

**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



Specification Sheet



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

WyreStorm - Powerful. Reliable. Simple.

Introduction

The WyreStorm HAOC is a next generation HDMI cable designed for the next generation of 4K HDR content. It offers a unique feature set in both delivering uncompressed HDMI content at up to 24Gbps and compatibility with emerging HDMI technologies such as ALLM (Auto Low Latency Mode) & VRR (Variable Refresh Rate) using the latest in optical transmission technology.

Now established as the most powerful form of HDMI extension, WyreStorm active optical cables offer the best of both worlds: pixel-perfect long distance transmission of content and native HDMI communication, thanks to their ability to be a passive communication technology compared to normal HDBaseT™ extenders that often terminate the HDMI signal prior to transmission.

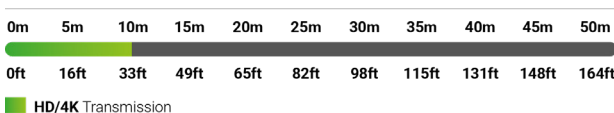
Key Features

- Uncompressed optical transmission of HDMI content up to 24Gbps:
 - 2K (2560 x 1440p) 4:4:4 8-bit at 144Hz
 - 4K (4096 x 2160p) 4:4:4 10-bit HDR at 60Hz
 - 5K (5120 x 2880p) 4:4:4 10-bit HDR at 30Hz
- Compatible with all current and emerging HDR standards at up to 60Hz:
 - HLG (Hybrid Log Gamma)
 - HDR-10 and HDR-10+
 - Dolby Vision
 - PQ (Perceptual Quantizer)
 - SL-HDR-1
- Ready for future HDCP 2.3 content encryption
- True native HDMI communication ensures CEC and ARC communication between compatible devices
- Supports emerging HDMI technologies such as ALLM (Auto Low Latency Mode) and VRR (Variable Refresh Rate)
- Perfect for use in environments with excessive EM or RF interference
- Kevlar protected communication cores
- High quality aluminum construction with low-profile 20mm/0.79" TX head
- Supplied coiled in box
- No single use plastic included* #SUPFree
- Available in 2m, 4m 6m & 8m lengths in Essentials range and 10-50m lengths available in WyreStorm Professional range of products

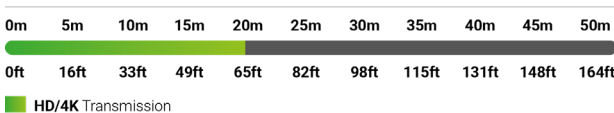
In the Box

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

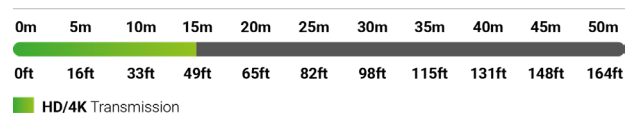
Optical HDMI Cable Performance Guide



Optical HDMI Cable Performance Guide



Optical HDMI Cable Performance Guide



Specifications

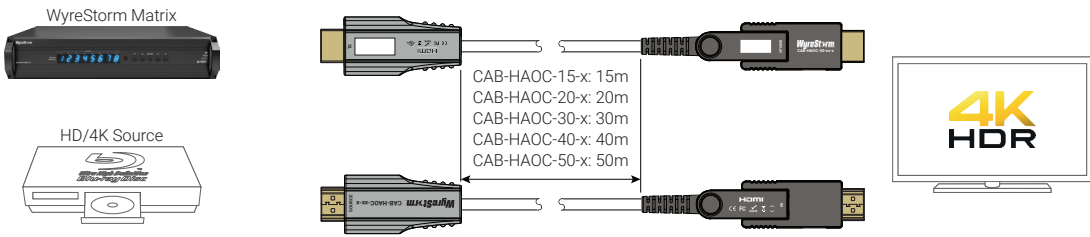
Transmission				
Transmission Encoding	Uncompressed AOC			
End to End Latency	10µs			
Maximum Transmission Bit Rate	24 Gbps (4-core, 6Gbps per lane)			
Video				
HDMI	(v2.0b) TMDS 600MHz Maximum (v2.1) FRL (Fixed Rate Link) 16b/18b encoding			
Input	1x HDMI: 19-pin type A Male			
Output	1x HDMI: 19-pin 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.

Right Product for the Right Application.

Source Connection Label: **TX SOURCE** Color: Silver

Display Connection Label: **RX DISPLAY** Color: Metallic Gray



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