

Advanced 150m HDMI Receiver

HE-2150UM-R



DESCRIPTION

Taska HE-2150UM-R is a 4K long-range HDMI Receiver. It leverages an optimized version of HDBaseT technology. It allows you to reliably transmit high-definition audio, video, and control signals over a single CAT6/6a cable. It supports stunning video quality up to 4K@60Hz 4:4:4 and can extend your signal up to 120 meters for 4K content and 150 meters for 1080p content.

Its innovative bi-directional Power over Cable (PoC) design offers superior installation flexibility. This feature allows you to power both units from either the transmitter or receiver side using just one power adapter, simplifying setup and reducing cable clutter.

It offers flexible features like bidirectional IR and RS-232 control for managing your devices from a distance. It also includes advanced audio options such as output to analog stereo, making it a complete and versatile solution for any home or professional installation.

PRODUCT FEATURES

- | 4K HDMI Network Cable Extender, supports 1080P at a maximum distance of 150 meters and 4K at a maximum distance of 120 meters.
- | Compatible with HDMI 2.0b, HDCP 2.2/HDCP 1.4, and DVI 1.0, with a maximum bandwidth of 18Gbps.
- | The receiver supports one TX input and one local HDMI input, with auto-switching (HDMI 5V detection).
- | LAN port supports PoE+ for powering the extender.
- | The receiver supports audio stripping through analog L/R output.
- | Bidirectional IR, RS-232, and CEC pass-through.
- | HDR, HDR 10+, Dolby Vision, and HLG pass-through.
- | Bidirectional PoC (Power over Cable) functionality.
- | Designed for easy installation.

SPECIFICATION

Technical			
HDMI Compliance	HDMI 1.4/2.0b		
HDCP Compliance	HDCP 1.4/2.2		
Video Bandwidth	18Gbps		
Input Video Resolutions	4096x2160p60Hz, 4096x2160p59.94Hz, 4096x2160p50Hz, 4096x2160p30Hz, 4096x2160p29.97Hz, 4096x2160p25Hz, 4096x2160p24Hz, 4096x2160p23.98Hz, 3840x2160p60Hz, 3840x2160p59.94Hz, 3840x2160p50Hz, 3840x2160p30Hz, 3840x2160p29.97Hz, 3840x2160p25Hz, 3840x2160p24Hz, 3840x2160p23.98Hz, 1920x1080p60Hz, 1920x1080p59.94Hz, 1920x1080p50Hz, 1920x1080p30Hz, 1920x1080p29.97Hz, 1920x1080p25Hz, 1920x1080p24Hz, 1920x1080p23.98Hz, 1920x1080i60Hz, 1920x1080i59.94Hz, 1920x1080i50Hz, 1280x720p60Hz, 1280x720p59.94Hz, 1280x720p50Hz, 720x480p59.94Hz, 720x576p50Hz, 720x480i59.94Hz, 720x576i50Hz, 1600x1200p60Hz, 1440x1050p60Hz, 1440x900p60Hz, 1366x768p60Hz, 1280x1024p60Hz, 1024x768p60Hz, 800x600p60Hz, 640x480p60Hz		
	Output Video Resolutions		
	Input to output passthrough		
	Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0	
	Color Depth	8/10/12bit	
	HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG	
	Audio Formats	HDMI IN/OUT:	
		LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD	
Analog Audio de-embedding: LPCM 2CH (sample rate 32~192kHz)			
Analog Input/Output Audio Parameters	Output Impedance	300 ohms	
	Output Level (Max)	8.2dBu (2Vrms)	
	Frequency Response	20Hz to 20kHz (-/+0.5dB)	
	Audio Output Sync Delay	<1ms	
	Audio S/N Ratio	>90dB@ HDMI 0dB, 1kHz A-weighted	
	Audio THD+N	< 0.01% at +4dBu, 1KHz	
Transmission	HDMI passive cable 3m; CAT6/6A cable 120m@4K60; CAT6/6A cable 150m@1080P		
IR Frequency	20K-60KHz		
IR Level	5Vp-p		
Connection			
Input	1 x HDMI IN [Type A, 19-pin female]		
	1 x FROM TX [RJ45 connector, supporting 24V PoC]		
Output	1 x HDMI OUT [Type A,19-pin female]		
	1 x AUDIO OUT [5pin-3.5 Phoenix connector]		
Control	1 x RS-232 [5pin-3.5mm Phoenix connector]		
	1 x IR IN [3.5mm audio jack]		
	1 x IR OUT [3.5mm audio jack]		
	1 x USB-C [USB 2.0 only, MCU/HDBT FW upgrade port]		
Mechanical			
Color	Black		
Dimensions	180mm [W] × 90mm [D] × 23mm [H]		
Weight	476g		
Electrical			
Power Consumption	7W (Max)		
Power Supply	Locking 5.5mm x 2.5mm jack: DC 24V/1A; PoE (IEEE802.3at Class 4, PD mode)		
Environment			
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F		
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F		
Operating Humidity	20~80% RH (Non-condensing)		
Storage Humidity	10~90% RH (Non-condensing)		