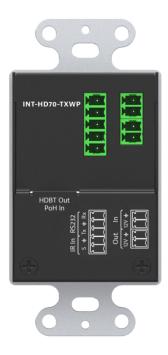


INT-HD70-TXWP Owners Manual





Phone: 719-260-0061

Fax: 719-260-0075

Toll-Free: 800-530-8998

Important Safety Instructions

- » Please completely read and verify you understand all instructions in this manual before operating this equipment.
- » Keep these instructions in a safe, accessible place for future reference.
- » Heed all warnings.
- » Follow all instructions.
- » Do not use this apparatus near water.
- » Clean only with a dry cloth.
- » Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- » Use only accessories specified or recommended by Intelix.
- » Explanation of graphical symbols:
 - Lightning bolt/flash symbol: the lightning bolt/flash and arrowhead within an equilateral triangle symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure which may be of sufficient magnitude to constitute a risk of shock to a person or persons.



Exclamation point symbol: the exclamation point within an equilateral triangle symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



- » WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.
- » Use the mains plug to disconnect the apparatus from the mains.
- » THE MAINS PLUG OF THE POWER CORD MUST REMAIN READILY ACCESSIBLE.
- » Do not defeat the safety purpose polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of your obsolete outlet. Caution! To reduce the risk of electrical shock, grounding of the center pin of this plug must be maintained.
- » Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and the point where they exit from the apparatus.
- » Do not block the air ventilation openings. Only mount the equipment per Intelix's instructions.
- » Use only with the cart, stand, table, or rack specified by Intelix or sold with the equipment. When/if a cart is used, use caution when moving the cart/equipment combination to avoid injury from tip-over.



- » Unplug this apparatus during lightning storms or when unused for long periods of time.
- » Caution! Shock Hazard. Do not open the unit.
- » Refer to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Table of Contents

Product Overview	4
Product OverviewProduct Contents	4
Transmitter View	
Front and Back Panel	5
Installation Instructions	6
Quick Start	6
Connecting a Video Source	6
HDMI Input (Transmitter)	6
Connecting a Display	6
HDMI Output (Receiver not included)	
HDBaseT Connection	
Connecting RS232 Control	7
Connecting IR Control	8
Device Control using IR	
Device Control from Control System	8
Apply Power	8
Application Diagrams	9
HDMI Extension / IR Control	9
HDMI Extension / RS232 Control	
Technical Specifications	11



Product Overview

The Intelix INT-HD70-TXWP extends HDMI, IR, and RS232 over a single solid core shielded Category 5e or greater cable using the Valens VS010TX HDBaseT chip. The INT-HD70-TXWP supports 1080p video signal up to 70m and 4K signals up to 4K@60Hz / 4:2:0 / 8 bit color up to 40m. The INT-HD70-TXWP supports CEC pass through and is HDCP 2.2 compliant. 48V PoH built in allows the transmitter to be powered from a compatible Intelix receiver, the transmitter also has 12V DC output for powering 3rd party device nearby.

The INT-HD70-TXWP is compatible with all Intelix HDBaseT product offerings and any product that meets the HDBaseT specifications.

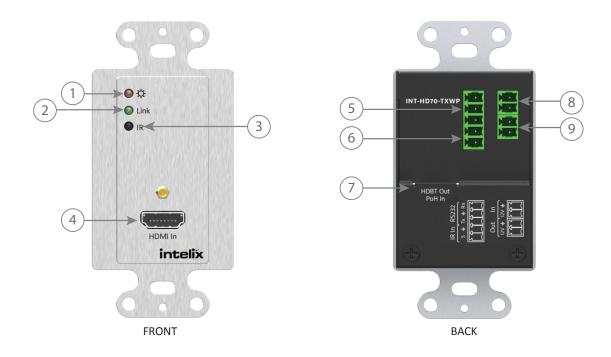
Product Contents

- INT-HD70-TXWP HDBaseT Wall Plate Transmitter
- Quick Install Guide
- (3) 2 pin Phoenix connector
- (1) 3 pin Phoenix connector
- (2) Mounting Screws



Transmitter View

Front and Back Panel



- 1. POWER LED Illuminates RED when power is applied
- 2. LINK LED Illuminates GREEN when the transmitter is connected to receiver successfully
- **3. IR** Built in IR sensor / receiver for IR pass through control
- 4. HDMI IN HDMI input port for connection to HDMI video source
- **5. RS232** 3 pin terminal block for RS232 pass through control
- **6. IR IN** 2 pin terminal block for 3rd party IR controller or receiver
- 7. HDBT OUT / POH IN HDBaseT output; RJ45 connection. Supports 48V PoH
- **8. DC IN** 2 pin terminal to connect 12V DC power adapter.
- 9. DC OUT 2-pin terminal block to connect / power 3rd party device

