

HDMI™ AOC Hybrid Fiber Optic Cable

UHD 8K60, 5-100m



User Manual

VER 1.0

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

- ☆ Compliant with HDCP 2.3 specifications
- ☆ Support video resolution up to 8K@60Hz YUV 4:4:4, 8K@30Hz, 4K@120Hz, as specified in HDMI 2.1
- ☆ Data transfer rates up to 48Gbps
- ☆ Support VRR, ALLM, QMS, QFT, SBTM
- ☆ HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through
- ☆ Extend video and audio signals up to 5-100m (16-328ft)
- ☆ Support 3D format
- ☆ High dynamic range (HDR) video for expansive contrast ratio and color accuracy
- ☆ Hybrid construction using both copper and fiber to ensure long-distance lossless transmission, flexible and convenient wiring, and no need for external power supply
- ☆ With high-performance photoelectric conversion chip, the signal transmission is stable and reliable
- ☆ Gold-plated connectors and nylon-braided PVC for best plug resistance and longevity
- ☆ Support CEC function
- ☆ Support Lip Sync (Audio/Video synchronisation)
- ☆ Audio formats: LPCM, Dolby TrueHD, DTS-HD Master Audio, DSD
- ☆ Support 8-channel LPCM, 192kHz, 24-bit audio capability
- ☆ Support Blu-ray Disc and HD DVD audio and video
- ☆ With double shielding
- ☆ The source connector connects to the source device, and the display connector connects to the display device
- ☆ HDTV Resolution max.: 4096x2560 Pixel, 60Hz
- ☆ HDTV Standard: Ultra HD 8K
- ☆ Plug and play, no software to be installed

Product Specifications

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 Depth	8/10/12-bit
Color Space	YUV 4:4:4
HDMI Audio Format	LPCM, Dolby TrueHD, DTS-HD Master Audio, DSD
Transmission Distance	5m / 10m / 15m / 20m / 25m / 30m / 35m / 40m / 50m / 60m / 70m / 80m / 90m / 100m
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]
Mechanical	
Outer Diameter	4.8mm
Cable Color	Black
Conductor	Optical Fiber + Tinned Copper
Chip	Optoelectronic conversion chip
Jacket	PVC
Connector Casing	Metal Enclosure
Connector Color	Gold-plated
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
Relative Humidity	20%~90% RH (non-condensing)

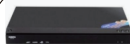
Connection Instructions



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.

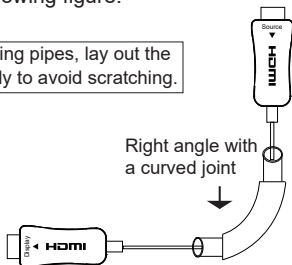
HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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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.



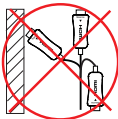
- When threading pipes, it is suggested to lay out the cable in a slot. Please do not forcefully pull, twist, or knot the cable.
- Please do not beat, heavily impact, or smash the connector to avoid damaging the chip.



No Twisting



No Knotting



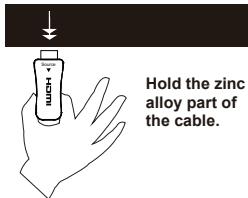
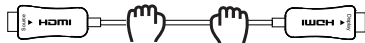
No Beating



No Smashing

- The tensile force does not exceed 35kg. Please do not pull the cable forcefully during wiring.
- When plugging/unplugging, please hold the zinc alloy part of the cable and do not pull the cable body.

← The tensile force does not exceed 35kg. →



Hold the zinc alloy part of the cable.