



# INT-HDX100-RXWP Owners Manual



## 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.



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## Product Overview

The Intelix INT-HDX100-RXWP receives HDMI, IR, Ethernet and RS232 over a single solid core shielded Category cable. The INT-HDX100-RXWP supports 1080p video signal up to 100m and 4K signals up to 4K@60Hz / 4:2:0 / 8 bit color up to 70m. The INT-HDX100-RXWP supports CEC pass through and is HDCP 2.2 compliant. 48V PoH built in allows the receiver to be powered from a compatible Intelix transmitter.

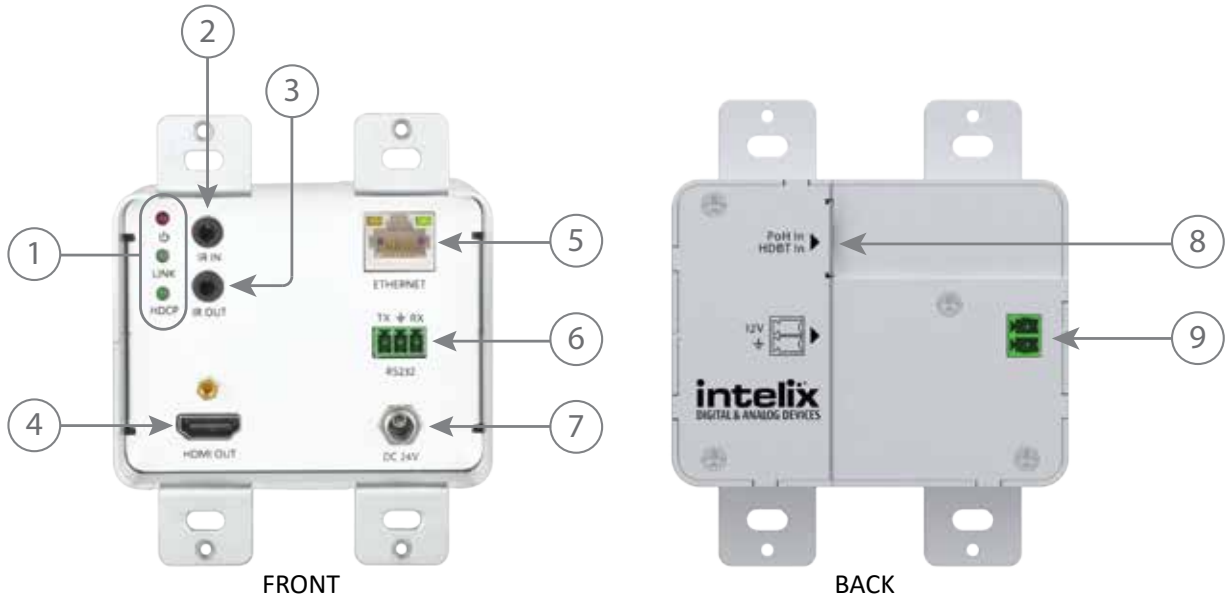
The INT-HDX100-RXWP is compatible with all Intelix HDBaseT product offerings and any product that meets the HDBaseT specifications.

## Product Contents

- INT-HDX100-RXWP HDBaseT Wall Plate Transmitter
- Quick Install Guide
- 2 gang decorator plate cover
- RS232 to DB9 breakout cable
- 2-pin phoenix connector
- (4) Mounting Screws
- 24V DC Power supply with US, EU, UK and AU power adapters.

