

VEO-XTT44 and VEO-XRT44

4K HDBASET® EXTENDER / SCALER



PRODUCT OVERVIEW

Ecler VEO-XTT44 and VEO-XRT44 are professional HDBaseT® Transmitter and Receiver of High Dynamic Range (HDR) formats for HDMI® extension. The extenders support video signal resolution up to 4K/UHD at 60Hz with 4:4:4 chroma sampling and HDMI® data rate up to 18Gbps. The scaler implemented in the TX allows to upscale fullHD input to 4K. Bidirectional PoH (Power Over HDBaseT®) allows using a single power supply connected to the Transmitter or the Receiver, in consonance with the installation needs. A 4-pin DIP switch allows managing EDID with multiple and customizable options. The extenders include audio de-embedding and ARC support, bi-directional IR and RS-232 pass-through. A video pattern generator is included in the transmitter for testing purposes during the installation. This product represents the ideal solution for residential and commercial applications that include the latest 4K/UHD and HDR sources and displays.

KEY FEATURES

- Supports HDMI® and the HDMI® video resolution up to 4K@60Hz 4:4:4 HDR.
- HDCP 2.2 and 1.4 supported.
- Extends 4K signals to distances up to 40 meters (131 feet) and 1080P signals to distances up to 70 meters (230 feet) over a single CATx cable.
- Supports video resolution up-scaling, the 1080P input can be automatically upgraded to 4K output.
- SPDIF out on receiver for source audio de-embedding.
- 18Gbps high bandwidth.
- Advanced EDID management: multiple built-in EDID settings or customized EDID can be selected.
- Test pattern provides a built-in 4K/1080P image for troubleshooting.
- Bidirectional IR, RS232 and 24V PoH.
- Supports ARC.
- Supports CEC pass-through.
- LEDs to indicate the current operating status.
- Firmware upgrade by Micro-USB port.
- ESD protection

APPLICATIONS

- Retail Shops
- Fitness Centers
- Sports Bar
- Restaurants
- Hotels
- Residential applications

TECHNICAL DATA

Video performances

Supported Resolutions Up to 4Kx2K@60Hz 4:4:4 8bit HDR10

Colorspace RGB, YCbCr

Chroma Subsampling 4:4:4, 4:2:2, 4:2:0

Color depth 8-bit, 10-bit, 12-bit, 16-bit only @4K30

Signal Bandwidth 18 Gbps

HDCP 2.2/1.4 Compliant

Video Connectors Transmitter: Type-A Female HDMI[®] Receiver: Type-A Female HDMI[®]

Audio performances

Audio Formats PCM 2Ch, PCM 5.1, PCM 7.1, Dolby Digital, DTS, Dolby TrueHD, DTS-HD Master Audio

Sample Rate 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz

Bit rate up to 24-bit

Frequency Response 20Hz – 20KHz, ±3dB

Max Output Level 2.0Vrms ± 0.5dB

SNR > 85dB, 20Hz-20 kHz bandwidth

Audio Connectors Transmitter: Toslink (ARC output) Receiver: Toslink (Audio breakout) Toslink (ARC input)

Control

Transmitter Control ports	Test Pattern	Button,
	1080P → 4K	Button,
	EDID	4-pin DIP switch,
	IR In, IR Out,	minijack 3.5mm
	RS232	3-pin Euroblock
	FW	Micro USB

All product characteristics are subject to variation due to production tolerances. NEEC AUDIO BARCELONA S.L. reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

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Receiver Control ports	ARC On/Off	Button
	IR In, IR Out, RS232 FW	Minijack 3.5mm 3-pin Euroblock Micro USB

CEC Pass-through

General

HDMI® Distance up to 10 meters / 33 ft with Ecler VEO cables

Transmission Standard	HDbaseT®	
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Cat.5e/6 Distance	CAT5e/6 @ 4K	up to 35 meters / up to 115 feet
	CAT6a/7 @ 4K	up to 40 meters / up to 130 feet
	CAT5e/6 @ 1080p	up to 60 meters / up to 197 feet
	CAT6a/7 @ 1080p	up to 70 meters / up to 230 feet

Operating Temperature	-5 to +55°C (23 to +131 °F)
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Humidity 10 to 90 % RH (no condensation)

