



**HDMI™ AOC Hybrid Fiber
Optic Cable UHD 8K60**

USER MANUAL

AOC-8K

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Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the service life of your equipment.

Registration Page

Please activate your warranty by registering our product through the link below - <https://www.orei.com/pages/warranty-registration>

Technical Support

Need Help?

Our experienced Technical Support Team is here for you to answer your questions, give technical advice or help troubleshoot your project to get you installed on time and on budget. Call, email or chat with us now.

OREI Live Technical Support Hours

US team (US/Canada/Mexico): Monday-Friday, 9 a.m. - 5 p.m. Central Time

Support Email - info@orei.com | **Support Number** - 877-290-5530

Or

Chat Live on www.orei.com

Send us an instant message now. Our Technical Support Team will respond momentarily. Available during live support hours.

Introduction

HDMI™ AOC hybrid-fiber connection cable, Standard HDMI™ Type A port (M/M, gold-plated), 5-100m (16-328ft), UHD 8K@60Hz, uncompressed transmission

This HDMI™ UHD hybrid active optical cable (AOC) converts between HDMI™ signals and optical signals for optimal data transmission. It is ideally suited for transferring uncompressed video and audio data with high bandwidth over longer distances. The hybrid construction, which uses copper and fiber optic cable, prevents electromagnetic interference. This ensures a loss-free transfer along the entire length of the cable with UHD resolution of up to 8K@60Hz 4:4:4 and bandwidths of up to 48Gbps. The use of fiber optic cable keeps the diameter of this active cable very low and gives it a very tight bending radius and low weight. It is ideal for use in homes and conference rooms as well as within buildings. The simple Plug and Play installation is user-friendly; just plug it in and immediately enjoy optimal image quality.

This product supports numerous standards such as HDCP 2.3 and HDR. As far as audio goes, features such as DTS-HD Master Audio, Dolby TrueHD and many more are supported.

Transfer of uncompressed video and audio signals over a distance of up to 5-100m (16-328ft) in UHD 8K resolution with 48Gbps bandwidth

1. Compliant with HDCP 2.3 specifications
2. Support video resolution up to 8K@60Hz YUV 4:4:4, 8K@30Hz, 4K@120Hz, as specified in HDMI™ 2.1
3. Data transfer rates up to 48Gbps
4. Extend video and audio signals up to 5-100m (16-328ft)
5. Support VRR, ALLM, QMS, QFT, SBTM
6. HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through
7. Support 3D format
8. High dynamic range (HDR) video for expansive contrast ratio and color accuracy
9. Hybrid construction using both copper and fiber to ensure long-distance lossless transmission, flexible and convenient wiring, and no need for external power supply
10. With high-performance photoelectric conversion chip, the signal transmission is stable and reliable
11. Gold-plated connectors and nylon-braided PVC for best plug resistance and longevity
12. Support CEC function
13. Support Lip Sync (Audio/Video synchronisation)
14. Audio formats: LPCM, Dolby TrueHD, DTS-HD Master Audio, DSD
15. Support 8-channel LPCM, 192kHz, 24-bit audio capability
16. Support Blu-ray Disc and HD DVD audio and video
17. With double shielding

Specifications

18. The source connector connects to the source, and the display connector connects to the display
19. HDTV Resolution max.: 4096x2560 Pixel, 60Hz
20. HDTV Standard: Ultra HD 8K
21. Plug and play, no software to be installed

Specification

Technical	
HDMI™ Compliance	HDMI™ 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	Up to 48Gbps
Video Resolution	Up to 8K@60Hz YUV 4:4:4, 8K@30Hz, 4K@120Hz
Color Space	YUV 4:4:4
Color Depth	8/10/12-bit
Audio Formats	LPCM, Dolby TrueHD, DTS-HD Master Audio, DSD
Transmission Distance	100ft / 150ft / 200ft / 250ft / 300ft. Depends on the length of the cable purchased.
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	1 × Source [HDMI™ Type A, 19-pin female]
Output	1 × Display [HDMI™ Type A, 19-pin female]

Specifications

Mechanical	
Outer Diameter	4.8mm
Cable Color	Black
Conductor	Optical Fiber + Tinned Copper
Connector Color	Gold-plated
Jacket	PVC
Connector Casing	Metal Enclosure
Chip	Optoelectronic conversion chip
Power Supply	Non external power required
Applicable Devices	Camera, Computer, DVD Player, TV box, HDTV, Projector, Home Theater, Multimedia, Monitor
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20% - 80% (relative humidity, non-condensing)
Storage Humidity	10% - 90% (relative humidity, non-condensing)

Application Example



Source connector
of the AOC cable



Signal Source Devices



DVD or Blu-ray
Player



Laptop



Game Console



Camera



Display connector
of the AOC cable



Display Devices



HDTV



Monitor



Projector



Note: When wiring and connecting, be sure to connect the Source connector to the signal source device and the Display connector to the display device. Don't get it backwards.

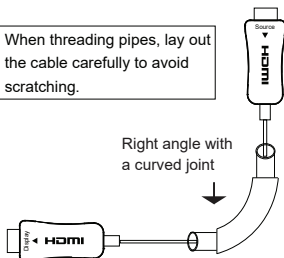


The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

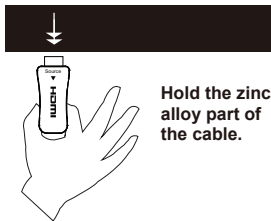
Wiring Precautions

- When threading pipes at a 90° angle, please use a right angle with a curved joint, as shown in the following figure.

When threading pipes, lay out the cable carefully to avoid scratching.



- When plugging/unplugging, please hold the zinc alloy part of the cable and do not pull the cable body.



- When threading pipes, it is suggested to lay out the cable in a slot. Please do not forcefully pull, twist, or knot the cable.



⊗ No Twisting



⊗ No Knotting

- Please do not beat, heavily impact, or smash the connector to avoid damaging the chip.



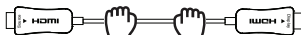
⊗ No Beating



⊗ No Smashing

- The tensile force does not exceed 35kg. Please do not pull the cable forcefully during wiring.

← The tensile force does not exceed 35kg. →





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