avgear

ANY SIGNAL ANYWHERE

AVG-UDA24-HD70

HDMI2.0 2x4 Switcher over CAT

The AVG-UDA24-HD70 supports switching between two video signal and long distribution range up to 4K 70m via CATx, with HDMI loop out for cascading. It supports video resolutions up to 4K@60Hz 4:4:4 8bit and all HDMI audio formats, and down-scaling from 4K to 1080P. Also supports Audio de-embedding, and PoC to power the receiver.

Features

- Supports HDMI V2.0, video resolutions up to 4K@60Hz 4:4:4.
- Transmission distance up to 70m for 4K and 80m for 1080p
- Distributes one of two UHD/4K HDMI inputs to four CATx outputs and one HDMI loop output.
- Comprehensive EDID management
- Video auto-switching based on 5V or TMDS detection.
- SPDIF and L/R audio outputs for audio de-embedding.
- Bi-directional IR pass-through and IR cascade control.
- Controllable via front panel button, IR and RS232.
- 12V PoC to power the receiver.

Specifications

Switcher

Video Input	
Input	(1) HDMI
Input Connector	(1) Female type A HDMI
HDMI Input Resolution	Up to 4K@60Hz 4:4:4 8bit
Video Output	
Output	(1) HDMI, (4) CAT
Output Connector	(1) Female type A HDMI; (4) RJ45
HDMI Output Resolution	Up to 4K@60Hz 4:4:4
CAT Output Resolution	Up to 4K@60Hz 4:4:4 (Signal has been compressed.)
SPDIF Audio Output	
Audio Output	(1) SPDIF
Audio Output Connector	(1) Toslink
Audio Format	LPCM 2ch, Dolby Digital 2ch, 5.1ch, 7.1ch, Dolby Ture HD 7.1ch, DTS 2ch, 5.1ch
Output Level	±0.05dBFS
Frequency Response	20Hz ~20kHz, ±1dB
THD+N	< 0.05%, 20Hz ~20kHz bandwidth, 1kHz sine at 0dBFS level (or max level)
SNR	> 90dB, 20Hz ~20kHz bandwidth
Crosstalk Isolation	> 70dB, 10kHz sine at 0dBFS level (or max level before clipping)
Noise	-90dB
Stereo Balanced L/R Audio Output	
Audio Output	(1) Stereo balanced L/R audio

Audio Output Connector	(1) 5-pin terminal block
Audio Format	PCM
Frequency Response	20Hz ~20kHz, ±1dB
Max output level	2.0Vrms ± 0.5dB.
THD+N	< 0.05%, 20Hz ~20kHz bandwidth, 1kHz sine at 0dBFS level (or max level)
SNR	> 80dB, 20Hz ~20kHz bandwidth
Crosstalk Isolation	> 70 dB, 10kHz sine at 0dBFS level (or max level before clipping)
L-R Level Deviation	< 0.3 dB, 1kHz sine at 0dBFS level (or max level before clipping)
Output Load Capability	1kohm and higher (supports 10x paralleled 10kohm loads)
Noise	- 80dB
Control	
Control port	(1) EDID, (1) FIRMWARE, (1) IR ALL IN, (4) IR IN, (1) IR LOOP OUT, (1) IR OUT, (1) RS232 IN
Control Connector	(1) 3-pin DIP switch, (1) USB-A, (7) 3.5mm mini jacks, (1) 3-pin terminal block
General	
HDMI Standard	2.0
HDCP Version	2.2
PoC	12V PoC power for the receiver
Transmission Distance	4K⩽ 70 meters (230ft), 4K/1080p ⩽ 70 meters (230ft)
Operation Temperature	-10 ~ +55℃
Storage Temperature	-25~ +70℃
Relative Humidity	10% ~ 90%

AC Adapter Input Power	100V~240V AC, 50/60Hz
Input Power	12V DC 2A
Power Consumption	14.5W (Max)
Dimension (W*H*D)	200mm x 44mm x 130mm
Net Weight	855g

Note: *SPDIF audio output does not support DTS-HD Master Audio and Dolby TrueHD format.*

Receiver

Video	
Input	(1) CAT
Input Connector	(1) RJ45
Input Resolution	Up to 4K@60Hz 4:2:0
Output	(1) HDMI
Output Connector	(1) Type-A female HDMI
Output Resolution	Up to 4K@60Hz 4:4:4 8bit HDR10
Control	
Control Part	(1) IR In, (1) IR Out
Control Connector	(2) 3.5mm jacks
General	
Bandwidth	18Gbps
HDMI Standard	2.0
HDCP Version	2.2, 1.4 compliant
Bidirectional PoC	Supported
HDMI 2.0 Cable Length	4K@60Hz 4:4:4 ≤ 5m, 4K@60Hz 4:2:0 ≤ 10m, 1080p ≤ 15m
Transmission Distance	4K ⩽ 70 meters (230ft), 1080p ⩽262 feet (80 meters)
Operation Temperature	-5~ +55℃

Storage Temperature	-25 ~ +70˚C
Relative Humidity	10%-90%
Power Supply	Input:100V~240V AC; Output:12V DC 1A
Power Consumption	4W (Max)
Dimension (W*H*D)	80mm x 16.8mm x 80mm
Net Weight	70g

Note: *Please use quality CAT Ethernet cable compliant with CAT5e or higher standard for reliable transmission.*