

## Product Contents

Contents within the box include the following items:

- One (1) VXP-R Receiver
- Two (2) Mounting Brackets and Screws
- One (1) 12VDC/2A Power Supply (with US, EU, UK, AU plugs)
- One (1) Phoenix Connector (3.5mm, 3 Pin)
- One (1) Phoenix Connector (3.5mm, 2 Pin)
- One (1) Reference Guide

## Safety Suggestions

**Read and Follow Instructions.** Read all safety and operating instructions before operating the unit.

**Retain Instructions.** Keep the safety and operating instructions for future reference.

**Heed Warnings.** Adhere to all warnings on the unit and in the operating instructions.

**Heat.** Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.

**Power Sources.** Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.

**Power Cord Protection.** Route power supply cords so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the cord plugs at power receptacles and at the point at which they exit from the unit.

**Water and Moisture.** Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.

**Object and Liquid Entry.** Do not allow objects to fall or liquids to be spilled into the enclosure through openings.

**Servicing.** Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.

**Damage Requiring Service.** The unit should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

## Cleaning

To clean your VXP-R, lightly dampen a lint-free cloth with plain water or a mild detergent and wipe the outer surfaces.

NOTE: Do not use harsh chemicals as damage to the unit may occur.

## Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

## Industry Canada Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s).

Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue y compris des interférences qui peuvent provoquer un fonctionnement indésirable.

## Contacting RTI

For news about the latest updates, new product information, and new accessories, please visit our web site at: **www.rticorp.com**

For general information, you can contact RTI at:

**Remote Technologies Incorporated**  
**5775 12th Ave. E Suite 180**  
**Shakopee, MN 55379**  
**Tel. (952) 253-3100**  
**Fax (952) 253-3131**  
**info@rticorp.com**

## Service & Support

If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance (see the Contacting RTI section of this guide for contact details).

RTI provides technical support by telephone or e-mail. For the highest quality service, please have the following information ready:

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

**\*Please do not return products to RTI without return authorization.\***

## Limited Warranty

RTI warrants new products for a period of three (3) years (excluding consumables such as rechargeable batteries which are warranted for one (1) year) from the date of purchase by the original purchaser (end user) directly from RTI / Pro Control (herein referred to as "RTI"), or an authorized RTI dealer.

Warranty claims may be initiated by an authorized RTI dealer using the original dated sales receipt or other proof of warranty coverage. In the absence of the receipt of purchase from the original dealer, RTI will provide warranty coverage extension of six (6) months from the date code of the product. Note: RTI warranty is limited to the provisions set forth in this policy and does not preclude any other warranties offered by third parties who are solely responsible for those other warranties.

Except as specified below, this warranty covers defects in product material and workmanship. The following are not covered by the warranty:

- Product purchased via unauthorized sellers or internet sites will not be serviced regardless of purchase date.
- Damages caused by accident, misuse, abuse, neglect or acts of God.
- Cosmetic damage, including, but not limited to, scratches, dents and normal wear and tear.
- Failure to follow instructions contained in the Product Installation Guide.
- Damages due to products used in an application or environment other than that for which it was intended, improper installation procedures or adverse environmental factors such as incorrect line voltages, improper wiring, or insufficient ventilation.
- Repair or attempted repair by anyone other than RTI and Pro Control or authorized service partners.
- Failure to perform recommended periodic maintenance.
- Causes other than product defects, including lack of skill, competence or experience of user.
- Damage due to shipment of this product (claims must be made to the carrier).
- Altered unit or altered serial number: defaced, modified or removed.

RTI Control is also not liable for:

- Damages caused by its products or for failure of its products to perform, including any labor costs, lost profits, lost savings, incidental damages, or consequential damages.
- Damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss, any claim made by a third party or made on behalf of a third party.
- Loss of, or damage to, data, computer systems or computer programs.

RTI's liability for any defective product is limited to repair or replacement of the product, at the sole discretion of RTI.

In cases where the warranty policy conflicts with local laws, the local laws will be adopted.



