THIA-2R

VIDEO DISTRIBUTION OVER IP

JPEG2000 4K Over IP Video Receiver

PRODUCT OVERVIEW

THIA-2R receiver is a 4K 30 Hz Video-over-IP system based on JPEG2000 compression that enables secure, low-latency distribution of HDMI signals. Designed for easy integration into professional AV networks, it provides advanced control capabilities through its dedicated controller and facilitates interoperability with a wide range of video systems in content distribution and management environments.

KEY FEATURES

- Video over IP Unicast and Multicast distribution over 1Gb managed networks.
- Support for JPEG2000 video codec with 1-2 frame latency.
- Support for HDMI® 18Gbps 4K 30Hz 4:4:4 as specified in HDMI® 2.0b output.
- Transmission distance up to 100 meters over Cat 6 or higher cable.
- Support for Main and Sub Stream for video preview.
- Support for video wall compositing and management up to 9 x 9 setups (via the compatible controller VEO-XCTRL4D with THIA-2C Firmware version installed).
- Support for HDR10, HDR10+, Dolby Vision.
- Support for audio formats LPCM 2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-96/24, DTS-EX DSD, DTS High Res, DTS-HD Master, DTS:X.
- Advanced EDID Management (via VEO-XCTRL4D, using THIA-2C Firmware version installed).
- HDCP 2.2 compliant.
- Stereo unbalanced analogue for audio insertion and extraction via Euroblock connectors.
- USB 2.0/KVM, CEC, RS-232, IR pass-through.
- Control options include RS-232 (in development), SSH control, and WebGUI.
- Support for PoE function.

APPLICATIONS

- Retail
- Hospitality
- Education
- Corporate
- Leisure
- Sport & Wellness

ACCESSORIES & COMPATIBLE PRODUCTS

- **VEO-XCTRL4D**
- **THIA-RK**

TECHNICAL SPECIFICATIONS

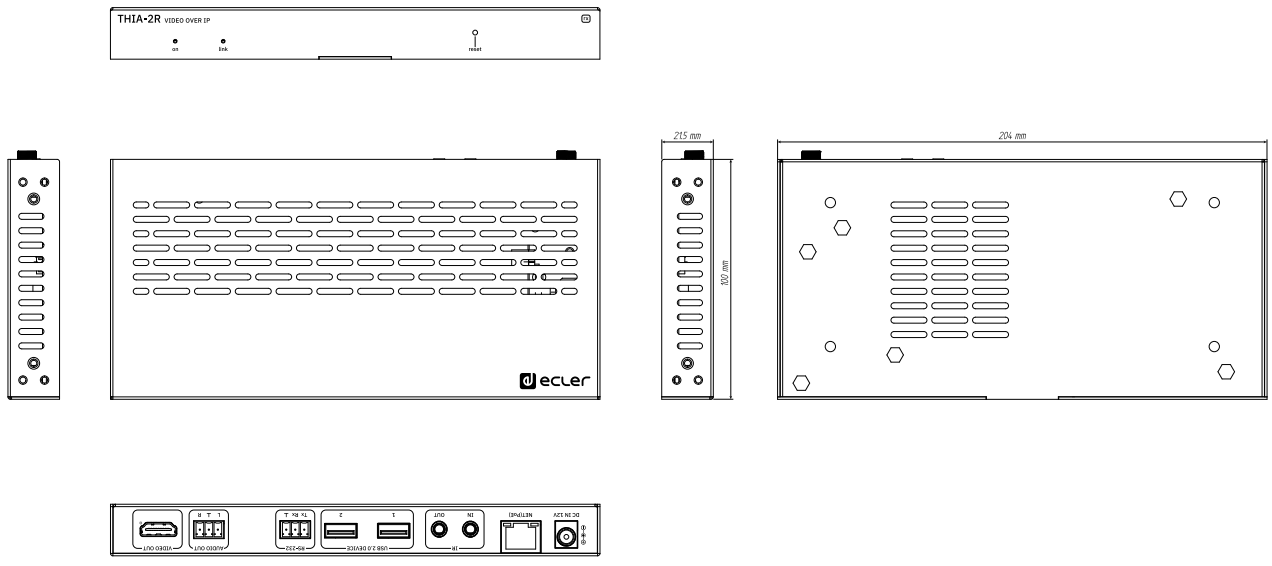
THIA-2R

Video performances	
Video Input Connectors	No
Video Output Connectors	1 x HDMI® Type A Female, 2.0b, 18 Gbps
Video Input Resolutions	THIA-2T: 480i, 480p, 720i, 720p, 1080i, 1080p, 4K up to 60Hz
Video Output Resolutions	4K up to 30Hz (4:4:4)
Video Codec	Main Stream: JPEG2000 Secondary Stream: H.265
Transmission Latency	1-2 Frames
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Colour Depth	8-bit (4K/30Hz 4:4:4) , 10-bit / 12-bit (4K/30Hz 4:2:2 – 4:2:0)
Colour Space	RGB, YCbCr (4:4:4 / 4:2:2), YUV (4:2:0)
HDCP	2.2
HDR	HDR10, HDR10+
Video Composing Capabilities	Videowall up to 9x9
Scaling Features	Yes
HDMI® Distance	Up to 4K/60Hz up to 5m with IN/OUT HDMI® Cable Up to 4K/30Hz up to 10m with IN/OUT HDMI® Cable Up to 1080P/60Hz up to 15m with IN/OUT HDMI® Cable
Audio performances	
Audio Input Connectors	No
Audio Output Connectors	1 x 3-pin unbalanced Euroblock
Audio Formats	LPCM 2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-96/24, DTS-EX DSD, DTS High Res, DTS-HD Master, DTS:X
Sample Rate	48KHz, 96KHz, 192KHZ
Bit Depth	Up to 24-bit
Frequency Response	20Hz-20KHz (±3dB)
ARC/eARC	No
Device control	
Control Connectors	1 x RJ45, 1 x 3-pin Euroblock, 2 x Jack 3,5mm
Control Protocols	Web, Telnet, RS-232 (in development), IR
Control Buttons	No
EDID Management	EDID Settings
Status Indicators	Power LED, Link LED
Pass-through control	
Pass-through Connectors	2 x USB Type A, 1 x 3-pin Euroblock, 2 x 3.5mm Jack, 1 x HDMI®
Pass-through Protocols	USB 2.0, RS-232, IR, CEC
Network	
Network Connectors	1 x RJ-45
Network Requirements	Jumbo frame, IGMP Management
Average Streaming Bitrate	218Mbps for 4K/30Hz
Transmission Distance	100m via Ethernet (Cat 6 / 6A / 7)
Electrical	
Power supply	PoE; External: Input 100-240 VAC-50/60Hz, Output: 12VDC-1A
AC mains connector	External PSU. Included 4 region power blades (UK,US,AU,EU)
DC mains connector	DC Locking
Power consumption	4W

Physical	
Operating temperature	Min: 0°C / 32°F Max: 40°C / 104°F
Operating humidity	20% - 90% RH, no condensing
Storage temperature	Min: -20°C / -4°F Max: 60°C /; 140°F
Storage humidity	20% - 90% RH, no condensing
Installation options	Desktop, THIA-RK
Included accessories	1 x IR Receiver cable (1.5 meters),1 x IR Blaster cable (1.5 meters), 2 x 3-pin 3.5mm Euroblock connector (Green), 2 x Mounting ears, 4 x Mounting screw, 1 x PSU 12V/1A
Optional accessories	VEO-XCTRL4D, THIA-RK
Dimensions (WxHxD)	204 x 21.5 x 100 mm / 8.03x 0.85x 3.94 in.
Weight	0.496 Kg / 1.093 lb.
Shipping dimensions (WxHxD)	255 x 75.5 x 160 mm / 10.04 x 2.97 x 6.30 in.
Shipping weight	0.96Kg / 2.12 lb.
Chassis material	Metal
Finished colour	Black

MECHANICAL DIAGRAM

Ecler THIA-2R Mechanical Diagram



All the measurments are in mm

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