IO-H1 Gateway

AVoIP transcoder using IPMX/2110 open standards



- **Less equipment and maintenance**
- **Interoperability and flexibility thanks to standards-based workflows**
- **High quality at low latency**

Barco IO-H1

The Barco IO transcoders are the base of a simplified future-proof AVoIP setup transporting your current HDMI™ signals (up to 4K60 4:4:4) into an open standards based system with the lowest latency.

Reduce the need for additional switchers, cables, converters, etc. and just add the IO solution to convert and route from a single bi-directional cable solution containing multiple AV signals and control. It minimizes clutter and costs.

The Barco IO encoder/decoder is a network-based system which can accommodate a very large number of devices and operates on open standards making A/V integration much more accessible, more flexible and easier to maintain.

Each Barco IO-H1 package includes:

- IO-H1 1GbE over Cat5 encoder/decoder
- JPegXS
- Power supply
- Quick Mount™ Plate
- Mounting Bracket

Barco Eco-label

This product has been awarded with the Barco Eco-label, reflecting its commitment to sustainability and environmental responsibility.

Product specifications	IO-H1 GATEWAY
Product features	
Form factor	Standalone appliance
Rack mounting	1RU rack-mount compatible
Operating modes	HDMI to IP Gateway IP to HDMI Gateway
Connectivity	
Video input	1x HDMI 2.0
Video output	1x HDMI 2.0
Audio	Up to 8 channels HDMI Embedded Audio Analog Audio via Stereo Line-In/Line-Out PCM audio Format
Network (interfaces)	1 / 2.5GbE RJ-45 (LAN 1 and LAN 2) 1 GbE RJ-45 Ethernet (Management Port) Redundant media networks supported
Serial control	RS-232 via Phoenix 3pin
Control & Management	
Web UI	Browser-based configuration
Device discovery	Automatic
Remote configuration	Supported
Firmware management	Supported
Monitoring & diagnostics	Real-time status and logging
Network features	
IP support	IPv4 IPv6 DHCP Static IP
Supported standrads	SMPTE ST 2110-10 SMPTE ST 2110-20 SMPTE ST 2110-21 SMPTE ST 2110-22 SMPTE ST 2110-30 SMPTE ST 2110-31 SMPTE ST 2110-40 SMPTE ST 2059-2 SMPTE 2022-7 IPMX
NMOS	IS-04 Discovery supported IS-05 Connection Management supported
Encoding & transport	
Video transport	SMPTE ST 2110 /IPMX uncompressed JEPG XS included Visually lossless compression included bitrate range: 100 Mbps -2 Gbpq
Audio transport	PCM Audio Uncompressed AES67 supported
Latency	Uncompressed: < 4 ms JPEG XS: Ultra-low latency
Redundancy	
ST 2022-7 Seamless Redundancy	Yes
Dual Network Interfaces	Yes
Redundant Power Options	Yes
Physical characteristics	
Cooling	Fanless cooling
Chassis	Industrial metal enclosure and rental bracket and mounting plate
Height	
Weight	Unit only aprox. 0.8kg
Power	
External power supply	12 VDC
Maximum consumption	20 W
PoE+	Supported
Power redundancy	Optional
Environment	
Operating conditions	Temperature: 0°C to 45°C Humidity: 20% to 80% non-condensing
Storage conditions	Temperature: -40°C to 70°C Humidity: 5% to 95% non-condensing
General Specifications	
Compliance	CE FCC RoHS REACH
Warranty	Three-year limited warranty incl. software updates and technical support

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