



DSCV1-70-TX

DSCV2-70-TX-US

DSCV2-70-TX-UK



Discovery Series

1 or 2-gang US & UK Standard
HDBaseT 2.0 Wall Plate
Transmitter & Receiver Kits

*USB-C & 2x HDMI inputs, USB 2.0 pass through,
Audio de-embedding and PoH*



DSCV-70-RX

DESCRIPTION

Our Discovery Series offers a cost-effective 4K extension with flexible USB and HDMI capabilities for software video conferencing and audio extraction. These kits were designed specifically to address signal extension for multiple participants in classrooms, huddle spaces, or conference rooms. The Discovery series includes an HDBaseT Wall Plate Transmitter, and Receiver kit that pairs natively with soft-codec video conferencing applications such as Zoom, Teams, Skype, WebEx and more. With both US and UK transmitter wallplate options available, Discovery makes collaboration easy and fluid with support for resolutions up to 4K.

DSCV1-70-TX

Single Gang HDBaseT Wall Plate Transmitter and Receiver with USB Hub & Audio Extraction

The Discovery 1 signal extender kit was designed specifically to address HDMI and USB extension for soft-codec Video Conferencing with applications such as Zoom, Teams, Skype, WebEx and more.

DSCV2-70-TX-US

DSCV2-70-TX-US

2-Gang HDBaseT 2.0 Wall Plate Transmitter & Receiver Kits with USB-C & 2x HDMI inputs, USB 2.0 pass through, Audio de-embedding and PoH.

DSCV2-70-TX-UK

4K UHD In-Wall Transmitter with USB host and CEC Triggering

This product is a 3 x 1 auto switching HDBaseT 2.0 transmitter that supports long distance transport of HDMI, USB-C and high-speed USB 2.0 signals up to 40m/131ft using a Cat 5e/6/6a/7 cable. It is 4K compatible with a max resolution of 4K@60Hz/4:2:0 8bit deep color. The PoH feature enables the transmitter to be powered by an HDBT receiver.

DSCV-70-RX

HDBaseT 2.0 Receiver with USB and Audio De-embedding

This product is an HDBT 2.0 receiver that is designed to work with an HDBT wall plate transmitter, reliably extending UHD video, multi-channel audio, USB 2.0, RS232 signal and power up to 40m/131ft using a single Cat 5e/6/6a/7 cable. With PSE module built-in, it can supply power to the transmitter with PD module via a single power supply.

DSCV-70-RX Specifications

Technical	
Input/Output Port	1 x HDBT IN, 1 x HDMI OUT, 1 x RS232, 2 x AUDIO OUT (One for De-embed and another one for Pass-through), 4 x USB DEVICE, 1 x DC 12V IN
Input Signal Type	HDBT 2.0
Output Signal Type	HDMI with 4K@60Hz 4:2:0 8 bit, HDCP 2.2
Input/Output Supported Resolution	<p>VESA: 800x600⁸, 1024x768⁸, 1280x768⁸, 1280x800⁸, 1360x768⁸, 1366x768⁸, 1440x900⁸, 1600x900⁸, 1600x1200⁸, 1680x1050⁸, 1920x1200⁸</p> <p>SMPTE: 1280x720P^{1,2,3,4,5,6,7,8}, 1920x1080I^{6,8}, 1920x1080P^{1,2,3,4,5,6,7,8}, 3840x2160^{2,3,5,6,8}, 4096x2160^{2,3,5,6,8}</p> <p>1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = at 60 Hz</p> <p>NOTE: 4096x2160/3840x2160@50Hz/60Hz is based on chroma sub-sampling 4:2:0 8-bit only.</p>
Maximum Pixel Clock	340MHz
Audio Format	<p>HDMI OUT: Supports multi-channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X</p> <p>AUDIO OUT: Stereo</p>

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	DC 12V 3A
Power Consumption (Max)	8W (Without USB)
Device Dimension (W x H x D)	210mm x 25mm x 90.2mm/8.27" x 0.98" x 3.55"
General	
Product Weight	0.46kg/1.01lbs

Transmission Distance

Note: Straight-through category cable wired to T568B standard is recommended.

Cable Type	Range	Supported Video
Cat 5e/6	60m/197ft	1080p@60Hz, 36bpp
Cat 6a/7	70m/230ft	
Cat 5e/6	35m/115ft	4K@30Hz 4:4:4, 24bpp
Cat 6a/7	40m/131ft	4K@60Hz 4:2:0, 24bpp

DSCV1-70-TX Specifications

Technical	
Input/Output Port	1 x HDMI IN, 1 x HDBT OUT, 1 x RS232, 1 x USB HOST, 1 x DIP Switch, 1 x DC 12V IN (2-Pin Phoenix Connector)
Input/Output Resolution Supported	<p>VESA: 800x600⁸, 1024x768⁸, 1024x768⁸, 1280x768⁸, 1280x800⁸, 1280x960⁸, 1280x1024⁸, 1360x768⁸, 1366x768⁸, 1400x1050⁸, 1440x900⁸, 1600x900⁸, 1600x1200⁸, 1680x1050⁸, 1920x1200⁸</p> <p>SMPTE: 1280x720P^{1,2,3,4,5,6,7,8}, 1920x1080I^{6,8}, 1920x1080P^{1,2,3,4,5,6,7,8}, 3840x2160^{2,3,5,6,8}, 4096x2160^{2,3,5,6,8}</p> <p>1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = at 60 Hz</p> <p>NOTE: 4096x2160/3840x2160@50Hz/60Hz is based on chroma sub-sampling 4:2:0 8-bit only</p>
Input/Output Audio formats Supported	<p>HDMI: Supports multi-channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X</p> <p>AUDIO OUT: Stereo</p>
Maximum Data Rate	10.2Gbps
Maximum Pixel Clock	340MHz

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	DC 12V 2A, with PoH function, the transmitter can be powered by the receiver with PSE module
Power Consumption (Max)	13.44W
Device Dimension (W x H x D)	45mm x 45.3mm x 105.6mm/ 1.77" x 1.78" x 4.16"
Product Weight	0.16kg/0.35lb

Transmission Distance

Note: T568B straight-through Category cable is recommended.

