



HDBase-T Receiver/Audio Extractor RBH-220

Part Number:	RBH-220
Revision Number:	1.1
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Introduction

This HDBaseT Receiver is used to receive an HDMI signal from over 230ft/70m then send to a compatible display. It supports RS-232 pass-through so you can control the source or sync from either side up to 230ft/70m. It also supports audio extraction from the HDMI signal.

Features

- HDMI 1.4b & 2.0, HDCP 1.4 & 2.2 (HDMI 2.0 when paired with Covid 2.0 TX device)
- Video resolutions up to 4k2K30Hz or 4k60Hz with 4k transmitter
- Audio up to 7.1 channels of High Definition audio pass through (LPCM, Dolby TrueHD, and DTS-HD Master Audio).
- Supports HDMI High Bit Rate (HBR) audio pass through
- Extract audio supports LPCM 2CH
- POC (Power Over Cable) functionality is supported, either TX or RX is powered by a 24V@1A power supply. POC Power consumption is less than 10W.

See the description 1

- Transfer Bidirectional RS-232 control signal together with the HDMI signal.

See the description 2

- Transmission distance: Over CAT6 cable
70 meters: 1080P @60Hz; 3D1080P@30Hz
40 meters: 1080P @60Hz; 1080P @120Hz
3D1080P@60Hz; 4K x 2K@60Hz

Package Contents

- HDMI Extender Receiver - 1PC
- 24V1A DC Power Supply - 1PC
- Mounting Brackets - 2PCS
- 3.5mm Audio Cable - 1PC
- 3pin Screw Terminal Plug - 1PCS
- Operation Manual - 1PC

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TECHNICAL SPECIFICATION



Technical Specifications

Technical	
HDMI Compliance	HDMI 1.4b & HDMI 2.0
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	[18Gbps]
Video Resolutions	up to, 4K2K@60Hz, 1080P@120Hz, and 1080P 3D@60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	8-bit, 10-bit & 12-bit
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Extract Audio Formats	LPCM 2CH
ESD Protection	Human body model - +/- 8kV (air-gap discharge) & +/-4kV (contact discharge)

Connections	
Inputs	1xDC Power In 1x HDBaseT In [RJ45] 1x RS232 [Screw Terminal]
Outputs	1x HDMI Type A [19-pin female] 1x Audio OUTPUT [3.5mm Stereo Mini-jack]

Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	65mm [W] x 115mm [D] x 17mm [H]
Weight	200g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 24V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	6W (Max)
Operation Temperature	32 - 104 °F / 0 - 40 °C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

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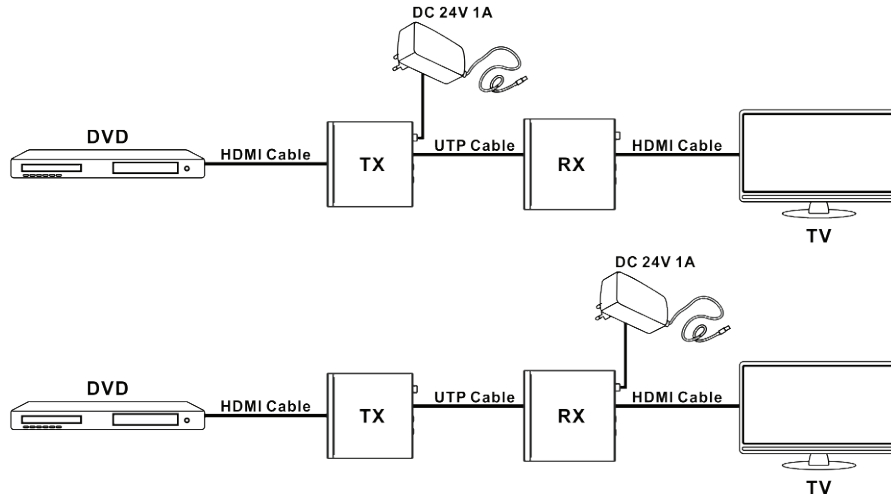
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TECHNICAL SPECIFICATION