Power Consumption	12W (Maximum, TX+RX)
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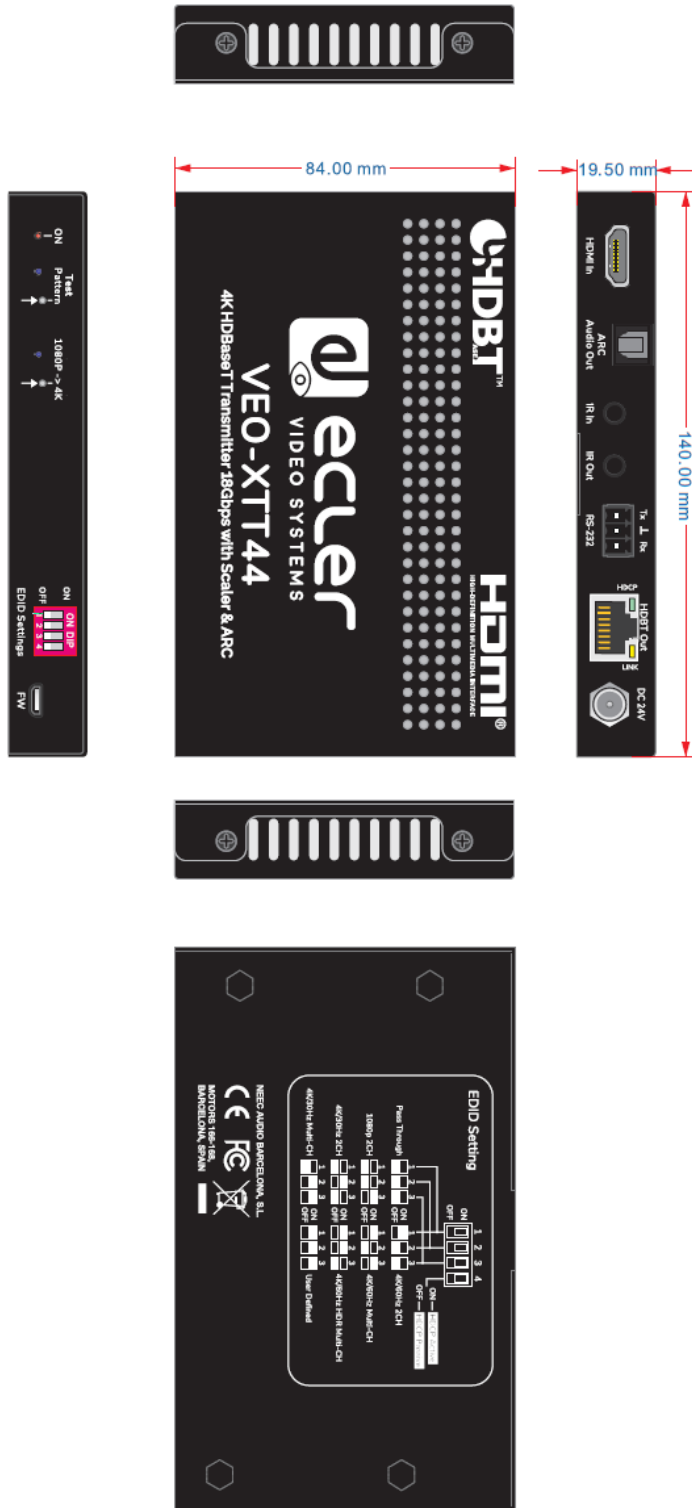
Supply Input AC 100V ~ 240V 50/60Hz Output: DC 24V---1.25A

Dimensions	TX and RX: 140mm × 84mm × 20mm (5.51" x 3.31" x 0.79")
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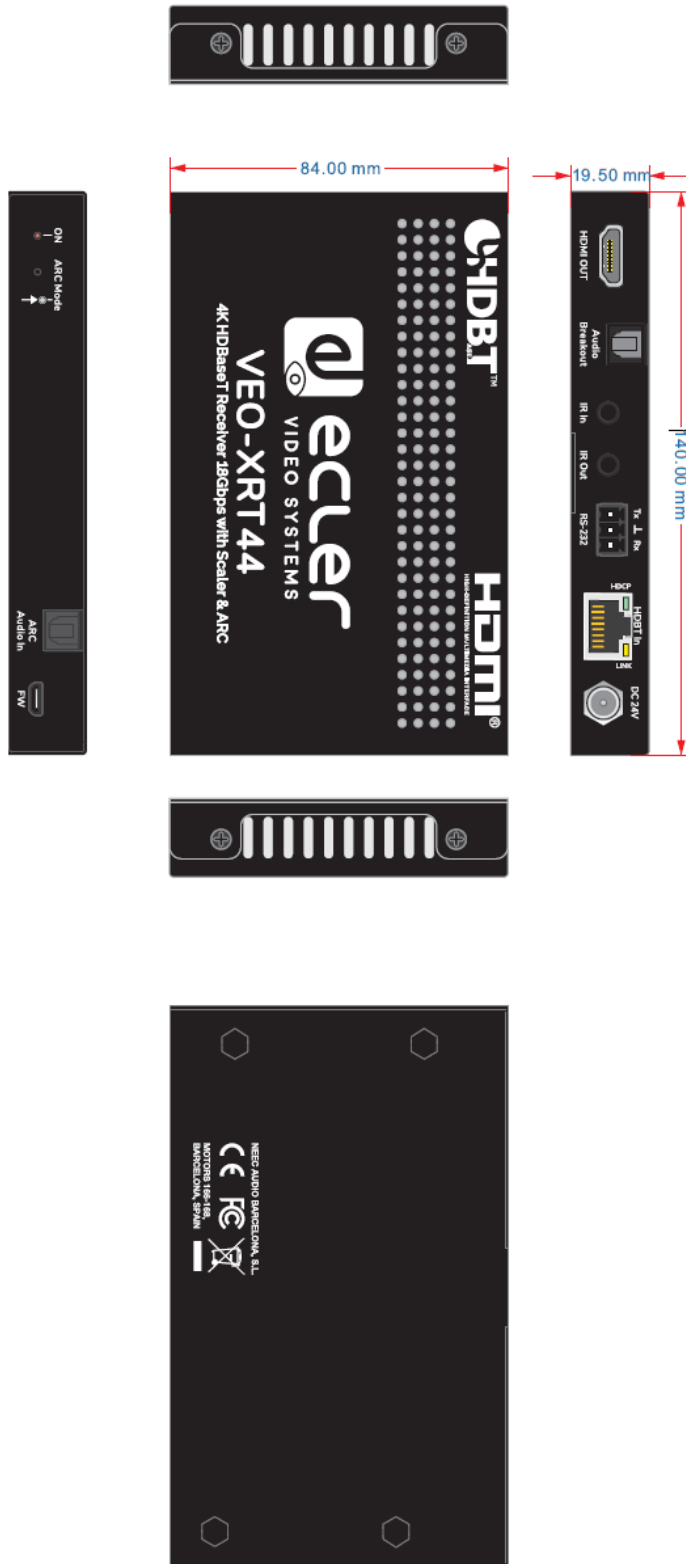
Weight TX:275g (0.606 lbs) RX:290g (0.640 lbs)

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MECHANICAL DIAGRAMS



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