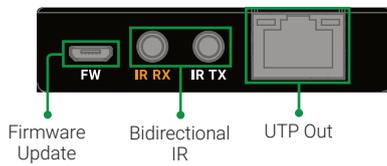# 70m HDMI 2.0 4K HDMI Extender
EX-70-H2C
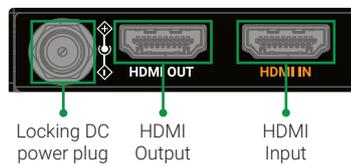
WyreStorm

Specification Sheet

EX-70-H2C Transmitter (Front)

Firmware Update — Bidirectional IR — UTP Out

EX-70-H2C Transmitter (Rear)

Locking DC power plug — HDMI Output — HDMI Input

EX-70-H2C Transmitter (Side)

2-pin switch for EDID management

EX-70-H2C Reciever (Front)

Firmware Update — Bidirectional IR — UTP Out

EX-70-H2C Reciever (Rear)

Locking DC power plug — HDMI Output — S/PDIF OUT

EX-70-H2C Reciever (Side)

2-pin switch for ARC control
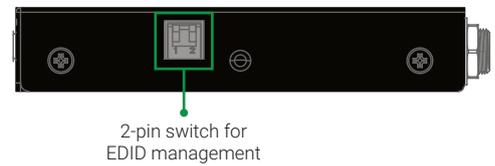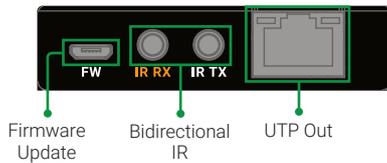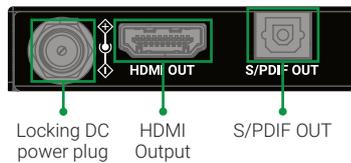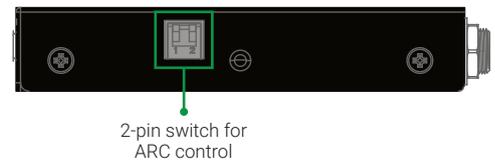
HDMI HDCP 2.3 PoC 4K ARC

WyreStorm - Powerful. Reliable. Simple.

Introduction

The EX-70-H2C is a high-performance video distribution solution designed for both residential home theaters and multi-media conference halls, capable of extending full 4K@60Hz (4:4:4) and 18Gbps signals up to 70m (230ft) over a single Cat6/6a cable. It includes an HDMI OUT loop-out on the TX unit for a local monitor, and features essential functionalities like bi-direction IR pass-through for remote device control, bi-direction POC (Power over Cable) for flexible power delivery, and ARC (Audio Return Channel) support with an S/PDIF audio de-embedding port, all packaged in a compact, durable steel chassis

Key Features

- **EDID Management**: Supports EDID control via a switch on the TX unit, allowing the user to select from fixed resolutions (1080P@60Hz or 4K@60Hz) or copy the EDID from either the TX (source) or RX (display) unit for guaranteed compatibility.
- **ARC Switch**: The RX unit includes a side switch to select between ARC audio (returning audio from the TV) or De-embed audio (extracting audio from the extended source signal).
- **Audio Format Support**: Supports a wide range of high-definition audio formats up to 7.1ch, including PCM 2.0/5.1/7.1ch, Dolby Atmos, Dolby TrueHD, DTS:X, and DTS-HD Master Audio.
- **Firmware Updates**: Both the TX and RX units are equipped with a Micro USB port for FW (firmware) updates.
- Compact and Durable Design: Features a compact size (80mm x 63mm x 15mm) with a sheet steel material and wall-mounting capability for professional installation.
- **Locking Power Connector:** Uses a locking DC 12V power connector for secure and reliable power attachment.

In the Box

1x EX-70-H2C Extender Set
1x IR Receiver
1x IR Transmitter
4x Mounting Ears
1x 12V DC Power Supply with US/UK/EU/AU Plug
1x Quickstart Guide (This Document)

Specifications

Audio and Video	
Input/Output Signal Type	HDMI 2.0, HDCP 2.3
Input/Output Resolutions	Supports VESA and SMPTE resolutions up to 4K@60Hz (4:4:4), including 3840x2160@60Hz, 4096x2160@50Hz, 4K@30Hz, 3840x1080@60Hz, 3440x1440@60Hz, 2560x1600@60Hz, 2560x1440@60Hz, 2560x1440@50Hz, 1080P@120Hz, 1080P@100Hz, 1080P@75Hz, 1080P@60Hz, 720P@60Hz
Maximum Data Rate	18Gbps
Maximum Pixel Clock	600MHz
Audio Formats	**HDMI:** Supports multichannel audio up to PCM 7.1, including PCM 2.0/5.1/7.1ch, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio and DTS:X **S/PDIF:** PCM 2.0ch, Dolby Digital, DTS 5.1

Transmission Distance	Cable Type	Range	Supported Video	
	Cat 6/6A/7	70m/230ft	1080P@60Hz 4K@60Hz	
	HDMI	Input/Output: 15m/49ft	1080p@60Hz	
		Input/Output: 10m/33ft	4K@60Hz	
		Input: 10m/33ft Output: 15m/49ft	4K@30Hz	

Power	
Power Supply	DC 12V/1A, PoC
Power Consumption (Maximum)	4.2W (per pair, via PoC)

Environmental	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) / ±4kV (Contact discharge)

Dimensions	
Height	15mm / 0.59in
Width	63mm / 2.48in
Depth	80mm / 3.15in
Weight	0.29lb (0.13kg) per unit

Regulatory	
Safety and Emission	CE	FCC	RoHS	RCM	EAC	UKCA

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

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