

VE2812R

HDMI HDBaseT Receiver with Audio De-Embedding (4K@100m) (HDBaseT Class A)



The VE2812R is a high-quality HDMI HDBaseT Receiver featuring audio de-embedding function. Powered by [HDBaseT™](#) technology, the VE2812R can receive 4K HDMI signals up to 100 m over a single Cat 5e/6/6a or ATEN [2L-2910](#) Cat 6 cable. With HDBaseT Long Reach Mode enabled, it can deliver HDMI signals up to a maximum range of 150 meters @ 1080p.

The VE2812R's audio de-embedding function extracts the audio signal from the HDMI and converts it into Coaxial S/PDIF or Stereo Audio signal and delivers to an audio system that is separated from the display. Compatible with HDMI 1.4 (3D, Deep Color, 4k) and [HDCP 2.2](#), the VE2812R ensures reliable transmission of high-quality uncompressed HDMI signals.

The VE2812R is recommended to be deployed in paired with the [VE2812T](#). The VE2812R can carry on IR/RS-232 from the [VE2812T](#), allowing users to remotely control the [VE2812T](#) unit through RS-232 command mode via input port switching. The solution is ideal for a variety of settings, such as [meeting rooms](#), digital educational environment or wherever high video quality is required.



Features

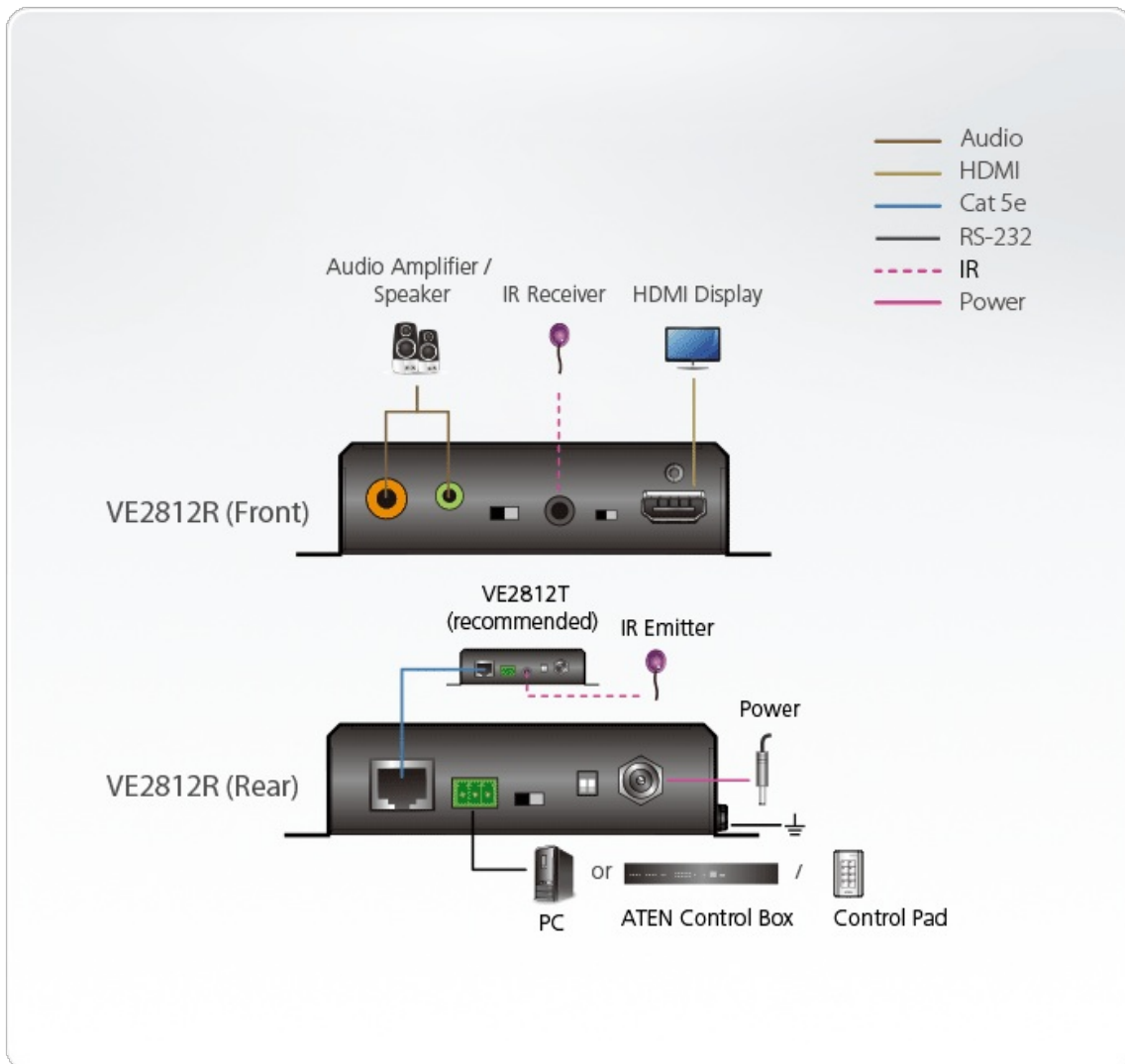
- Superior video quality
 - 4K HDMI up to 100 m via a single Cat 5e/6/6a or ATEN [2L-2910](#) Cat 6 cable
 - 1080p up to 150 m via a single Cat 5e/6 cable in HDBaseT Long Reach Mode
- HDMI 1.4 (3D, Deep Color, 4K); [HDCP 2.2](#) compliant
- Supports Audio [EDID](#) Switching (2ch Stereo, 5.1ch Surround sound, and AUTO)
- Supports Audio De-Embedding – extracts audio stream from an HDMI source and delivers as a separate audio from HDMI, Coaxial S/PDIF, or Stereo audio output
- Features RS-232 Serial Communication Switch – Command mode and Bypass mode to meet application requirements
- Supports bi-directional IR signal transmission - two way IR protocol delivery by one IR port; IR transmission is processed one direction at a time
- Firmware upgradable
- Built-in 8KV / 15 KV ESD protection
- Plug-and-play
- Rack-mountable using the [VE-RMK1U](#)

Specifications

Video Output

Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m (2L-7D03H)
Video	
Max. Data Rate	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolution	*4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)
Audio	
Output	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x SPDIF Coaxial Female (Orange)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking
Control	
RS-232	Connector: 1 x Terminal Block, 3 pole; Type: DTE Baud Rate: 115200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)
Power Consumption	DC5V:4.98W:43BTU
Switches	
HDMI Mute	1 x Slide Switch - HDMI Audio ON/OFF
Audio EDID Selection	1 x Slide Switch - Audio Output Format Selection: 2ch / 5.1ch / AUTO
Mode Selection	1 x Slide Switch - RS-232 Bypass or Command mode Selection
Long Reach Mode Switch	1 x Slide Switch - Long Reach mode ON/OFF
Firmware Upgrade	1 x Slide Switch - Firmware Upgrade mode ON/OFF
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C

Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.46 kg (1.01 lb)
Dimensions (L x W x H) with bracket	14.53 x 12.30 x 3.00 cm (5.72 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)

Diagram




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