### DECLARATION OF CONFORMITY (DOC)

The Declaration of Conformity for this product can be found on the RTI website at: [www.rticorp.com/declaration](http://www.rticorp.com/declaration)



# VXP-R

HDBaseT Extender-Receiver

## Reference Guide



The VXP-R HDBaseT Extender receives 4K video and audio up to 90m away from the VXP-82 Presentation Switcher or VXP-T Transmitter. The receiver unit also enables pass-through control of remote devices via RS-232 and IR, and has a built-in Ethernet switch for convenient network access. The innovative device also has a USB hub, giving remote users shared keyboard and mouse control of a PC or interactive display.

### Key Features

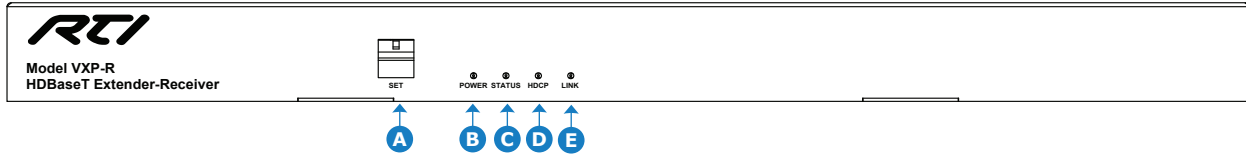
The VXP-R provides superior quality and reliability as well as these specific features:

- Support for audio, video, power, Ethernet, RS-232 and IR pass-through over HDBaseT.
- Signal transmission up to 90m/300ft for 4K and 100m/330ft for 1080p via a Cat-5e cable, and up to 100m/330ft for 4K and 1080p via a single Cat-6/6a/7 cable.
- Supports resolution up to 4K@60Hz 4:2:0 8bit and HDCP 2.2 when installed with VXP-T Transmitter.\*
- Analog stereo audio pass-through over HDBT.
- S/PDIF digital audio pass-through over HDBT.
- USB Host and Device ports with bi-directional USB pass-through for shared KVM control.
- Built-in 10/100Mb Ethernet Switch.
- One-way PoH (Power over HDBaseT) powers the VXP-R from the VXP-82 All-in-One Presentation Switcher or VXP-T Transmitter.
- Phoenix port for additional power connection.
- Support for standard and locking DC power plugs.

\*Note: Maximum resolution is 4K@30Hz when VXP-T or VXP-R are installed with VXP-82 All-in-One Presentation Switch.

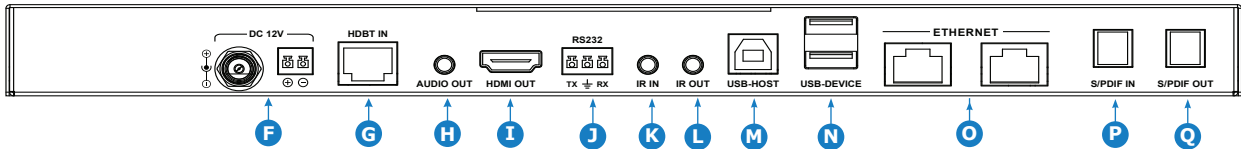
## Installation & Operation

### VXP-R FRONT PANEL DESCRIPTION



No.	Name	Function
A	Set	Enables/disables the Long Reach Mode; RS-232 updates/pass-through the device; choose USB device or USB host mode.
B	Power LED	LED is lit when the device is powered on.
C	Status LED	Flashing slowly: The transmitter is working properly Off: The transmitter is not working properly.
D	HDCP LED	On: HDCP video is being transmitted. Flashing Quickly: Non-HDCP video is being transmitted.
E	Link LED	On: HDBT link is normal. Blinking/Off: No HDBT link or link is unstable.

### VXP-R REAR PANEL DESCRIPTION



No.	Name	Function
F	DC 12V	12VDC/2A power input, threaded port for standard or locking connection, two-pin phoenix port for additional power.
G	HDBT In	Connect to HDBT Out port of VXP-82 or VXP-T Transmitter
H	Audio Out	3.5mm Analog audio stereo output, audio pass-through from Transmitter In to Receiver Out over HDBaseT.
I	HDMI Out	Connect to an HDMI display.
J	RS-232	RS-232 pass-through or firmware update mode. Use DIP switch on front of unit to configure mode.
K	IR In	Connect to IR receiver to enable to enable IR pass-through to VXP-T HDBaseT Transmitter IR Output.
L	IR Out	Connect to IR emitter to enable control devices when used as an extender with VXP-T HDBaseT Transmitter or the VXP-82 Presentation Switcher.
M	USB Host	Connect to USB Host device to be controlled such as a laptop, computer, etc.
N	USB Device	Connect to USB devices such as a mouse, keyboard, USB disk, etc.
O	Ethernet 1 & 2	Connect to Ethernet devices.
P	S/PDIF In	Connect to digital audio source output.
Q	S/PDIF Out	Connect to digital audio system input.