# Receiver View

## Front and Back Panel



### 1. DIAGNOSTIC LED'S

**POWER (RED)** - Solid when device is powered ON

**LINK (GREEN)** - Solid when successful link between transmitter and receiver is established; off or blinking indicates a physical link error

**HDCP (GREEN)** - Solid when HDMI signal is encrypted; blinking when non-HDCP protected content is transmitted; OFF when no content is being transmitted

2. **IR IN** -3.5mm connection for IR receiver
3. **IR OUT** -3.5mm connection for IR emitter
4. **HDMI OUT** - HDMI output port for connection to HDMI display
5. **ETHERNET** - RJ45 port for passing Ethernet to receiver / display location from transmitter / source location
6. **RS232** - 3 pin terminal block for RS232 pass through control of connected display or 3rd party device
7. **DC24V** - DC connector for power supply
8. **HDBT IN / POH IN** - HDBaseT input; RJ45 connection. Supports 48V PoH
9. **DC12V** - 2-pin terminal block for external power supply

# Installation Instructions

## *Quick Start*

1. Connect video source to transmitter (not included) HDMI IN
2. Connect display technology to receiver 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 not included)*

Connect an HDMI source device to the HDMI input on a compatible 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.

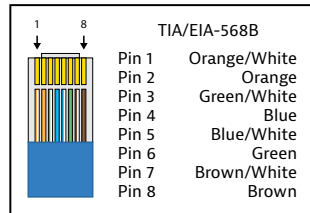
## *Connecting a Display*

### *HDMI Output (Receiver)*

Connect a display to the HDMI output on the INT-HDX100-RXWP 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-HDX100-RXWP receiver labeled *HDBT IN*, then connect the other end of the Category cable to a compatible HDBaseT Intelix transmitter labeled *HDBT OUT*



#### Twisted Pair Wiring

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

To ensure proper performance of the INT-HDX100-RXWP, 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

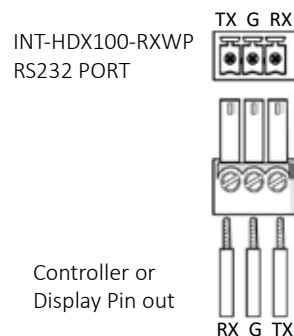
- Category 6 NON-plenum; 24-4P-L6SH
- Category 6A NON-plenum; 24-4P-L6ASH

### Connecting RS232 Control

RS232 control signals can be transmitted through the INT-HDX100-RXWP from/to a compatible HDBaseT Intelix transmitter using the RS232 connection port on the back of the wall plate receiver

#### RS232 Wiring

Connect the controller or device RX signal to TX on the INT-HDX100-RXWP extender.  
 Connect the controller or device TX signal to RX on the INT-HDX100-RXWP extender.



### Connecting IR Control

The INT-HDX100-RXWP is capable of transmitting a bi-direction IR signals through the HDBaseT circuit. An IR emitter (Intelix DIGIB-EMT sold separately) can be connected to the IR OUT on the back of the wall plate to transmit IR signals from a compatible Intelix HDBaseT transmitter. An IR receiver (Intelix DIGIB-EYE sold separately) can also be connected to the IR IN on the back of the wall plate to transmit IR signals to a compatible Intelix HDBaseT transmitter.

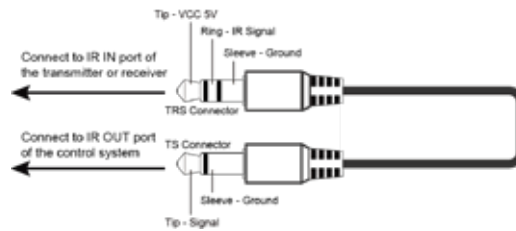


#### Passing IR Signals:

The INT-HDX100-RXWP 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.

### Device Control from Control System

To pass 3rd party IR system signals through the INT-HDX100-RXWP, such as a control system, connect the TS connector of the IR-AC coupling cable (purchased separately) 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-HDX100-RXWP.



