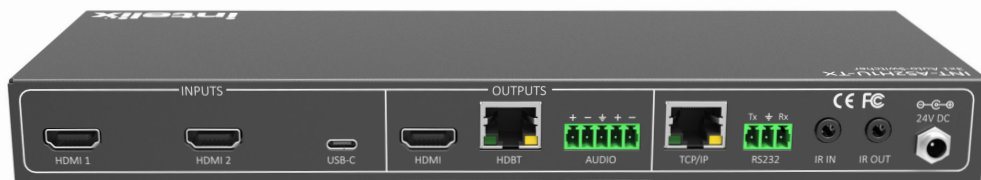




INT-AS2H1U-TX Quick Install Guide



This guide is for quick installation only.
For complete owners manual go to www.libav.com or use a QR reader to access the manual via QR code below.



Scan QR Code with your Smart-phone or Tablet

Product Overview

The Intelix INT-AS2H1U-TX is a 3x1 A/V auto switcher that features two HDMI inputs, one USB-C input, one HDMI output, one HDBaseT output and one balanced analog audio output. The USB-C input supports ALT-DP mode and can also charge a connected source device up to 40 watts. The built in HDBaseT transmitter output can transmit HDMI or USB-C audio and video, RS232 and bi-directional IR over a single solid core shielded Category cable to a compatible Intelix HDBaseT receiver up to 70 meters or 230 feet. The INT-AS2H1U-TX supports 1080p video signal up to 70m/230' and 4K signals up to 4K@60Hz / 4:2:0 / 8 bit color up to 40m/130'. The switcher supports CEC pass through and is HDCP 2.2 compliant. A built in web GUI allows easy configuration of A/V routing, EDID, display automation, network and HDCP features. 48V PoH is built in to allow the INT-AS2H1U-TX HDBaseT transmitter output to power a compatible Intelix receiver.

The switchers functions can be controlled by built in web server / GUI, RS232 or by TCP/IP. The INT-AS2H1U-TX can also manually control a connected display via CEC or RS232 or can be configured to automate the display ON/OFF whenever a video signal is introduced or absent from the switcher system.

The INT-AS2H1U-TX is compatible with all Intelix HDBaseT receivers and any HDBaseT product that is built to HDBaseT certified standards.

Package Contents

- INT-AS2H1U-TX 3x1 Auto Switcher
- Quick Install Guide
- (1) IR Receiver
- (1) IR Emitter
- (1) RS232 to DB9 breakout cable
- (1) 5-pin phoenix connector
- (2) Mounting Clips with (4) Screws
- (4) Plastic Cushions
- 24V Power Adapter with US, EU, UK and AU plug adapters.

Connectivity Instructions

1. Verify all components included with the switcher / extender set are present before installation.
2. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.
3. Connect Category 6 or greater twisted pair cable with RJ45 connectors between the INT-AS2H1U-TX HDBaseT output / transmitter to the HDBaseT input of a compatible Intelix HDBaseT receiver. TIA/EIA-568B straight-through wiring connections must be used for this connection.
4. Connect an HDMI cable that is less to or equal to 5 meters in length between the display and the HDMI output of the HDBaseT receiver.
5. Connect an HDMI cable that is less to or equal to 5 meters in length between a local display and the HDMI output of the INT-AS2H1U-TX local switcher.
6. Connect a source device to the HDMI inputs using a HDMI cable that is less than or equal to 5 meters in length
7. Connect a source device to the USB-C input using a USB-C video cable that is less than or equal to 2 meters in total length.
8. Connect RS232 control between the display to control connected display or connect to a 3rd party control system to control switcher functions (optional)
NOTE: A list of control commands for this unit is available in the owners manual online at www.libav.com under the DOCUMENTATION tab of the INT-AS2H1U-TX product page
9. Connect TCP/IP control to a 3rd party control system to control switcher functions (optional)
10. Connect IR receiver / emitter to control components via HDBaseT receiver (optional)
11. Set switch mode on front panel of INT-AS2H1U-TX for either manual or auto switching
12. Connect the included power supply to the INT-AS2H1U-TX and lock the power supply to the power connector by twisting the locking collar clockwise.
13. Power on attached audio/video devices

Passing IR Signals:

The INT-AS2H1U-TX is capable of passing IR signals between 30 and 50 KHz. To prevent damage to any of the electronics, the extender should be powered off while inserting or removing any IR components. Inserting an IR transmitter into the IR IN port may damage the IR circuit for that extender.

