

24Gbps 4:4:4 60Hz over Active Optical HDMI Cable (10m/33ft | 15m/49ft | 20m/65ft)

CAB-HAOC-10 | CAB-HAOC-15 | CAB-HAOC-20



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. This product has been released in 3 versions for the 10m/15m/20m lengths that have different level certifications. Version 3 of these lengths adds CL3/FT4 certification which is not available on the version 1 and 2.

2160p
4:4:4 60 HDR HDMI HDCP 2.3 ARC

! IMPORTANT! Installation Requirements

Cable is uni-directional. Follow the connector labeling and color coding to ensure proper operation of the cable.

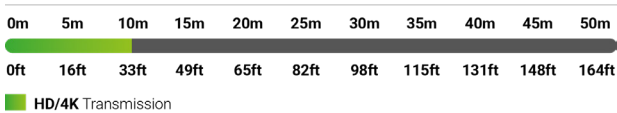
In The Box

- 1x CAB-HAOC-10, CAB-HAOC-15 or CAB-HAOC-20 Active Optical HDMI Cable
- 2x Reusable Cable Ties
- 1x Quickstart Guide (This Document)

Cable Distances

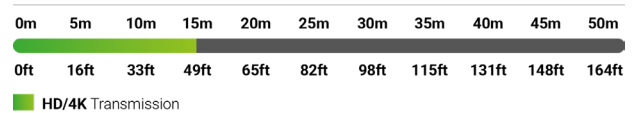
CAB-HAOC-10

Optical HDMI Cable Performance Guide



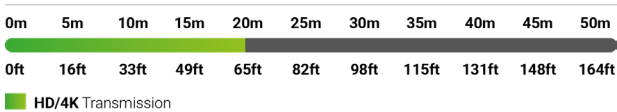
CAB-HAOC-15

Optical HDMI Cable Performance Guide



CAB-HAOC-20

Optical HDMI Cable Performance Guide

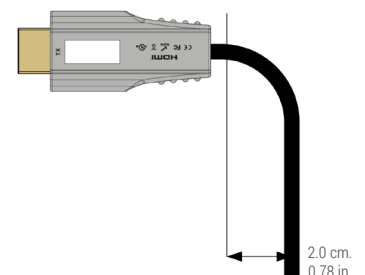


Wiring and Connections

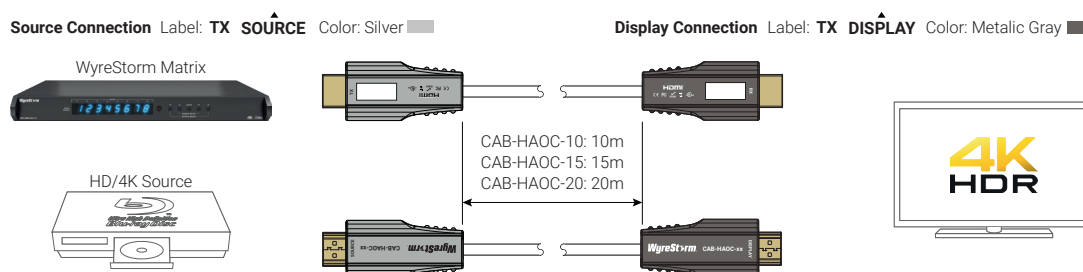
! IMPORTANT! Installation Requirements

The WyreStorm Active Optical cables are designed to transmit HDMI signals from the source to a display.

- 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/0.78in. 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.



Basic Wiring Diagram



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.



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			
		CAB-HAOC-10	CAB-HAOC-15	CAB-HAOC-20
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	10m/33ft	15m/49ft	20m/65ft
	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 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-10	CAB-HAOC-15	CAB-HAOC-20
Cable Length (Connector to Connector)	10m/33ft		15m/49ft	20m/65ft
Regulatory				
Safety and Emission	All lengths: CE FCC RoHS CL3 FT4			

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