Installation Instructions

Quick Start

- 1. Connect video source to transmitter HDMI IN
- 2. Connect display technology to receiver (not included) HDMI OUT
- 3. Connect transmitter and receiver together with a shielded Category 6 cable
- 4. Connect control (optional)
- 5. Apply power to receiver to power entire circuit

Connecting a Video Source

HDMI Input (Transmitter)

Connect an HDMI source device to the HDMI input on the INT-HD70-TXWP transmitter using an HDMI cable that is less than or equal to 5 meters in total length for 1080p signals and 1.5 meters for 4K@60 signals.

Connecting a Display

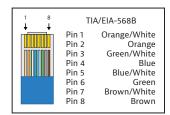
HDMI Output (Receiver not included)

Connect a display to the HDMI output on a compatible Intelix receiver (not included) labeled *HDMI OUT* using an HDMI cable that is less than or equal to 5 meters total length for 1080p signals and 1.5 meters for 4K@60 signals. It is recommended to keep the HDBaseT receiver near the display input as it is not recommended that an active HDMI cable be used on the HDMI output on the HDBaseT receiver.



HDBaseT Connection

Connect one end of a Category cable to the INT-HD70-TXWP transmitter labeled *HDBT OUT*, then connect the other end of the Category cable to a compatible HDBaseT Intelix receiver labeled *HDBT IN*



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

To ensure proper performance of the INT-HD70-TXWP, it is recommended that you use solid core, shielded Category 6 F/UTP cabling at a minimum. Category 5e F/UTP may perform well up to a certain length but may not support power over HDBaseT reliably longer distances.



When using shielded category cabling ALWAYS...

-use shielded connectors
-properly ground the category cable

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

Category 6 plenum; 24-4P-P-L6SH Category 6A plenum; 24-4P-P-L6ASH

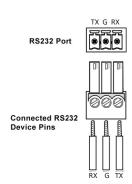
Category 6 NON-plenum; 24-4P-L6SH Category 6A NON-plenum; 24-4P-L6ASH

Connecting RS232 Control

RS232 control signals can be transmitted through the INT-HD70-TXWP to a compatible HDBaseT Intelix reciever using the RS232 connection port on the back of the wall plate transmitter

RS232 Wiring

Connect the controller or device RX signal to TX on the INT-HD70-TXWP extender.
Connect the controller or device TX signal to RX on the INT-HD70-TXWP extender.





Connecting IR Control

The INT-HD70-TXWP is capable of transmitting a uni-directional IR signal through the HDBaseT circuit. The INT-HD70-TXWP features a built in IR receiver on the front panel of the wall plate so an IR receiver is not required. An IR receiver (Intelix DIGIB-EYE sold seperately) can be connected to the IR IN on the back of the wall plate to transmit IR signals to a compatible Intelix HDBaseT receiver. When using the IR function in this manner, power will need to be provided as there is no power pin provided for the IR receiver on the INT-HD70-TXWP.



Passing IR Signals:

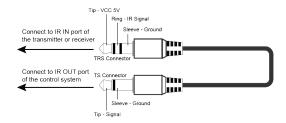
The INT-HD70-TXWP is capable of passing IR signals between 33 and 55 KHz. To prevent damage to any of the electronics, the extenders should be powered off while inserting or removing any IR components. Inserting an IR receiver into the IR IN port may damage the IR circuit for that extender.

Device Control using IR

Point the device IR remote at the front of the INT-HD70-TXWP wall plate where the IR receiver is located, IR signals will now travel through HDBaseT to a complatibe HDBaseT Intelix receiver where the IR emitter is attached to the electronic / IR controllable device.

Device Control from Control System

To pass 3rd party IR system signals through the INT-HD70-TXWP, such as a control system, connect the TS connector of the IR-AC coupling cable (purchased seperately) to the IR output port of the control system and connect the TRS connector of the IR-AC cable to the IR IN port of the INT-HD70-TXWP.



