

4K 60Hz 4:4:4 Video over 1Gb Network - Transmitter

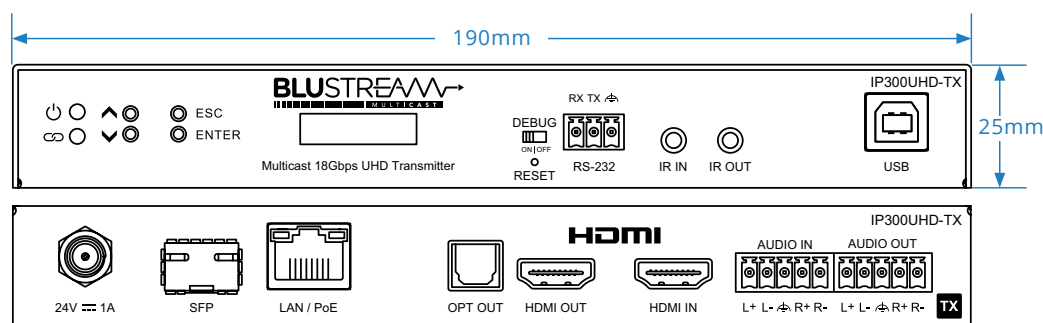
Description

The Blustream IP300 series Video over IP distribution platform allows virtually latency free (1 frame) distribution of 4K 18Gbps HDMI video over a 1Gb managed network.

Featuring full interoperability with the IP350UHD product line where Dante is required, the IP300UHD-TX is an industry leading 4K HDMI transmitter that, using visually lossless compression technology, delivers 18Gbps HDMI, HDCP2.2, audio, bi-directional IR, RS-232 & USB/KVM up to lengths of 100m over standard copper network architecture, or greater distances using the in-built fibre SFP network interface.

The unit can be powered via PoE from the network switch, or locally should the switch not support PoE.

With multiple configuration options available, the flexibility of the Blustream Video over IP solution makes this platform ideal for multiple installation types.



Key Features

- Advanced 4K HDMI 2.0 video over 1Gb managed network supporting 18Gbps HDMI signals
- Virtually unlimited system size
- Extends HDMI up to a distance of 100m over a single CAT cable
- SFP port for signal distribution over fibre
- Features 1 x HDMI loop-out for integrating local displays or cascading to multiple devices
- Supports up to 4K UHD 60Hz 4:4:4
- AES-256 encryption of video signals across network
- Supports bitstream passthrough of multichannel surround sound including object-based audio formats in line with HDMI specifications.
- Advanced signal management for independent routing of IR, RS-232, USB/KVM, audio and video
- PoE (Power over Ethernet) to power Blustream unit from PoE switch
- HDCP 2.2 compliant with advanced EDID management
- Audio breakout to analogue L/R audio, supporting both balanced and unbalanced audio signals
- Balanced/unbalanced analogue audio input for replacing the HDMI embedded audio with a different audio signal
- HDMI ARC, eARC or optical audio return from a display connected to an IP300UHD or IP350UHD receiver
- OLED front panel display for advanced system information and manual configuration
- Optional 24V power supply (should Ethernet switch not support PoE)
- Compatible with Blustream IP300UHD-RX, IP300UHD-WP-TX, and IP350UHD-TX/RX products
- IP300UHD/IP350UHD Multicast platform features 4 operational modes:
 - Matrix distribution (requires 1Gb network switch)
 - Video wall (requires 1Gb network switch)
 - One-to-one HDMI extender (no network switch required)
 - One-to-many HDMI extender (no network switch required)

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Connectivity

- **Video Input:** 1 x HDMI Type A, female
- **Video Output:** 1 x LAN RJ45 connector, 1 x SFP connector, 1 x HDMI Type A, female
- **Audio Input:** 1 x 5-pin Phoenix connector
- **Audio Output:** 1 x 5-pin Phoenix connector, 1 x Optical (S/PDIF)
- **Ethernet Port:** 1 x LAN RJ45 connector
- **Fibre Port:** 1 x SFP connector (fibre module not supplied)
- **RS-232 Serial Port:** 1 x 3-Pin Phoenix connector
- **USB/KVM Port:** 1 x USB2.0-type B for KVM
- **IR Input:** 1 x 3.5mm stereo jack
- **IR Output:** 1 x 3.5mm mono jack

Specifications

- **Dimensions (W x D x H):** 190mm x 128mm x 25mm
- **Unit Weight:** 0.75kg
- **Packaging Dimensions (W x D x H):** 260mm x 180mm x 55mm
- **Shipping Weight:** 1.0kg
- **Power Consumption:** 8W (max)
- **Operating Temperature:** 32°F to 104°F (0°C to 40°C)
- **Storage Temperature :** -4°F to 140°F (-20°C to 60°C)
- **Power Supply:** Class 3 IEEE 802.3af POE PD or 24V 1A DC PSU

Included Accessories

IR Accessories	1 x IRR IR Receiver 1 x IRE1 IR Emitter
Audio Accessories	2 x 5-pin Phoenix
Serial Accessories	1 x 3-pin Phoenix
Mount	1 x Mounting Kit

Regulatory Compliance



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4K 60Hz 4:4:4 Video over 1Gb Network - Receiver

Description

The Blustream IP300 series Video over IP distribution platform allows virtually latency free (1 frame) distribution of 4K 18Gbps HDMI video over a 1Gb managed network.

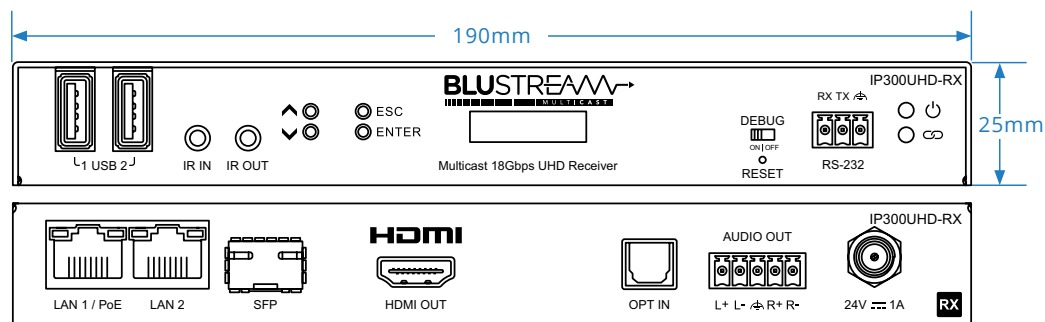
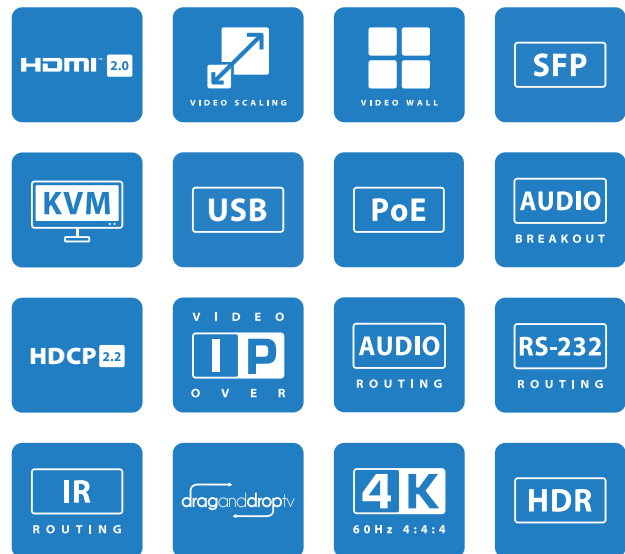
Featuring full interoperability with the IP350UHD product line, the IP300UHD-RX is an industry leading 4K HDMI receiver that, using visually lossless compression technology, delivers 18Gbps HDMI, HDCP2.2, audio, bi-directional IR, RS-232 & USB/KVM up to lengths of 100m over standard copper network architecture, or greater distances using the in-built fibre SFP network interface.

The IP300UHD-RX features a second RJ45 LAN port for daisy chaining the HDMI signal onto further IP300UHD-RX units.

With a full 18Gbps HDMI scaling chipset on-board, the HDMI output can be adjusted to lower resolutions where legacy displays are required in the same system as full 4K. The scaling capabilities of this unit also allow for videowalls to be created where needed.

The unit can be powered via PoE from the network switch, or locally should the switch not support PoE.

With multiple configuration options available, the flexibility of the Blustream Multicast video over IP solution makes this platform ideal for multiple installation types.



Key Features

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- Virtually unlimited system size
- Extends HDMI up to a distance of 100m over a single CAT cable
- SFP port for signal distribution over fibre
- Supports up to 4K UHD 60Hz 4:4:4
- AES-256 encryption of video signals across network
- Supports bitstream passthrough of multichannel surround sound including object-based audio formats in line with HDMI specifications.
- Advanced signal management for independent routing of IR, RS-232, USB/KVM, audio and video
- PoE (Power over Ethernet) to power Blustream unit from PoE switch
- HDCP 2.2 compliant with full 18Gbps scaling capabilities for inclusion of non-4K / legacy displays whilst distributing 4K to other parts of the system
- Analogue L/R audio output support both balanced and unbalanced audio signals
- HDMI ARC, eARC or optical audio return from display to an IP300UHD or IP350UHD transmitter
- LAN loop-out for one-to-many extender mode
- OLED front panel display for advanced system information and manual configuration
- Optional 24V power supply (should Ethernet switch not support PoE)
- Compatible with Blustream IP300UHD-TX, IP300UHD-WP-TX, and IP350UHD-TX/RX products
- IP300UHD/IP350UHD Multicast platform features 4 operational modes:
 - Matrix distribution (requires 1Gb network switch)
 - Video wall (requires 1Gb network switch)
 - One-to-one HDMI extender (no network switch required)
 - One-to-many HDMI extender (no network switch required)

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Connectivity

- **Video Input Connectors:** 1 x LAN RJ45 connector, 1 x SFP connector
- **Video Output Connectors:** 1 x HDMI Type A, female, 1 x LAN RJ45 connector
- **Audio Input:** 1 x Optical (S/PDIF)
- **Audio Output:** 1 x 5-pin Phoenix connector
- **Ethernet Port:** 2 x LAN RJ45 connector
- **Fibre Port:** 1 x SFP connector (fibre module not supplied)
- **RS-232 Serial Port:** 1 x 3-Pin Phoenix connector
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Audio Accessories	1 x 5-pin Phoenix
Serial Accessories	1 x 3-pin Phoenix
Mount	1 x Mounting Kit

Regulatory Compliance



CAN ICES-003(B) / NMB-003(B)

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