

**48Gbps 8K/60 HDR 4:4:4 Active Optical HDMI Cable |
eARC, CEC, ALLM & VRR | ISF Certified (10m/33ft | 15m/49ft)
CAB-HAOC-FRL-10 | CAB-HAOC-FRL-15**



4320p **60** **8K** **48GBPS** **HDMI** **HDCP** **2.3** e-ARC

WyreStorm - Powerful. Reliable. Simple.

Introduction

The WyreStorm HAOC is a next generation HDMI cable designed for the next generation of 8K and 4K HDR content. 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 HDBaseT extenders that often terminate the HDMI signal prior to transmission. Looking ahead to the next generation of content crossing into the HDMI2.1 specification, WyreStorm FRL hybrid optical HDMI cables have been designed ready for both content available now and that of the future.

8K and high framerate 4K HDR up to 48Gbps and new HDR standards such as SL-HDR1 and PQ are supported using the latest optical transmission technology. Additionally they offer a unique feature set in both delivering uncompressed HDMI content and compatibility with emerging HDMI technologies such as ALLM (Auto Low Latency Mode) & VRR (Variable Refresh Rate).

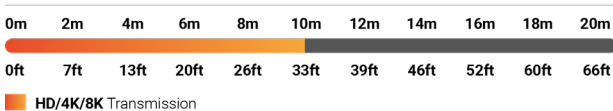
Key Features

- Uncompressed optical transmission of HDMI content up to 48Gbps:
 - 2K (2560 x 1440p) 240Hz
 - 4K (4096 x 2160p) 144Hz
 - 5K (5120 x 2880p) 60Hz
 - 8K (7680 x 4320p) 60Hz
 - Timings listed are quoted as 4:4:4 8-bit
- Compatible with all current and emerging HDR standards:
 - 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
- Compatible with new eARC HD audio standard for on-demand content from smart TV's
- Supports HDMI2.1 FRL (Fixed Rate Link) 16/18b encoding and DSC (Display Stream Compression)
- True native HDMI communication ensures CEC and audio return communication between compatible devices
- Supports new HDMI2.1 features 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 aluminium construction with low-profile 20mm/0.79" TX head
- Supplied coiled on cardboard spool in box, with RX head out first.
- No single use plastic included* #SUPFree
- Also available in 15m/49ft length

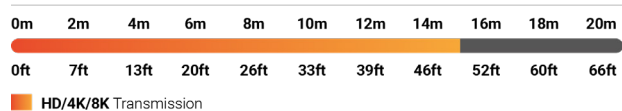
In the Box

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

Optical HDMI Cable Performance Guide



Optical HDMI Cable Performance Guide



Specifications

Transmission			
Transmission Encoding	Uncompressed AOC (with DSC support between Source-Display when required)		
End to End Latency	10µs		
Maximum Transmission Bit Rate	48Gbps (4-core, 12Gbps per lane)		
Video			
HDMI	(v2.0b) TMDS 600MHz Maximum (v2.1) FRL (Fixed Rate Link) 16b/18b encoding DSC (Display Stream Compression) Supported		
Input	1x HDMI: 19-pin type A Male		
Output	1x HDMI: 19-pin type A Male		
Maximum Data Rate	42.6 Gbps		
Supported Video Resolutions*		CAB-HAOC-FRL-10	CAB-HAOC-FRL-15
	1920 x 1080p @240Hz		
	2560 x 1440p @240Hz		
	3840 x 2160p @144Hz	10m/33ft	15m/49ft
	5120 x 2880p @60Hz 7680 x 4320p @60Hz		
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		
Enhanced Audio Return Channel (eARC)	Supported		
Communication and Control			
HDCP	Pass-through, 2.3 Supported		
EDID	Pass-through, RX>TX		
Ethernet	100Mbps Supported		
Consumer Electronics Control (CEC)	Bidirectional 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		
Jacket Material	PVC		
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-FRL-10: 10m/33ft CAB-HAOC-FRL-15: 15m/49ft		
Regulatory			
Safety and Emission	CE FCC CL3 RoHS EAC		

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.

