18Gbps 4:4:4 60Hz over Active Optical HDMI Cable (10m/33ft | 15m/50ft | 20m/65ft | 30m/98ft)

CAB-HAOC-10 | CAB-HAOC-15 | CAB-HAOC-20 | CAB-HAOC-30

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.
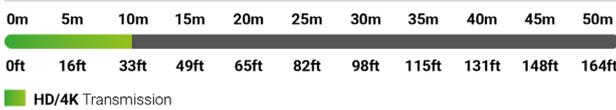
2160p 4:4:4 60 · 4K HDR · HDMI · HDCP 2.2 · CGC · ARC

In The Box

1x CAB-HAOC-10, CAB-HAOC-15, CAB-HAOC-20 or CAB-HAOC-30 Active Optical HDMI Cable
2x Reusable Cable Ties
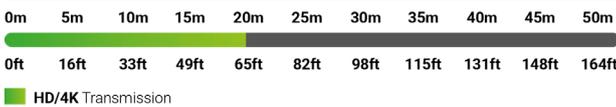1x Quickstart Guide (This Document)

Cable Distances
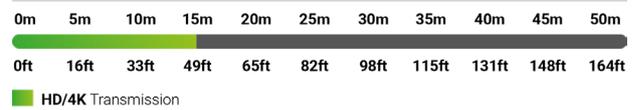
CAB-HAOC-10

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

CAB-HAOC-15

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

CAB-HAOC-20

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

CAB-HAOC-30

Optical HDMI Cable Performance Guide

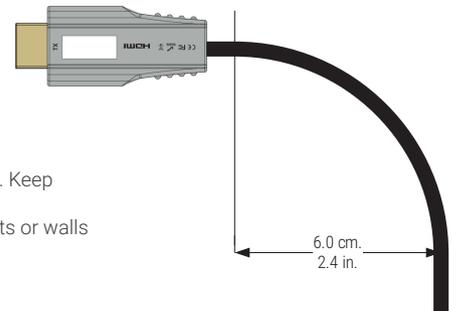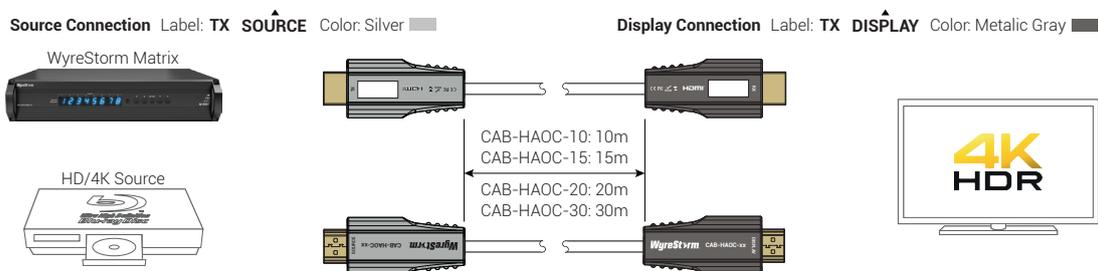| 0m	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m
0ft	16ft	33ft	49ft	65ft	82ft	98ft	115ft	131ft	148ft	164ft

■ **HD/4K** Transmission

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 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.

6.0 cm.
2.4 in.

Basic Wiring Diagram

Source Connection Label: **TX SOURCE** Color: Silver ■   **Display Connection** Label: **TX DISPLAY** Color: Metalic Gray ■

WyreStorm Matrix

HD/4K Source

CAB-HAOC-10: 10m
CAB-HAOC-15: 15m

CAB-HAOC-20: 20m
CAB-HAOC-30: 30m

4K HDR

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

Specifications

Audio and Video	
Inputs	1x HDMI: 19-pin type A Male
Outputs	1x HDMI: 19-pin type A Male
Output Video Encoding	AOC
Encoding Data Rate	18Gbps
End to End Latency	Zero
Audio Formats	2ch PCM | Multichannel: LPCM and Up to DTS-X and Dolby Atmos

		CAB-HAOC-10	CAB-HAOC-15	CAB-HAOC-20	CAB-HAOC-30
Video Resolution (Max)	1920x1080p @60Hz 16bit 3840x2160p @60Hz 10/12bit HDR 4:2:2 4096x2160p @60Hz 8bit 4:4:4 4096x2160p @60Hz RGB	10m/33ft	15m/50ft	20m/65ft	30m/98ft

Supported Standards	DCI | RGB | HDR | HDR10 | Dolby Vision | HLG | BT.2020 | BT.2100
Maximum Pixel Clock	600MHz
Communication and Control	
HDMI	TMDS | HDCP | EDID | CEC | ARC | Ethernet
Ethernet	Supported
Audio Return Channel (ARC)	Supported
Installation Restrictions	
Max Bend Radius	6cm
Max Pull Tension	15kg
Power	
Power Supply	Passive 5V DC 1A | 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
Dimensions and Weight	
Rack Units/Wall Box	NA
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	CAB-HAOC-30
Cable Length (Connector to Connector)	10m/33ft	15m/50ft	20m/65ft	30m/98ft

Regulatory	
Safety and Emission	CE | FCC | RoHS

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.