IP350UHD-TX

BLUSTREAM

IP Multicast HDMI2.0 Video Transmitter with Dante®
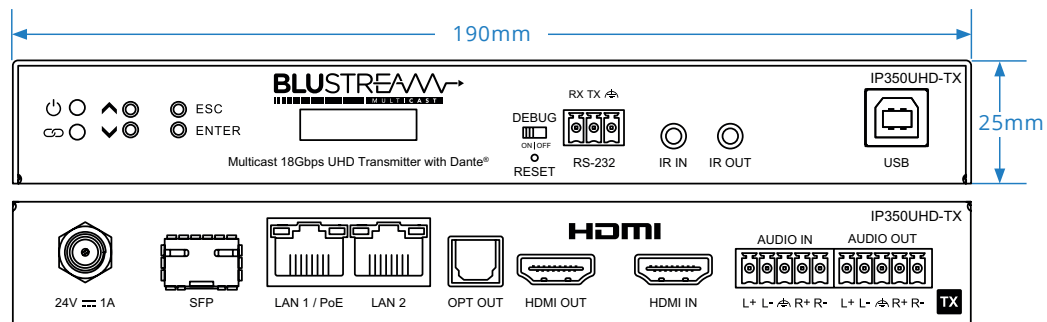
Description

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

Featuring full interoperability with the IP300UHD product line, the IP350UHD-TX is an industry leading Dante enabled 4K HDCP 2.2 HDMI transmitter that, using visually lossless compression technology, delivers 18Gbps HDMI, Dante & AES67 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 IP350UHD-TX can support both video and Dante audio distribution from a single network. A second RJ45 connection allows for the Dante audio network interface to be segregated from the video over IP network if required.

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.

Feature icons: HDMI 2.0 | SFP | BI-DIRECTIONAL CONTROL | RS-232 | USB | KVM | PoE | AUDIO BREAKOUT | HDCP 2.2 | VIDEO OVER IP | AUDIO ROUTING | RS-232 ROUTING | IR ROUTING | draganddroptv | Dante® | AES67

Front panel (190mm wide, 25mm high): BLUSTREAM MULTICAST — Multicast 18Gbps UHD Transmitter with Dante® — ESC, ENTER — RX TX — DEBUG ON|OFF, RESET — RS-232 — IR IN — IR OUT — USB — IP350UHD-TX

Rear panel: 24V ⎓ 1A — SFP — LAN 1 / PoE — LAN 2 — OPT OUT — HDMI OUT — HDMI IN — AUDIO IN (L+ L- ⏚ R+ R-) — AUDIO OUT (L+ L- ⏚ R+ R-) — TX — IP350UHD-TX

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
- Supports HDR including Dolby Vision LLM
- Dual RJ45 network ports configurable for independent or combined HDMI and Dante signal distribution
- SFP port for independent or combined HDMI and Dante signal distribution over a single fibre cable
- In-built 2ch Dante transmitter for breakout of audio from HDMI source or local analogue audio input
- In-built 2ch Dante receiver for embedding of audio onto the HDMI signal or breakout to local analogue audio output
- HDMI ARC, eARC or optical audio return from a display connected to an IP300UHD or IP350UHD receiver
- Supports all known HDMI audio formats including Dolby Atmos, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission

- 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
- Balanced/unbalanced analogue L/R audio embedding
- Audio breakout to analogue L/R audio, supporting both balanced and unbalanced audio signals
- 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 and IP350UHD-TX/RX products
- IP300/350 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)

BLUSTREAM | SDVoE ALLIANCE | HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE | HDBaseT | Dante | Dolby | dts

Connectivity

- **Video Input:** 1 x HDMI Type A, female
- **Video Output:** 1 x LAN RJ45 connector (LAN1/PoE), 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)
- **Dante Port:** 1 x LAN RJ45 connector (LAN2)
- **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:** 12W (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

CE   UKCA   FC   RoHS Compliant

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

BLUSTREA/W→   SDVoE ALLIANCE   HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE   HDBT   Dante   Dolby   dts

