

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

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



## 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.



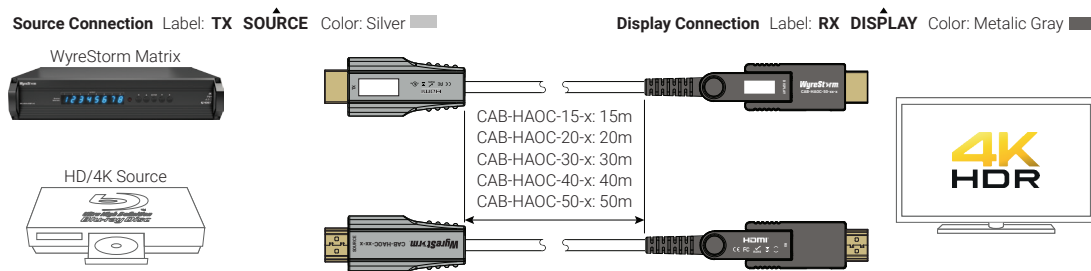
### List of Products

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

### Basic Wiring Diagram

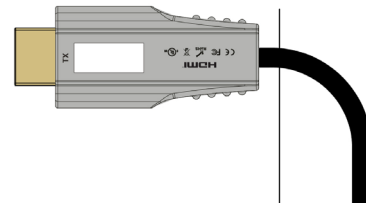


Note: Cable is unidirectional. Follow the connector labeling and color coding to ensure proper operation of the cable.

### 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](http://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 D Male   Type A Detachable Head					
Maximum Data Rate	22.28 Gbps					
Video Resolution (Max)		CAB-HAOC -15-x	CAB-HAOC -20-x	CAB-HAOC -30-x	CAB-HAOC -40-x	CAB-HAOC -50-x
	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	15m/50ft	20m/65ft	30m/98ft	40m/131ft	50m/164ft
	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					
Cable Length (Connector to Connector)	CAB-HAOC -15-x	CAB-HAOC -20-x	CAB-HAOC -30-x	CAB-HAOC -40-x	CAB-HAOC -50-x	
	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.