

# 4K60Hz HDBaseT 3.0 Receiver with USB Device Inputs, Audio De-embed & PoH

## RX3-100



## Quickstart Guide

**!** WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.



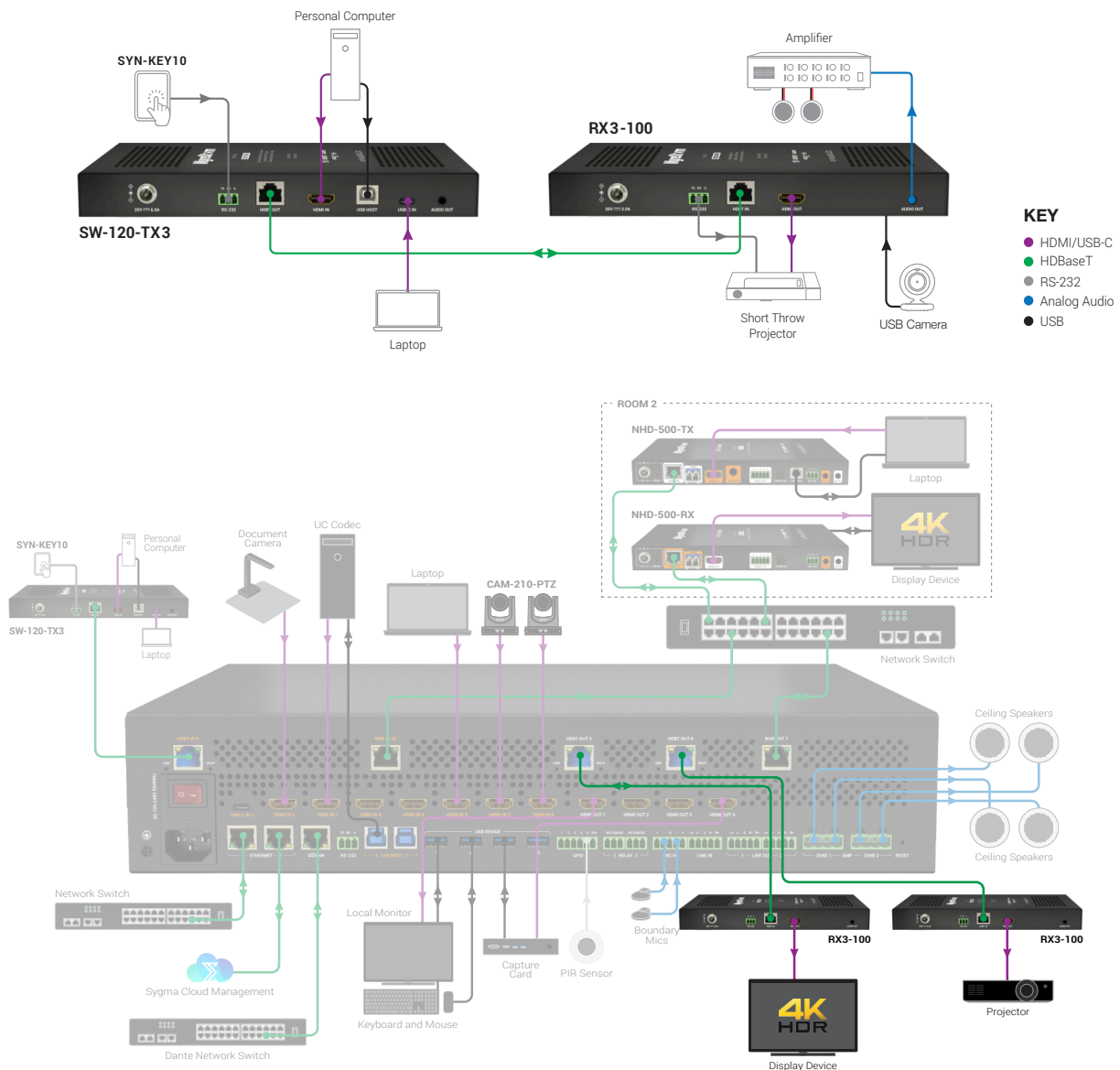
### **!** IMPORTANT! Installation Requirements

- Visit the product page to download the latest firmware, document version, additional documentation, and configuration tools.
- Read through the [Wiring and Connections](#) section for important wiring guidelines before creating or choosing premade cables.
- While this product supports CEC, WyreStorm cannot guarantee compatibility with all forms of CEC communication.