IP350UHD-RX

IP Multicast HDMI2.0 Video Receiver with Dante®

Description

The Blustream IP300 series Multicast distribution platform allows virtually latency free (1 frame) distribution of 4K HDMI video over a 1Gb managed network.
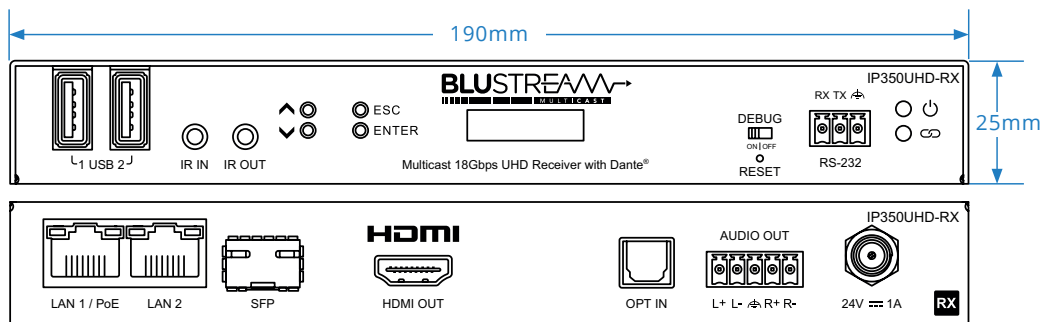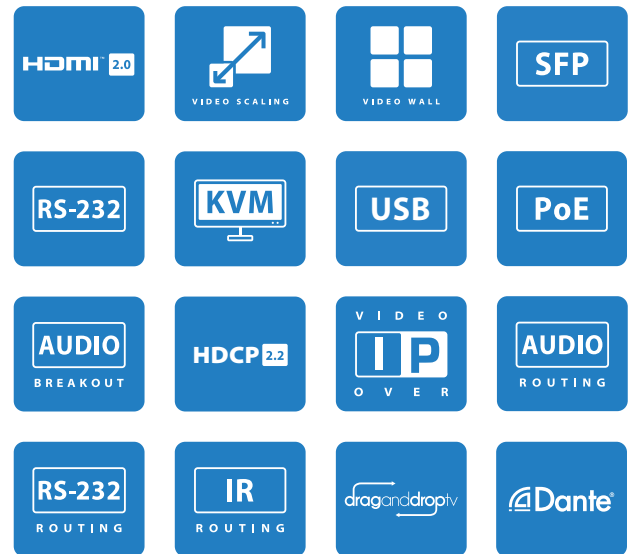
Featuring full interoperability with the IP300UHD product line, the IP350UHD-RX is an industry leading Dante enabled 4K HDCP 2.2 HDMI receiver that, using visually lossless compression technology, delivers 18Gbps HDMI, Dante & AES67 audio, bi-directional IR, RS-232 & USB/KVM up to lengths of 100m over standard copper network architecture, or greater distances using the in-built fibre SFP network interface.

The IP350UHD-RX can support both video and Dante audio distribution from a single network. A second RJ45 connection allows for the Dante audio network interface to be segregated from the video over IP network if required.

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.

Icons: HDMI 2.0 | VIDEO SCALING | VIDEO WALL | SFP | RS-232 | KVM | USB | PoE | AUDIO BREAKOUT | HDCP 2.2 | VIDEO OVER IP | AUDIO ROUTING | RS-232 ROUTING | IR ROUTING | draganddrop tv | Dante®

Panel diagram:
190mm / 25mm

BLUSTREAM→ MULTICAST — Multicast 18Gbps UHD Receiver with Dante®
1 USB 2 | IR IN | IR OUT | ESC | ENTER | DEBUG ON|OFF RESET | RS-232 | RX TX | IP350UHD-RX

LAN 1 / PoE | LAN 2 | SFP | HDMI OUT | OPT IN | AUDIO OUT L+ L- R+ R- | 24V ⎓ 1A | RX | IP350UHD-RX

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
- Supports up to 4K UHD 60Hz 4:4:4
- Supports HDR including Dolby Vision LLM
- Supports all known HDMI audio formats including Dolby Atmos, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission
- Extends HDMI and Dante up to a distance of 100m over a single CAT cable
- Dual RJ45 network ports configurable for independent or combined HDMI and Dante signal distribution
- SFP port for independent or combined HDMI and Dante signal distribution over a single fibre cable
- 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 supports both balanced and unbalanced audio signals
- HDMI ARC, eARC or optical audio return from display to an IP300UHD or IP350UHD transmitter
- Optical (S/PDIF) input for 2ch optical audio return that can be fed into Dante network
- 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 and IP350UHD-TX/RX products
- 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)

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 5-pin Phoenix connector
- **Audio Output Connectors:** 1 x 5-pin Optical (S/PDIF) connector
- **Dante Port:** 1 x LAN RJ45 connector (LAN2)
- **Fibre Port:** 1 x SFP connector (fibre module not supplied)
- **RS-232 Serial Port:** 1 x 3-Pin Phoenix connector
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Blustream cannot be held responsible for errors in typography or photography. Specifications are subject to change without notice.