

**24Gbps Active Optical HDMI Cable | 4K UHD**  
**4:4:4/60 10-Bit HDR | ISF Certified**  
**2m/6.6ft | 4m/13.0ft | 6m/19.6ft | 8m/26.3ft**



**4K HDR** **2160p 4:4:4 60** **HDMI** **HDCP 2.2** **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.

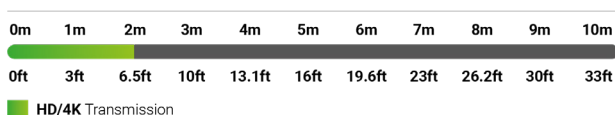
## Key Features

- 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

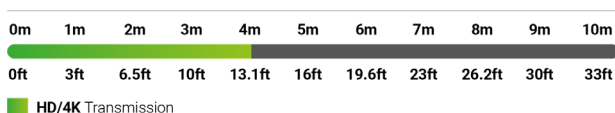
## In the Box

- 1x EXP-CAB-HAOC-2, EXP-CAB-HAOC-4, EXP-CAB-HAOC-6 or EXP-CAB-HAOC-8 Active Optical HDMI Cable
- 1x Reusable Cable Ties
- 1x Quickstart Guide (This Document)

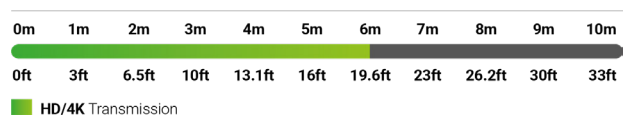
Optical HDMI Cable Performance Guide



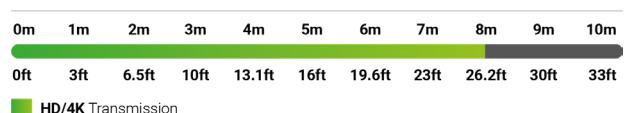
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# Specifications

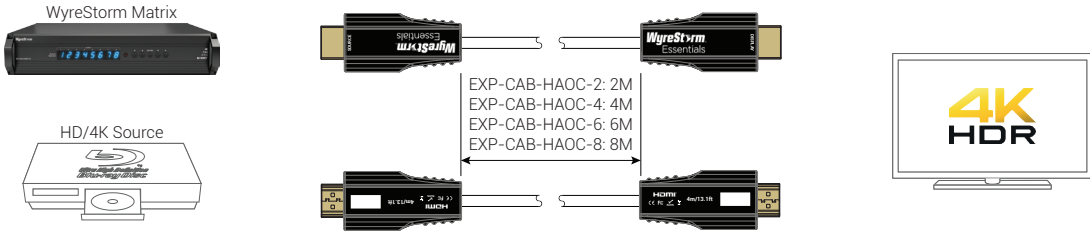
Transmission					
Transmission Encoding	Uncompressed AOC				
End to End Latency	10µs				
Maximum Transmission Bit Rate	24 Gbps (4-core, 6Gbps per lane)				
Video					
HDMI	v2.0b) TMDS   600MHz Maximum   (v2.1) FRL (Fixed Rate Link)   16b/18b encoding				
Input	1x HDMI: 19-pin type A Male				
Output	1x HDMI: 19-pin type A Male				
Maximum Data Rate	22.28 Gbps				
Video Resolution (Max)		EXP-CAB-HAOC-2	EXP-CAB-HAOC-4	EXP-CAB-HAOC-6	EXP-CAB-HAOC-8
	1920 x 1080p @120Hz				
	2560 x 1440p @144Hz				
	3840 x 2160p @60Hz 10bit HDR 4:2:0	2m/6.6ft	4m/13.0ft	6m/19.6ft	8m/26.3ft
	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					
Supported Standards	DCI   RGB   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				
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)	EXP-CAB-HAOC-2	EXP-CAB-HAOC-4	EXP-CAB-HAOC-6	EXP-CAB-HAOC-8	
	2m/6.6ft	4m/13.0ft	6m/19.6ft	8m/26.3ft	
Regulatory					
Safety and Emission	CE   FCC   RoHS				

**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: **SOURCE**

Display Connection Label: **DISPLAY**



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