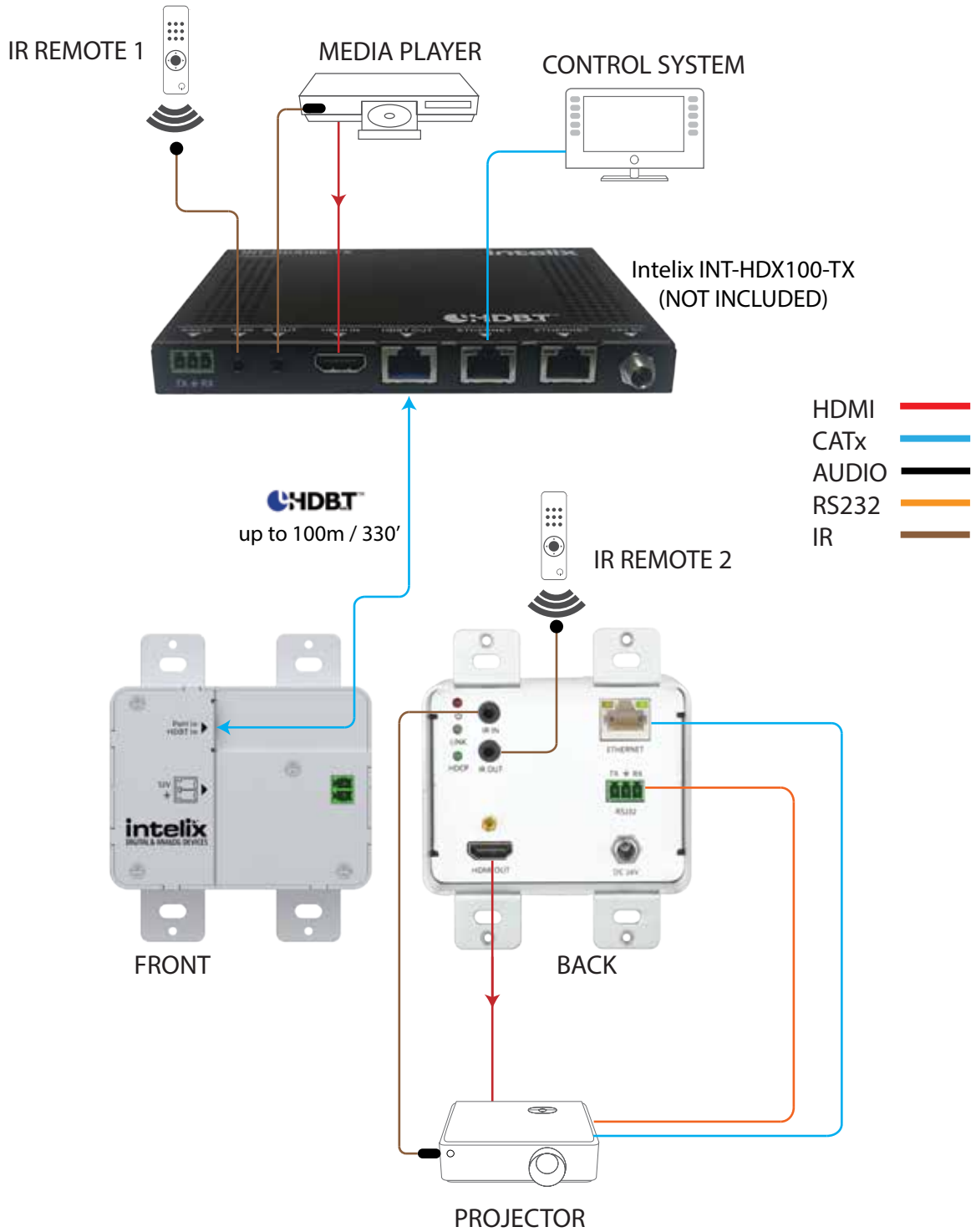
### Apply Power

Connect the included power supply to the Intelix HDBaseT transmitter or receiver and lock the power supply to the power connector by twisting the locking collar clockwise.

**NOTE:** Only Intelix transmitters with 24V power supplies can supply power to the INT-HDX100-RXWP, the wall plate receiver cannot be powered by Intelix wall plate transmitters with 12V power. When using Intelix wall plate transmitters you must power both transmitter and receiver (INT-HDX100-RXWP) to operate normally.



# Application Diagram



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](mailto:supportlibav@libav.com)

[www.libav.com](http://www.libav.com)

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