

4K/UHD HDMI Over HDBaseT RX with Control and PoE

AT-UHD-EX-70C-RX



The Atlona **AT-UHD-EX-70C-RX** is an HDBaseT receiver for AV signals up to 230 feet (70 meters) over category cable with RS-232 and IR control pass-through, plus Power over Ethernet capability. It is compatible with video signals up to 4K/UHD @ 60Hz with embedded multichannel audio and remote 48V Power over Ethernet. The AT-UHD-EX-70C-RX is HDCP 2.2 compliant and supports EDID communication. The receiver features a quarter rack width metal enclosure for easy installation with rear panel I/O ports for uncluttered wire management. Use with an optional AT-IR-CS-RX IR receiver cable to capture IR remote commands for AV system control

This receiver is used in commercial and applications that call for an HDBaseT receiver with a compact form factor that allows for simple mounting behind displays and at projectors. These applications will not require an AC outlet for the receiver, since the receiver is powered by an Atlona switching product. This receiver will also be used to simplify control of the AV system by working with 12 volt-based IR receivers as well as passing through RS-232 commands.

Package Contents

- 1 x AT-HDR-EX-70C-RX
- 2 x Mounting brackets
- 4 x Mounting screws
- 1 x IR emitter
- 1 x 3-pin captive screw connector
- 1 x 5-pin captive screw connector
- 1 x Installation Guide

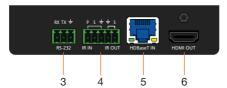


IMPORTANT: Visit http://www.atlona.com/product/AT-HDR-EX-70C-RX for the latest firmware updates and Installation Guide.



Panel Descriptions





1 FW

Connect a mini-USB to USB-A type cable from this port to a computer, to update the firmware.

2 POWER / LINK

The power LED will illuminate green when receiving power. The link LED will glow yellow when signal is being sent/received between the transmitter and the receiver.

3 RS-232

Bidirectional control port, used for pass through of commands to or from the transmitter.

4 IR IN / IR OUT

Connect an IR receiver to the **IR IN** port. Connect the included IR emitter from the **IR OUT** port to the included 5-pin captive screw connector, and place the emitter next to the display.

5 HDBaseT IN

Connect an HDBaseT cable from this port to the **HDBaseT OUT** port on the transmitter.

6 HDMI OUT

Connect an HDMI cable from a source to this port.





RS-232

A 3-pin captive screw connector for RS-232 is included.





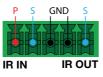


Pin out will be determined by the RS-232 cable and connect as <u>L</u> RX (receive), TX (transmit) and (Ground).

IR

A 5-pin captive screw connector for IR is included.





IR IN is connected by a power, ground, and signal wire. Use a 12V IR receiver with it (e.g. AT-IR-CS-RX purchasable through atlona.com).

IR OUT is connected by a ground and signal wire. Use the included IR emitter with this port.

Mounting Instructions

The AT-UHD-EX-70C-RX includes two mounting brackets and four mounting screws each, which can be used to attach the units to any flat surface.

- Position one of the mounting brackets, as shown below, aligning the holes on the side of the enclosure with one set of holes on the mounting bracket.
- 2. Use the enclosure screws to secure the mounting bracket to the enclosure.
- Repeat the above steps to attach the second mounting bracket to the opposite side of the unit.





 Mount the unit using the oval-shaped holes, on each mounting bracket. If using a drywall surface, a #6 drywall screw is recommended.



NOTE: Mounting brackets can also be inverted to mount the unit under a table or other flat surface.



Installation

- 1. Connect a source to the **HDMI IN** port on the transmitter.
- 2. Connect a display to the **HDMI OUT** port on the AT-UHD-EX-70C-RX.
- Connect an HDBaseT cable, from the HDBaseT OUT port on the transmitter, to the HDBaseT IN port on the AT-UHD-EX-70C-RX.
- 4. OPTIONAL: Connect a 3rd party controller to the transmitter using either the 3-pin RS-232 or the 2-pin IR IN ports.
- 5. OPTIONAL: Connect an IR receiver to the IR IN port of the AT-UHD-EX-70C-RX.
- OPTIONAL: Connect an IR emitter to the IR OUT port of the transmitter or AT-UHD-EX-70C-RX.

Cable Recommendation Guidelines

Refer to the tables below for recommended cabling when using Altona products with HDBaseT. The green bars indicate the signal quality when using each type of cable. Higher-quality signals are represented by more bars.

Core	Shielding	CAT5e	CAT6	CAT6a	CAT7
Solid	UTP (unshielded)				N/A
	STP (shielded)				
Performance Rating (MHz)		350	500	600	800



IMPORTANT: Stranded or patch cables are not recommended due to performance issues.

Cable*	Max. Distance @ 4K	Max. Distance @ 1080p
CAT5e / CAT6	115 feet (35 meters)	200 feet (60 meters)
CAT6a / CAT7	130 feet (40 meters)	230 feet (70 meters)

^{*}Atlona recommends TIA/EIA 568-B termination for optimal performance.





Updating Firmware

- Download the firmware .zip file from the firmware tab located at http://www.atlona.com/ at-uhd-ex-70c-rx.
- 2. Unzip the contents of the .zip file to the local PC.
- 3. Connect a USB to mini-USB cable from the **FW** port on the unit to an available USB port on the computer.



IMPORTANT: Do not disconnect the USB cable during the update process.



NOTE: The AT-UHD-EX Series can be powered over USB during the firmware update procedure. Therefore, connection of an external power supply (or HDBaseT) is not required.

4. Identify the correct batch (.bat) script for the product that is being updated, from the table below. Note that there are separate scripts for both TX and RX units.

SKU	Batch file
AT-UHD-EX-70C-TX	UpdateVS010TX_[version].bat
AT-UHD-EX-70C-RX	UpdateVS010RX_[version].bat

- 5. Double-click the batch file to execute it.
- 6. After the update procedure is complete, the software will go through the verification process and then display the following message:

Verification succeeded!!! :-)





	a FAREOIT Company		
Notes			
			_





AT-UHD-EX-70C-RX

Notes			



Warranty

To view the product warranty, use the following link or QR code: https://atlona.com/warranty/.



English Declaration of Conformity

The English version can be found under the resources tab at: https://atlona.com/product/at-uhd-ex-70c-rx/.



Chinese Declaration of Conformity 中国RoHS合格声明

由SKU列出於:

https://atlona.com/about-us/china-rohs/.





The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI licensing Administrator, Inc.



Toll free US International atlona.com • 877.536.3976 • 41.43.508.4321

© 2021 Atlona Inc. All rights reserved. "Atlona" and the Atlona logo are registered trademarks of Atlona Inc. All other brand names and trademarks or registered trademarks are the property of their respective owners. Pricing, specifications and availability subject to change without notice. Actual products, product images, and online product images may vary from images shown here.