24Gbps Active Optical HDMI Cable | 4K UHD 4:4:4/60 10-Bit HDR | ISF Certified



Quickstart Guide

2m/6.5ft | 4m/13.1ft | 6m/19.6ft | 8m/26.2ft

WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.

In The Box 1x See List of Products 1x Reusable Cable Ties

EXP-CAB-HAOC-6

1m

3ft

HD/4K Transmission

EXP-CAB-HAOC-8

1m

3ft

HD/4K Transmission

0m

0ft

0m

Oft

Optical HDMI Cable Performance Guide

2m

6.5ft

Optical HDMI Cable Performance Guide

2m

6.5ft

3m

10ft

3m

10ft

4m

13.1ft

4m

13.1ft

5m

16ft

5m

16ft

6m

19.6ft

6m

19.6ft

7m

23ft

7m

23ft

8m

26.2ft

8m

26.2ft

9m

30ft

9m

30ft

10m

33ft

10m

33ft

1x Quickstart Guide (This Document)



List of Products

| EXP-CAB-HAOC-2 | 2m/6.5ft |
|----------------|-----------|
| EXP-CAB-HAOC-4 | 4m/13.1ft |
| EXP-CAB-HAOC-6 | 6m/19.6ft |
| EXP-CAB-HAOC-8 | 8m/26.2ft |

Cable Distances

EXP-CAB-HAOC-2

Optical HDMI Cable Performance Guide

| 0m | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
|-----|----------|-----------|------|--------|------|--------|------|--------|------|------|
| Oft | 3ft | 6.5ft | 10ft | 13.1ft | 16ft | 19.6ft | 23ft | 26.2ft | 30ft | 33ft |
| н | D/4K Tra | ansmissio | n | | | | | | | |

EXP-CAB-HAOC-4

| Optica | al HDMI | Cable Per | forman | ce Guide | | | | | | |
|--------|---------|-----------|--------|----------|------|--------|------|--------|------|------|
| 0m | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
| Oft | 3ft | 6.5ft | 10ft | 13.1ft | 16ft | 19.6ft | 23ft | 26.2ft | 30ft | 33ft |

HD/4K Transmission

Basic Wiring Diagram

Source Connection Label: SOURCE Display Connection Label: DISPLAY WyreStorm Matrix 12345678 EXP-CAB-HAOC-2: 2M EXP-CAB-HAOC-4: 4M EXP-CAB-HAOC-6: 6M HD/4K Source IDR н EXP-CAB-HAOC-8: 8M <u>__</u> -Hamr 4m/13.1 3 5

Note: Cable is unidirectional. Follow the connector labeling 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 2cm/0.8in. 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.