### FUNCTION SET DIP SWITCH

The DIP switch on front panel of VXP-T/VXP-R is capable of setting the RS-232 function, choosing USB Device or USB Host mode, and enabling/disabling the Long Reach Mode.

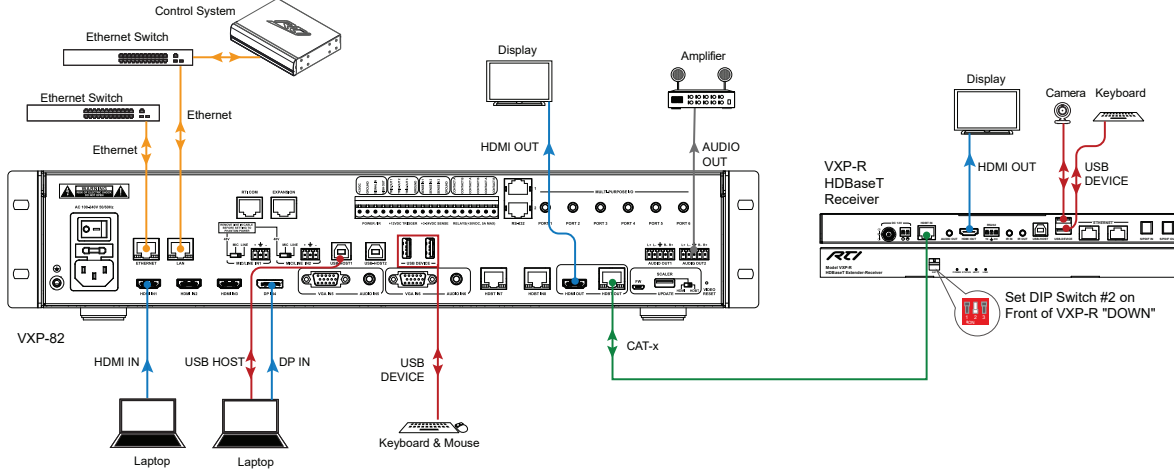
Note:

- "X" means could be any position
- VXP-T and VXP-R need to be set to "Long Reach Mode ON" and then reboot both to take effect. Only 1080p 24-bit video can be transmitted to 150m/500ft
- "Long Reach Mode" can take effect only when VXP-T and VXP-R are used as an extender.



1	2	3	Function
Up	X	X	RS-232 pass-through
Down	X	X	FW Update (Set TX and RX together)
X	Up	X	Set as USB HOST
X	Down	X	Set as USB DEVICE
X	X	Up	Long Reach Mode OFF
X	X	Down	Long Reach Mode ON (Use as Extender)

## VXP-R Installed with VXP-82

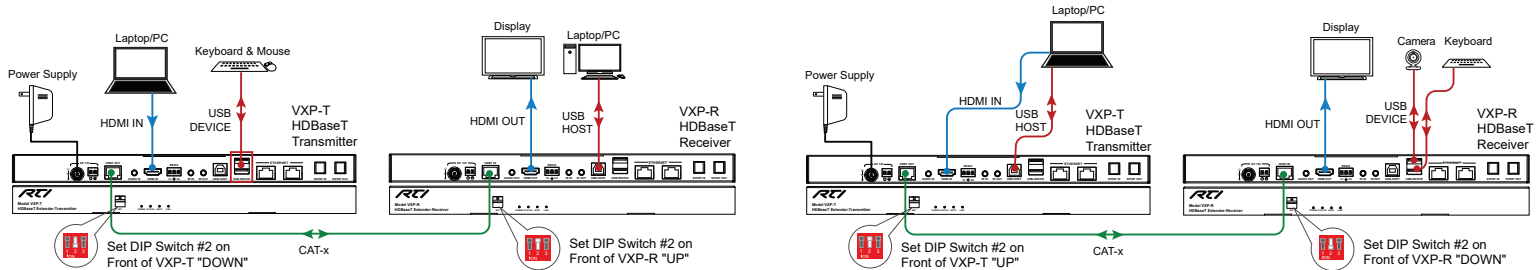


### CONNECTIONS

- Unplug power from all devices**
- Video:** Connect video sources to VXP-82 and connect an HDMI display to HDMI OUT port of VXP-R.
- HDBaseT:** Using Cat-x cable, connect HDBT OUT of VXP-82 to HDBT IN of VXP-R.
- Audio:** Connect a digital audio source to S/PDIF IN of VXP-R, connect an audio system (amplifier) to VXP-82 Audio Output.
- IR Control:** The VXP-82 Control Processor can send IR commands for control of external devices via the VXP-R. Connect an IR emitter to IR OUT of VXP-R and wire to the device for control.
- ETHERNET Switch:** Connect Ethernet network to the ETHERNET port of VXP-82 or VXP-R and connect a PC to another ETHERNET port on the VXP-82 or VXP-R to enable Local Area Network Ethernet access.
- USB Host/Device:** Connect Host PC to VXP-82, and USB devices to VXP-R and set DIP switch to "X, DOWN, X" position. When the HDBT OUT of VXP-82 selects the source PC with USB Host, the USB devices of VXP-R will be connected to the Host PC.
- RS-232 Control:** The VXP-82 Control Processor can send RS-232 commands via the VXP-R for control of external devices. Connect an external device to VXP-R RS-232 terminals and set DIP Switch to "UP, X, X" position.  
Note: When VXP-T and VXP-R are connected with VXP-82 and HDBT OUT selected VXP-T as input source, the function of ETHERNET, IR, RS-232 and USB are same as they are used to be an extender.
- Power:** Connect the power adapter to VXP-82, the VXP-R is powered via PoH (Power over HDBaseT)
- System Check:** When all is set, check if all LED indicators on switcher, transmitter or receiver are normal to ensure installation is successful. For LED indication, please refer to Front Panel Description section.

## VXP-R Installed with VXP-T

### USB Host/Device Options



### CONNECTIONS

- Unplug power from all devices**
- Video:** Connect video source to VXP-T and connect an HDMI display to HDMI OUT port of VXP-R.
- HDBaseT:** Using Cat-x cable, connect HDBT OUT of VXP-T to HDBT IN of VXP-R.
- Audio:** Connect a digital audio source to S/PDIF IN of VXP-T/VXP-R, connect S/PDIF OUT of VXP-R/VXP-T to digital audio system.
- IR Control:** For bi-directional IR pass-through, connect an IR emitter to IR OUT of VXP-T or VXP-R, and an IR receiver to IR IN of VXP-T or VXP-R.
- ETHERNET Switch:** Connect Ethernet network to the ETHERNET 1-2 port of VXP-T/VXP-R and connect a PC to another ETHERNET port on the VXP-T/VXP-R to enable Local Area Network Ethernet access.
- USB Host/Device:** To enable KVM capability, connect Host PC to VXP-T/VXP-R, connect USB devices to VXP-R/VXP-T and set the DIP switch of both VXP-T/VXP-R to the correct setting (HOST or DEVICE) depending on configuration.  
EXAMPLE: If the HOST PC is wired to the VXP-T and a keyboard/mouse wired to the VXP-R, set the DIP switch of VXP-T "X, UP, X", and DIP switch of VXP-R to "X, DOWN, X" to allow the USB keyboard/mouse to connect to the HOST PC wired to the VXP-T.
- RS-232 Pass-through:** Connect control system RS-232 output to VXP-T/VXP-R RS-232 terminals, set DIP Switch to "UP, X, X" position on both VXP-T/VXP-R to enable RS-232 pass-through.
- Power:** Connect the power adapter to VXP-T, the VXP-R is powered via PoH (Power over HDBaseT).
- System Check:** When all is set, check if all LED indicators on transmitter or receiver are normal to ensure installation is successful. For LED indication, please refer to Front Panel Description section.