Apply Power

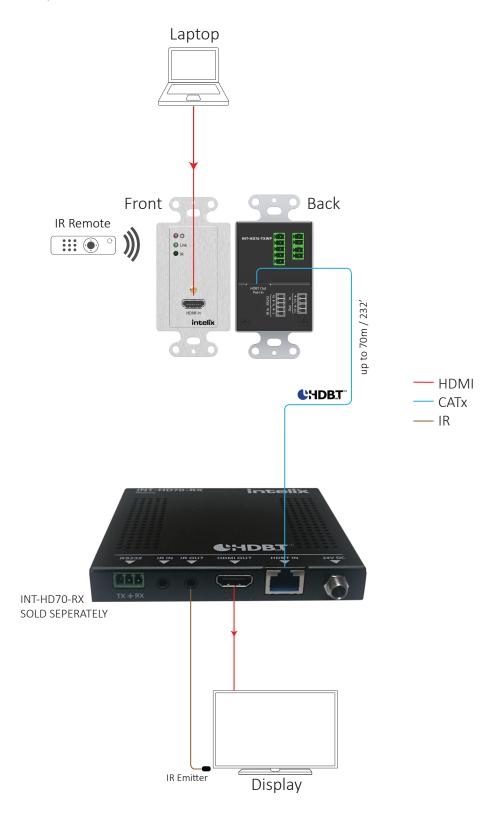
Connect the included power supply to the Intelix HDBaseT receiver and lock the power supply to the power connector by twisting the locking collar clockwise. It is not required that both the transmitter and receiver be powered simultaneously.

NOTE: You can power the INT-HD70-TXWP with an external power supply to power the wall plate locally as well as supplying power to a 3rd party device using the 12V OUT phoenix connector on the INT-HD70-TXWP. This requires a 12V/2A DC power supply connected to the 12V IN of the INT-HD70-TXWP and will pass through 12V/500mA to 3rd party device.

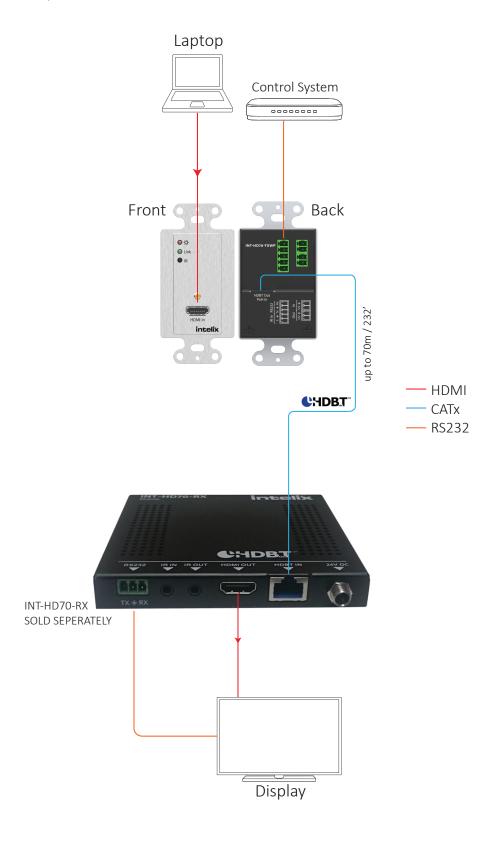


Application Diagrams

HDMI Extension / IR Control



HDMI Extension / RS232 Control



Technical Specifications

Supported Audio and Video		
Video Compliance	HDMI 2.0+, HDCP2.2, and CEC (Consumer Electronics Control)	
Input / Output Resolution Support	Up to 4096x2160@60Hz (4:2:0 chroma sub-sampling / 8 bit deep color)	
Embedded Audio	Up to PCM 8 channel, Dolby Digital, DTS, TrueHD, DTS-HD Master Audio and Dolby Atmos	
IR Carrier Frequency Range	30-50kHz at 5 volts	
HDBaseT Signal Characteristics		
Maximum Distance	1080p: 70 meters / 231 feet 4K@60Hz 4:2:0 40 meters / 132 feet	
Cable Requirements	Solid core shielded Category 6 F/UTP or greater with TIA/EIA-568B crimp pattern	
Bandwidth	10.2 Gbps	
Chassis and Environmental		
Dimensions (H x W x D)	103 mm x 50 mm x 50 mm (4.07 in x 1.9 in x 1.9 in)	
Product Weight	180g / 0.39lbs	
Operating Temperature	-5° to +55° C (+23° to +131° F)	
Storage Temperature	-20°C to 70°C (-4°F to 158°F)	
Operating Humidity (Environment)	10% to 90%, Non-condensing	
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) ±4kV (Contact discharge	
Surge Protection	Voltage: ±1 kV	
Power		
Maximum Power Consumption	9 watts	
Input Voltage	100-240V AC at 50-60 Hz	
Output Voltage Required	12V DC @2A	
12V Pass Through	12V DC @500mA	
Regulatory	CE, FCC, RoHS	
Other		
Standard Warranty	5 Years	
Included Items	Quick Guide, (3) 2 pin Phoenix connectors, (1) 3 pin Phoenix connector, (2) Mounting screws	

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

Intelix is a brand of:

