24Gbps 4:4:4 60Hz over Active Optical HDMI Cable with Detachable Head

15m/50ft | 20m/65ft | 30m/98ft | 40m/131ft | 50m/164ft

WyreStorm

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 2.3 ARC

List of Products

CAB-HAOC-15-C	CPR Rated	15m/50ft
CAB-HAOC-15-P	CL2/CL3 Plenum Rated	
CAB-HAOC-20-C	CPR Rated	20m/65ft
CAB-HAOC-20-P	CL2/CL3 Plenum Rated	
CAB-HAOC-30-C	CPR Rated	30m/98ft
CAB-HAOC-30-P	CL2/CL3 Plenum Rated	
CAB-HAOC-40-C	CPR Rated	40m/131ft
CAB-HAOC-40-P	CL2/CL3 Plenum Rated	
CAB-HAOC-50-C	CPR Rated	50m/164ft
CAB-HAOC-50-P	CL2/CL3 Plenum Rated	

In The Box

1x See List of Products
2x Reusable Cable Ties
1x Type D-A HDMI Head converter
2x Retaining Screws for HDMI head
1x Micro USB power cable (back up only)
1x Quickstart Guide (This Document)

Cable Distances

Optical HDMI Cable Performance Guide

0m 5m 10m 15m 20m 25m 30m 35m 40m 45m 50m
0ft 16ft 33ft 49ft 65ft 82ft 98ft 115ft 131ft 148ft 164ft

HD/4K Transmission

Optical HDMI Cable Performance Guide

0m 5m 10m 15m 20m 25m 30m 35m 40m 45m 50m
0ft 16ft 33ft 49ft 65ft 82ft 98ft 115ft 131ft 148ft 164ft

HD/4K Transmission

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HD/4K Transmission

Optical HDMI Cable Performance Guide

0m 5m 10m 15m 20m 25m 30m 35m 40m 45m 50m
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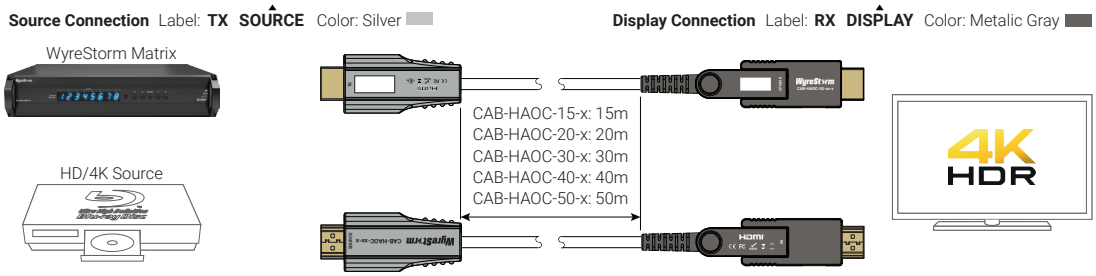
HD/4K Transmission

Optical HDMI Cable Performance Guide

0m 5m 10m 15m 20m 25m 30m 35m 40m 45m 50m
0ft 16ft 33ft 49ft 65ft 82ft 98ft 115ft 131ft 148ft 164ft

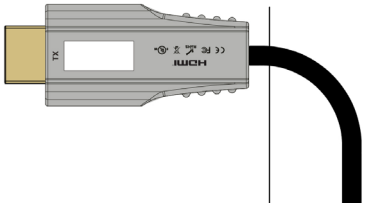
HD/4K Transmission

Basic Wiring Diagram



Note: Cable is unidirectional. Follow the connector labeling and color coding 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 6cm/2.4in. Keep this 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 five (5) years from the date of purchase. Refer to the Product Warranty page on wyrestorm.com for more details on our limited product warranty.

5 YEAR WARRANTY™

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support@wyrestorm.com

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 D Male | Type A Detachable Head					
Maximum Data Rate	22.28 Gbps					
		CAB-HAOC -15-x	**CAB-HAOC -20-x**	**CAB-HAOC -30-x**	**CAB-HAOC -40-x**	**CAB-HAOC -50-x**
Video Resolution (Max)	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 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	15m/50ft	20m/65ft	30m/98ft	40m/131ft	50m/164ft
Supported Standards	DCI | 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/0.78in					
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					
	CAB-HAOC -15-x	**CAB-HAOC -20-x**	**CAB-HAOC -30-x**	**CAB-HAOC -40-x**	**CAB-HAOC -50-x**	
Cable Length (Connector to Connector)	15m/50ft	20m/65ft	30m/98ft	40m/131ft	50m/164ft	
Regulatory						
Safety and Emission	CAB-HAOC-xx-C: CE | FCC | RoHS | CPR		CAB-HAOC-xx-P: CE | FCC | RoHS | Plenum UL (CL3) | FT6			

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