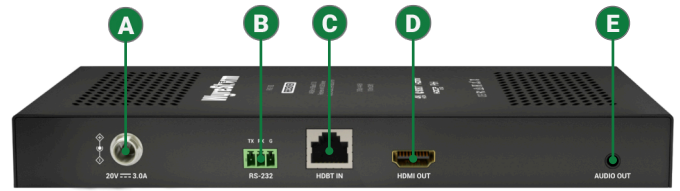
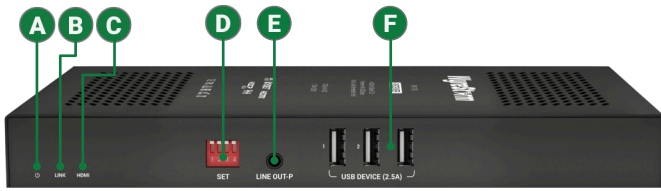
### In the Box

- 1x RX3-100 HDBaseT 3.0 Receiver
  - 1x 3-pin Terminal Block
  - 4x Wall Mounting Brackets
  - 4x Mounting Screws
  - 1x 20V 3A PSU\*
  - 1x Quickstart Guide
- \*Does not support USBC charging on TX*

## Basic Wiring Diagram



## RX3-100 (Front/Rear)



<b>A</b> Power LED	<b>Solid:</b> The unit is powered On <b>Off:</b> The unit is powered Off
<b>B</b> Link LED	<b>On:</b> Indicates link with receiving device <b>Off:</b> No link with receiver/powerd off
<b>C</b> Source LED	<b>On:</b> Indicates the video output <b>Off:</b> No video output
<b>D</b> SET Dip Switches	Adjust RS-232 function
<b>E</b> Audio Line In	3.5mm jack: 2ch analog audio input
<b>F</b> USB Device	USB Type A female Connection of USB device peripherals

<b>A</b> Power Input	20V 6A Screw Down Jack
<b>B</b> RS-232	3-pin Phoenix: Serial input for API control and 20v input
<b>C</b> HDBT Input	8-pin RJ-45 female Connect the transmitter's <b>HDBT OUT</b> to receiver's <b>HDBT IN</b> .
<b>D</b> HDMI Output	19-pin type A HDMI female Supports HDMI and DVI/D with adapter
<b>E</b> Audio Output	3.5mm jack: 2ch analog audio input

### DIP Switch Control

The four-pin DIP switch can be used to adjust RS-232 function.



Pin 2 is set to the "Up" position, RS-232 Control mode. RS-232 port is used to control the receiver and remote transmitter. In this mode, users can upgrade the receivers MCU firmware.



Pin 2 is set to the "Down" position, RS-232 HDBaseT Firmware Upgrade. Users can upgrade firmware in this mode.

Pin 1, Pin 3 and Pin 4 are reserved. The positions of these two pins will not affect IR and RS-232 function.

## Wiring and Connections


WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the switcher. Read through this section in it's entirety before running or terminating the wires to ensure proper operation and to avoid damaging equipment.

### IMPORTANT! Wiring Guidelines

- The use of patch panels, wall plates, cable extenders, kinks in cables, and electrical or environmental interference will have an adverse effect on signal transmission which may limit performance. Steps should be taken to minimize or remove these factors completely during installation for best results.
- WyreStorm recommends using pre-terminated HDMI and USB cables due to the complexity of these connector types. Using pre-terminated cables will ensure that these connections are accurate and will not interfere with the performance of the product.
- This product contains a USB-C connection that can be used as an audio/video input. When using this connection verify that the USB-C cable used supports audio/video functionality as not all USB-C cables support this requirement.

Cat6 Cable Performance Guide

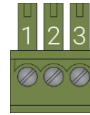
0m	10m	20m	30m	40m	50m	60m	70m	80m	90m	100m
0ft	32ft	65ft	98ft	131ft	164ft	197ft	230ft	262ft	295ft	328ft

 4K/HD Transmission

WyreStorm recommends the use of shielded cable to minimize signal noise and interference

## RS-232 Wiring

The RX3-100 uses a 3-pin RS-232 with no hardware flow control. Most control systems and computers are DTE where pin 2 is RX, this can vary from device to device. Refer to the documentation for the connected device for pin functionality to ensure that the correct connections can be made.



	WyreStorm Connector		3rd Party Device
Pin 1	TX (Transmit)	---> To --->	RX (Receive)
Pin 2	RX (Receive)	---> To --->	TX (Transmit)
Pin 3	G (Ground)	---> To --->	G (Ground)

## Troubleshooting

### No or Poor Quality Picture (snow or noisy image)

- Verify that power is being supplied to the transmitter and receiving device.
- Verify that all HDMI, USB and HDBaseT connections are not loose and are functioning properly.
- Verify that the HDBaseT cable is properly terminated following EIA568B standard.
- Verify that the output resolution of the source and display is supported by this extender.
- If transmitting 3D or 4K, verify that the HDMI cables used are 3D or 4K rated.

### No or Intermittent 3rd party Device Control

- Verify that the RS-232 cables are properly terminated following the [Wiring and Connections](#) section.

### Troubleshooting Tips:

- WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.

**Note:** WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.

## Warranty Information

WyreStorm Technologies LLC warrants that its products to be free from defects in material and workmanship under normal use for a period of five (5) years from the date of purchase. Refer to the Product Warranty page on [wyrestorm.com](http://wyrestorm.com) for more details on our limited product warranty.