Cable Type	Range	Supported Video
Cat 5e/6	60m/197ft	1080P@60 36bpp
Cat 6a/7	70m/230ft	
Cat 5e/6	35m/115ft	4K@30Hz 4:4:4 24bpp 4K@60 4:2:0 24bpp
Cat 6a/7	40m/131ft	

DSCV2-70-TX-UK Specifications

Technical	
Input/Output Port	2 x HDMI IN, 1 x USB-C, 1 x AUDIO IN (Unbalanced stereo 3.5mm), 1 x USB HOST, 1 x HDBT OUT, 1 x RS232 (4-Pin 3.5mm Phoenix connector), 1 x UPDATE (Micro USB, covered by the front panel)
Input Video Signal	HDMI (4K@60Hz YUV 4:2:0, HDCP 2.2), USB-C DP Alt mode
Output Video Signal	HDBT 2.0
Input/Output Resolution Supported	HDMI: VESA: 800x600 ⁸ , 1024x768 ⁸ , 1280x720 ⁸ , 1280x768 ⁸ , 1280x800 ⁸ , 1280x960 ⁸ , 1280x1024 ⁸ , 1360x768 ⁸ , 1366x768 ⁸ , 1440x900 ⁸ , 1600x900 ⁸ , 1600x1200 ⁸ , 1680x1050 ⁸ , 1920x1080 ⁸ , 1920x1200 ⁸ , 2560x1440 ⁸ , 2560x1600 ⁸ SMPTE: 3840x2160P ^{2,5,8} (YUV4:2:0), 4096x2160P ^{2,5,8} (YUV4:2:0) USB-C: Same as above 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = 60 Hz
Audio Format	HDMI/USB-C: Fully supports audio formats in HDMI 2.0 specification, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X AUDIO IN: Stereo
Maximum Pixel Clock	340MHz
Maximum Data Rate	10.2Gbps
Control Method	Auto Switching, Front panel buttons, API commands

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
General	
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	PoH, powered by connected receiver with PSE module; or local power supply through the 12V phoenix connector
Power Consumption (Max)	7.8W
Device Dimension (WxHxD)	146mm x 38.5mm x 86mm/5.75" x 1.52" x 3.39"
Product Weight	0.3kg/0.66lbs

Transmission Distance

Note: T568B straight-through Category cable is recommended.

Cable Type	Range	Supported Video
Cat 5e/6	60m/197ft	1080P@60 36bpp
Cat 6a/7	70m/230ft	
Cat 5e/6	35m/115ft	4K@30Hz 4:4:4 24bpp 4K@60 4:2:0 24bpp
Cat 6a/7	40m/131ft	

DSCV2-70-TX-US Specifications

Technical	
Input/Output Port	2 x HDMI IN, 1 x USB-C, 1 x AUDIO IN (Unbalanced stereo 3.5mm), 1 x USB HOST, 1 x HDBT OUT, 1 x RS232 (5-Pin 3.5mm Phoenix connector), 1 x UPDATE (Micro USB)
Input Video Signal	HDMI (4K@60Hz YUV 4:2:0, HDCP 2.2), USB-C DP Alt mode
Output Video Signal	HDBT 2.0
Input/Output Resolution Supported	<p>HDMI: VESA: 800x600⁸, 1024x768⁸, 1280x720⁸, 1280x768⁸, 1280x800⁸, 1280x960⁸, 1280x1024⁸, 1360x768⁸, 1366x768⁸, 1440x900⁸, 1600x900⁸, 1600x1200⁸, 1680x1050⁸, 1920x1080⁸, 1920x1200⁸, 2560x1440⁸, 2560x1600⁸</p> <p>SMPTE: 3840x2160P^{2,5,8}(YUV4:2:0), 4096x2160P^{2,5,8}(YUV4:2:0)</p> <p>USB-C: Same as above 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = 60 Hz</p>
Audio Format	<p>HDMI/USB-C: Fully supports audio formats in HDMI 2.0 specification, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X</p> <p>AUDIO IN: Stereo</p>
Maximum Pixel Clock	340MHz
Maximum Data Rate	10.2Gbps
Control Method	Auto Switching, Front panel buttons, API commands

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
General	
Power Supply	PoH, powered by connected receiver with PSE module; or local power supply through the 12V phoenix connector
Power Consumption (Max)	7.8W
Device Dimension (WxHxD)	89mm x 38.4mm x 105.6mm/3.5" x 1.51" x 4.16"
Product Weight	0.3kg/0.66lbs

Transmission Distance

Note: T568B straight-through Category cable is recommended.

Cable Type	Range	Supported Video
Cat 5e/6	60m/197ft	1080P@60 36bpp
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Cat 6a/7	40m/131ft	