

24Gbps Active Optical HDMI Cable | 4K UHD
4:4:4/60 10-Bit HDR | ISF Certified

2m/6.5ft | 4m/13.1ft | 6m/19.6ft | 8m/26.2ft



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.

4K HDR **2160p 4:4:4 60** **HDMI** **HDCP 2.2** **ARC**

List of Products

EXP-CAB-HAOC-2	2m/6.5ft
EXP-CAB-HAOC-4	4m/13.1ft
EXP-CAB-HAOC-6	6m/19.6ft
EXP-CAB-HAOC-8	8m/26.2ft

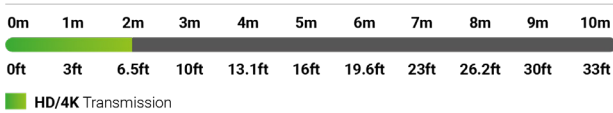
In The Box

- 1x See [List of Products](#)
- 1x Reusable Cable Ties
- 1x Quickstart Guide (This Document)

Cable Distances

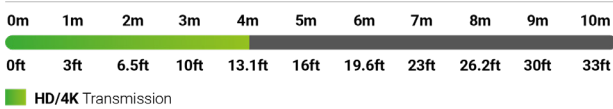
EXP-CAB-HAOC-2

Optical HDMI Cable Performance Guide



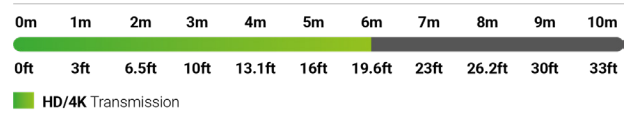
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Optical HDMI Cable Performance Guide



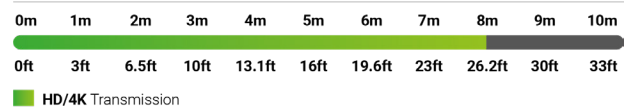
EXP-CAB-HAOC-6

Optical HDMI Cable Performance Guide

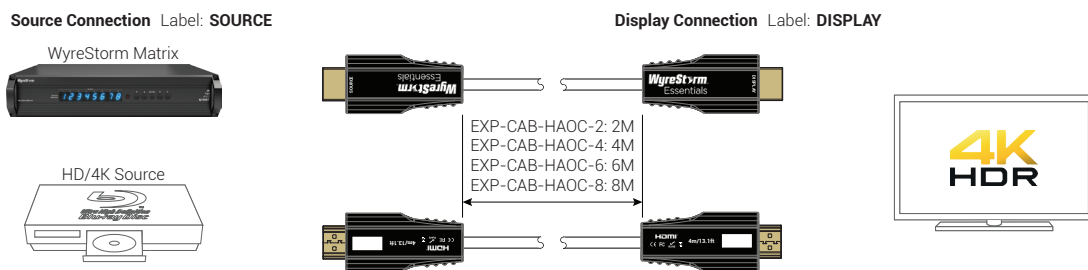


EXP-CAB-HAOC-8

Optical HDMI Cable Performance Guide



Basic Wiring Diagram

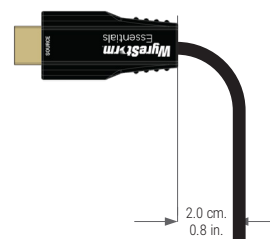


Note: Cable is unidirectional. Follow the connector labeling to ensure proper operation of the cable.

Wiring and Connections

IMPORTANT! Installation Requirements

- Follow the labeling and the diagrams for connection to ensure proper operation.
- Due to the core of the HAOC being fiber optic the cable cannot have a bend radius greater than 2cm/0.8in. Keep this in mind when routing cables around objects and inside of walls.
- The cables have a max pull tension of 15kg/33lbs. Keep this in mind when routing the cable within cabinets or walls to avoid damaging the cable.



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 two (2) years from the date of purchase. Refer to the [Product Warranty](#) page on wyrestorm.com for more details on our limited product warranty.



Specifications

Transmission					
Transmission Encoding	Uncompressed AOC				
End to End Latency	10µs				
Maximum Transmission Bit Rate	24 Gbps (4-core, 6Gbps per lane)				
Video					
HDMI	v2.0b) TMDS 600MHz Maximum (v2.1) FRL (Fixed Rate Link) 16b/18b encoding				
Input	1x HDMI: 19-pin type A Male				
Output	1x HDMI: 19-pin type A Male				
Maximum Data Rate	22.28 Gbps				
Video Resolution (Max)		EXP-CAB-HAOC-2	EXP-CAB-HAOC-4	EXP-CAB-HAOC-6	EXP-CAB-HAOC-8
	1920 x 1080p @120Hz				
	2560 x 1440p @144Hz				
	3840 x 2160p @60Hz 10bit HDR 4:2:0				
	3840 x 2160p @60Hz 12bit HDR 4:2:2	2m/6.6ft	4m/13.0ft	6m/19.6ft	8m/26.3ft
	3840 x 2160p @60Hz 10bit HDR 4:4:4				
3840 x 2160p @60Hz 10bit HDR RGB					
5120 x 2880p @30Hz 10bit HDR 4:4:4					
Supported Standards	DCI RGB Static HDR HDR10+ Dolby Vision HLG SL-HDR1 PQ BT.2020 BT.2100				
Audio					
Audio Formats	2ch PCM Multichannel LPCM DTS-X Dolby Atmos				
Maximum Sampling Rate	192KHz				
Maximum Audio Channels	32				
Audio Return Channel (ARC)	Supported				
Communication and Control					
HDCP	Pass-through, 2.3 Supported				
EDID	Pass-through, RX>TX				
Ethernet	100Mbps Supported				
Consumer Electronics Control (CEC)	Supported				
Auto Low Latency Mode (ALLM)	Supported				
Variable Refresh Rate (VRR)	Supported				
Installation Restrictions					
Max Bend Radius	2cm				
Max Pull Tension	15kg/33lbs				
Orientation	Uni-directional - Observe signal flow direction prior to installation				
Power					
Power Supply	Passive 4.5v~5.5v VCC (From Connected Source)				
Max Power Consumption	250mW				
Environmental					
Operating Temperature	14°F ~ 122°F (-10°C ~ 50°C) 10% ~ 90%, non-condensing				
Storage Temperature	-4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90%, non-condensing				
Maximum BTU	0.85 BTU/hr				
Impact	Low, free from single use plastic				
Dimensions and Weight (Connector Housing)					
Height	9mm/0.36in				
Width	19.8mm/0.78in				
Depth	39.5mm/1.56in				
Weight	NA				
Cable Length (Connector to Connector)	EXP-CAB-HAOC-2	EXP-CAB-HAOC-4	EXP-CAB-HAOC-6	EXP-CAB-HAOC-8	
	2m/6.6ft	4m/13.0ft	6m/19.6ft	8m/26.3ft	
Regulatory					
Safety and Emission	CE FCC RoHS				

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