Cabling Wiring Requirements

HDBaseT Cabling

To ensure proper performance of the INT-AS2H1U-TX, it is recommended that you use solid core, shielded Category 6 F/UTP cabling at a minimum. Category 5e F/UTP may perform well but may not support power over HDBaseT reliably over longer distances.



When using shielded category cabling *ALWAYS*...

-use shielded connectors
-properly ground the category cable

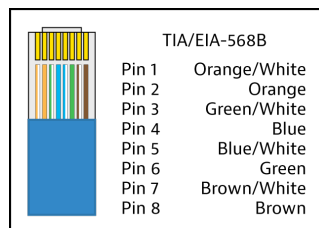
For optimized HDBaseT performance use the following Liberty Wire and Cable branded cabling;

Category 6 plenum; **24-4P-P-L6SH**

Category 6A plenum; **24-4P-P-L6ASH**

Category 6 NON-plenum; **24-4P-L6SH**

Category 6A NON-plenum; **24-4P-L6ASH**

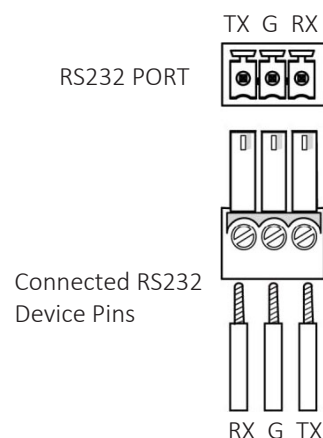


Twisted Pair Wiring

Use TIA/EIA-568B wiring for Category 6 connection between send and receive units.

RS232 Wiring

Connect a display or control system to the RS232 terminal connector using low capacitance 2 conductor / shielded cabled. Consult the manual of the control device(s) to determine which pins the TX/RX signals are carried on. Be sure to always connect TX to RX and RX to TX from the connected device to the INT-AS2H1U-TX switcher system .



Technical Specifications

Video	
Video Inputs	(2) HDMI, (1) USB-C
Video Input Connectors	(2) HDMI Type A Female, (1) USB-C 3.0
Input video Signal	HDMI for HDMI input, ALT-DP Mode for USB-C
HDMI Input Resolution Support	Up to 4Kx2K@60Hz 4:2:0 / 8 bit deep color
USB C Input Resolution Support	Up to 4Kx2K@30Hz 4:2:0 / 8 bit deep color
Video Output	(1) HDMI, (1) HDBaseT (mirrored)
Video Output Connector	(1) Type-A Female HDMI, (1) RJ45
Output Resolution Support	Up to 3840 x 2160 @60Hz / 4:2:0 / 8 bit deep color
Standards	HDMI 2.0, HDCP 2.2 and CEC
System Bandwidth	10.2Gbps
Control	
Control Ports	(1) RS232, (1) IR IN, (1) IR OUT, (1) TCP/IP, (1) Firmware
Control Connectors	(1) 3-pin terminal blocks, (2) 3.5mm jacks, (1) RJ45, (1) Micro USB
IR Carrier Frequency Range	33-55kHz at 5 volts
HDBaseT Signal Characteristics	
Maximum Distance	70 m (up to 1080p) , 40 m (up to 4K@60Hz / 4:2:0 / 8 bit deep color)
Cable Requirements	Solid core shielded Category 6 F/UTP cable or greater with TIA/EIA-568B crimp pattern
Chassis and Environmental	
Dimensions (WxHxD)	269 mm x 30 mm x 100 mm (10.6 in x 1.2 in x 4 in)
Shipping Weight	465g (1 lbs.)
Operating Temperature	0° to +55° C (+32° to +131° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 90%, Non-condensing
Power, ESD, and Regulatory	
Power Supply Input	100V-240VAC / 50-60 Hz
Power Supply Output	24VDC / 4A
Power Consumption	80 watts (max)
ESD Protection	15kV
Product Regulatory	FCC, CE, RoHS
Power Supply Regulatory	CE, RoHS
Other	
Standard Warranty	5 years
Included Accessories	Quick Install Guide, (1) 5-pin Phoenix connectors, (1) IR Emitter, (1) IR Receiver, (1) RS232 to DB9 breakout cable, (1) DC24V 4A power adapter with US, EU, UK and AU power plug, (2) Rack mount ears with 4 mounting screws, (4) Plastic Cushions
Compatible Receivers	INT-HD70-RX, INT-HDX100-RX (up to 70m), INT-HDX100-RXWP (up to 70m) and INT-BSR4K-H2 (receiver must be powered locally).

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

Thank you for your purchase.

For Technical Support please call our toll free number at
800-530-8998 or email us at supportlibav@libav.com

www.libav.com

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