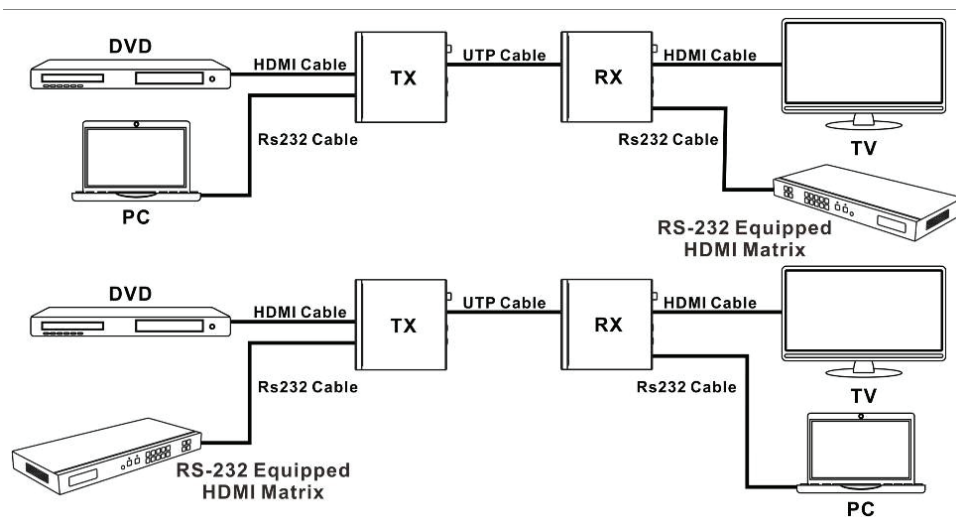
Description 1

POC (Power Over Cable) Application Example



Description 2

Bidirectional RS232 Control Application Example



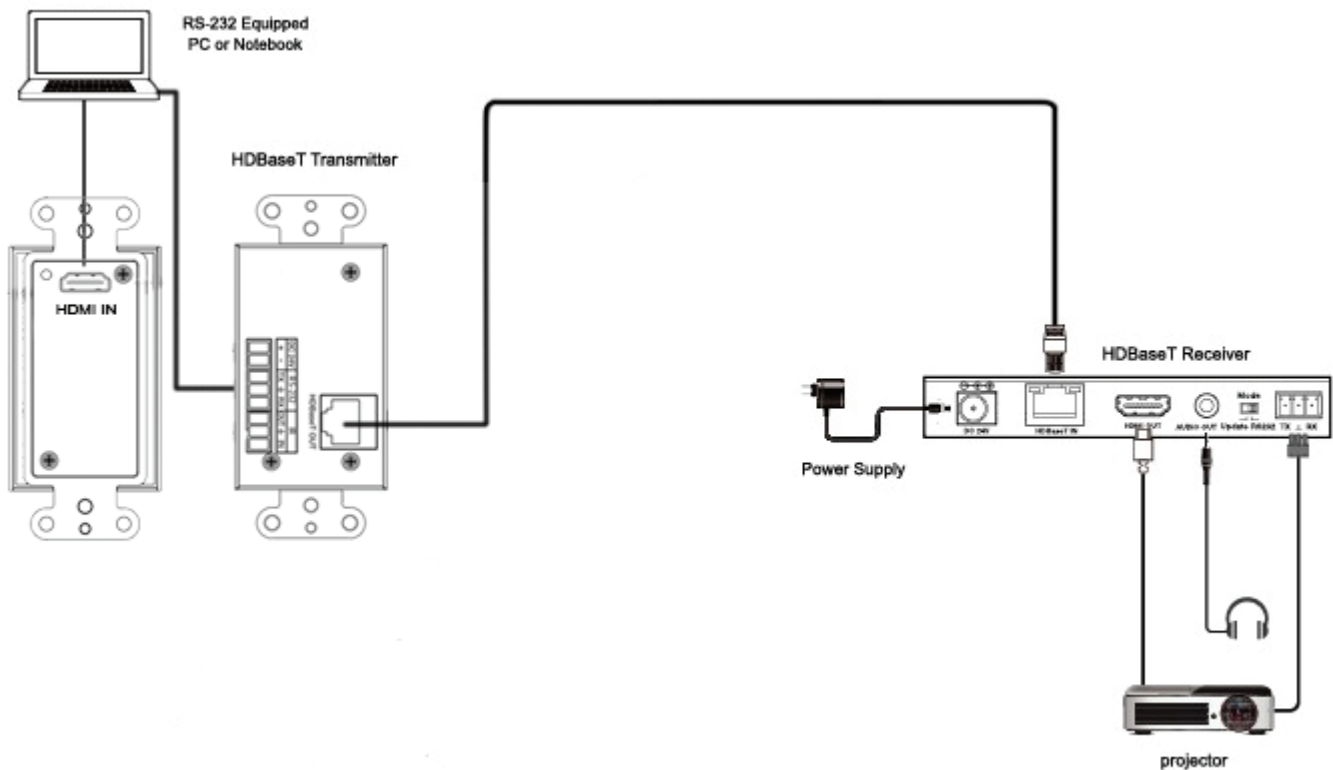
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Connection Diagram 4K@60Hz



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