Specifications

| Audio and Video | | | | | |
|---|---|--------------------------------|--------------------|----------------------|--------------------|
| Inputs | 1x HDMI: 19-pin type A Male | | | | |
| Outputs | 1x HDMI: 19-pin type A Male | | | | |
| Output Video Encoding | Uncompressed AOC | | | | |
| Encoding Data Rate | 24Gbps | | | | |
| End to End Latency | Zero | | | | |
| Audio Formats | 2ch PCM Multichannel: LPCM and Up | to DTS-X and Do | lby Atmos | | |
| | | EXP-CAB- HAOC-2 | EXP-CAB- HAOC-4 | EXP-CAB- HAOC-6 | EXP-CAB- HAOC-8 |
| Video Resolution (Max) | 1920x1080p @240Hz 8bit RGB 2560x1440p @120Hz 8bit RGB 4096x2160p @60Hz 10bit HDR 4:2:0 4096x2160p @60Hz 12bit HDR 4:2:2 | 2m/6.5ft | 4m/13.1ft | 6m/19.6ft | 8m/26.2ft |
| | 4096x2160p @60Hz 10bit HDR 4:4:4 4096x2160p @60Hz 10bit RGB | | | | |
| Supported Standards | DCI RGB HDR HDR10 Dolby Vision | HLG BT.2020 | BT.2100 | | |
| Maximum Pixel Clock | 742.5MHz | | | | |
| Communication and Control | | | | | |
| HDMI | TMDS HDCP 2.2 EDID | | | | |
| Supported Functions | Ethernet Audio Return Channel (ARC) | Auto Low Laten | cy Mode (ALLM) V | ariable Refresh Rate | e (VRR) |
| | | | | | |
| Installation Restrictions | | | | | . , |
| | 2cm | | | | |
| Max Bend Radius | 2cm 15kg/33lbs | | | | |
| Max Bend Radius Max Pull Tension | | ection prior to ins | stallation | | |
| Installation Restrictions Max Bend Radius Max Pull Tension Orientation Power | 15kg/33lbs | ection prior to ins | stallation | | |
| Max Bend Radius Max Pull Tension Orientation Power | 15kg/33lbs | | stallation | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply | 15kg/33lbs Uni-directional - Observe signal flow dir | | stallation | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply Max Power Consumption | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect | | stallation | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply Max Power Consumption Environmental | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect | ed Source) | | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply Max Power Consumption Environmental Operating Temperature | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect 250mW | ed Source) 0%, non-condensi | ng | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply Max Power Consumption Environmental Operating Temperature Storage Temperature | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect 250mW 14°F ~ 122°F (-10°C ~ 50°C) 10% ~ 90 | ed Source) 0%, non-condensi | ng | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply Max Power Consumption Environmental Operating Temperature Storage Temperature Maximum BTU | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect 250mW 14°F ~ 122°F (-10°C ~ 50°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 0.85 BTU/hr | ed Source) 0%, non-condensi | ng | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply Max Power Consumption Environmental Operating Temperature Storage Temperature Maximum BTU Dimensions and Weight (Connector | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect 250mW 14°F ~ 122°F (-10°C ~ 50°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 0.85 BTU/hr | ed Source) 0%, non-condensi | ng | | |
| Max Bend Radius Max Pull Tension Orientation | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect 250mW 14°F ~ 122°F (-10°C ~ 50°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 0.85 BTU/hr or Housing) | ed Source) 0%, non-condensi | ng | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply Max Power Consumption Environmental Operating Temperature Storage Temperature Maximum BTU Dimensions and Weight (Connector Rack Units/Wall Box Height | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect 250mW 14°F ~ 122°F (-10°C ~ 50°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 0.85 BTU/hr or Housing) NA | ed Source) 0%, non-condensi | ng | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply Max Power Consumption Environmental Operating Temperature Storage Temperature Maximum BTU Dimensions and Weight (Connector Rack Units/Wall Box | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect 250mW 14°F ~ 122°F (-10°C ~ 50°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 0.85 BTU/hr or Housing) NA 9mm/0.36in | ed Source) 0%, non-condensi | ng | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply Max Power Consumption Environmental Operating Temperature Storage Temperature Maximum BTU Dimensions and Weight (Connector Rack Units/Wall Box Height Width | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect 250mW 14°F ~ 122°F (-10°C ~ 50°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 0.85 BTU/hr or Housing) NA 9mm/0.36in 19.8mm/0.78in | ed Source) 0%, non-condensi | ng | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply Max Power Consumption Environmental Operating Temperature Storage Temperature Storage Temperature Maximum BTU Dimensions and Weight (Connector Rack Units/Wall Box Height Width Depth | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect: 250mW 14°F ~ 122°F (-10°C ~ 50°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 0.85 BTU/hr or Housing) NA 9mm/0.36in 19.8mm/0.78in 39.5mm/1.56in | ed Source) 0%, non-condensi | ng | | |
| Max Bend Radius Max Pull Tension Orientation Power Power Supply Max Power Consumption Environmental Operating Temperature Storage Temperature Maximum BTU Dimensions and Weight (Connector Rack Units/Wall Box Height Width Depth Weight Cable Length | 15kg/33lbs Uni-directional - Observe signal flow dir Passive 4.5v~5.5v VCC (From Connect: 250mW 14°F ~ 122°F (-10°C ~ 50°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 -4°F to ~ 140°F (-20°C ~ +60°C) 10% ~ 90 NA 9mm/0.36in 19.8mm/0.78in 39.5mm/1.56in NA EXP-CAB-HAOC-2 2m/6.5ft EXP-CAB-HAOC-4 4m/13.1ft EXP-CAB-HAOC-6 6m/19.6ft | ed Source) 0%, non-condensi | ng | | |

Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.

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 two (2) years from the date of purchase. Refer to the Product Warranty page on wyrestorm.com for more details on our limited product warranty.

