audio on the HDMI/DP inputs. The analog audio paired with the VGA inputs is embedded into the digital video stream. In addition to the audio embedded in the HDMI and HDBT output stream, which may be muted, the audio is simultaneously de-embedded to an amplifier, a digital optical audio output, and four analog audio outputs: two 3-pin phoenix connectors, a 3.5mm mini jack, and a 5-pin phoenix connector.

The switcher features multiple methods of control. When set to Auto, the switcher will automatically switch to the newest source device added to the switcher; when the active source is removed, the switcher will switch to the first detected input. The switcher can be manually controlled via the front panel, IR, RS232, and GUI.

FEATURES

- The transmission distance between the switcher and HDBaseT receiver can up to 70m at 1080p, and 40m at 4K video.
- Supports auto-switching.
- HDMI input supports 4Kx2K@30Hz 4:4:4, HDCP2.2.
- VGA video resolution can be selected as 1024x768, 1280x720, 1280x800, 1360x768, 1920x1080 or 1920x1200.
- The MIC and LINE input can be mixed to audio outputs.
- 3-type microphone input, supports condenser microphone, dynamic microphone and wireless microphone.
- Supports audio matrix: 1 MIC input, 1 LINE input, 1 HDMI embedded audio input, 1 HDBT embedded input, 2 unbalanced audio outputs (3-pin phoenix connectors), 1 balanced/unbalanced audio output (3-pin phoenix connector), 1 analog stereo audio output (3.5mm mini-jack), 1 digital optical audio output (SPDF) and 1 2x20 watt@4Ω amplifier. The balanced/unbalanced audio output, analog stereo audio output and digital optical audio output have come from the same input audio.
- Supports embedded EDID selection and customized EDID.
- Supports 48V PoH for simplified wiring.
- Controllable via front panel buttons, IR Remote, RS232 & GUI.
- Supports online software upgrading.

TECHNICAL SPECIFICATIONS

6x2 4K Presentation Switcher

Video Input

Input	: (3) HDMI; (1) DP; (2) VGA
Input Connector	: (3) Female HDMI; (1) DisplayPort; (2) Female VGA (15-pin)
Input Video Signal	: HDMI, DP, VGA
HDMI Input Resolution	: Up to 4Kx2K@30Hz 4:4:4
DP Input Resolution	: Up to 4Kx2K@30Hz
VGA Input Resolution	: Up to 1920x1200@50/60Hz

Video Output

Output	: (1) HDMI; (1) HDBT
Output Connector	: (1) Female HDMI; (1) RJ45
Output Video Signal	: HDMI, HDBaseT
HDMI Output Resolution	: Up to 4Kx2K @30Hz 4:4:4
HDBT Output Resolution	: Up to 4Kx2K @30Hz 4:4:4
VGA Scaling Resolution	: 1024x768, 1280x720, 1280x800, 1360x768, 1920x1080, or 1920x1200 can be selected.

Audio Input

Input	: (2) Stereo analog audio for VGA; (1) LINE audio; (1) Microphone audio
Input Connector	: (2) 3.5mm stereo jacks; (2) 3-pin phoenix connectors
De-embedded Audio Input	: HDMI and HDBT audio
Input analog Audio Format	: PCM
Audio Input Impedance	: >10kΩ

Audio Output

Output	: (2) Unbalanced analog audio (AUDIO 1 and AUDIO 2); (1) L/R balanced/unbalanced analog audio (AUDIO 3); (1) Stereo analog audio (AUDIO 3); (1) Digital optical audio (AUDIO 3); (1) Power amplifier
Output Connector	: (2) 3-pin phoenix connectors; (1) 5-pin phoenix connector; (1) 3.5mm stereo jack; (1) SPDIF; (1) 4-pin/5 mm phoenix connectorAudio
Output Analog Audio Format	: PCM
Output Digital Audio Format	: PCM/Dolby/DTS

TECHNICAL SPECIFICATIONS CONTINUED

6x2 4K Presentation Switcher

Audio Output continued

Audio Output Impedance	: 70 Ohms
Frequency Response	: 20 Hz to 20 kHz, ± 3 dB
Common Mode Rejection Ratio (CMRR)	: >70 dB at 20 Hz to 20 kHz
Signal to Noise Ratio (SNR)	: 80 dB (Max)

Control

Control port	: (1) EDID; (1) IR IN; (1) FIRWARE; (1) RS232; (1) TCP/IP
Control Connector	: (1) 3-pin DIP switch; (1) 3.5mm mini jack; (1) Micro USB; (1) 3-pin phoenix connector; (1) RJ45

General

Transmission Distance	: HDBT OUT: 1080p \leq 70m; 4Kx2K \leq 40m
Operation Temperature	: 0 ~ +40°C
Storage Temperature	: -10 ~ +55°C
Relative Humidity	: 10% ~ 90%
External Power Supply	: 100V~240V AC, 50/60Hz
Power Consumption	: 40W (Max)
Dimension (W*H*D)	: 436.4mm x 44mm x 236.5mm
Net Weight	: 2.4kg

HDBaseT Receiver

Input

Input Signal	: (1) IR; (1) HDBaseT; (1) RS232
Input Connector	: (1) 3.5mm mini jack; (1) RJ-45; (1) 3-Pin phoenix connector

Output

Output	: (1) HDMI; (1) IR; (1) RS232
Output Connector	: (1) Female HDMI; (1) 3.5mm mini jack; (1) 3-Pin phoenix connector

General

Resolution Range	: Up to 4Kx2K@30Hz
Transmission Mode	: HDBaseT
Transmission Distance	: 1080P \leq 70m; 4Kx2K \leq 40m
Bandwidth	: 10.2Gbps
HDMI Standard	: Support HDMI1.4 and HDCP2.2
Impedance	: 75 Ω
Operation Temperature	: 0 ~ +40°C
Storage Temperature	: -10 ~ +55°C
Relative Humidity	: 10% ~ 90%
External Power Supply	: Input: 100VAC~240VAC, 50/60Hz Output: DC 24V, 1.25A
Power Consumption	: 11W
Dimension (W*H*D)	: 115mm x 16mm x 84mm
Net Weight	: 150g

SYSTEM DESIGN

