



Prestel HH21-MMXXXA

Armored HDMITM AOC
Hybrid Fiber Optic Cable
UHD 8K60, 5-100m



USER MANUAL

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

This armored HDMI™ UHD hybrid active optical cable (AOC) can convert 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.

A thick armor protection layer is adopted to address the pain points of traditional fiber-optic HDMI™ cables, which are not resistant to tension, pressure, and are not resistant to being chewed when used outdoors. 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 video resolution of up to 8K@60Hz 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.

Product Features

- ☆ Compliant with HDCP 2.3 specifications
- ☆ Support video resolution up to 8K@60Hz YUV 4:4:4, as specified in HDMI™ 2.1
- ☆ Data transfer rates up to 48Gbps
- ☆ Extend video and audio signals up to 5-100m (16-328ft)
- ☆ HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through
- ☆ 7.1CH LPCM, Dolby TrueHD and DTS-HD Master Audio transmission
- ☆ Support 3D format
- ☆ Metal armor + nylon wire + optical fiber + copper cable for lossless long-distance transmission, flexible and convenient wiring, and no need for external power supply
- ☆ Multi-layer shielding for stable, low-latency performance, supporting conduit installation
- ☆ Adopts Germany's Silicon Line 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)
- ☆ Support Blu-ray Disc and HD DVD audio and video
- ☆ The source connector connects to the source device, and the display connector connects to the display device
- ☆ 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 male]
Output	1× Display [HDMI™ Type A, 19-pin male]
Mechanical	
Outer Diameter	5.9mm
Cable Color	Black
Conductor	4-core 10-gigabit fiber + 7-core tinned copper conductor + nylon wire + metal armor
Chip	Silicon Line optoelectronic conversion chip
Jacket	PVC
Connector Casing	Aluminium Alloy 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
Operating Humidity	20%~80% (Relative Humidity, non-condensing)
Storage Humidity	10%~90% (Relative Humidity, non-condensing)

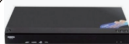
Connection Instructions



Source connector of the armored AOC cable



Signal Source Devices



DVD or Blu-ray Player



Laptop



Game Console



Camera



Display connector of the armored 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.

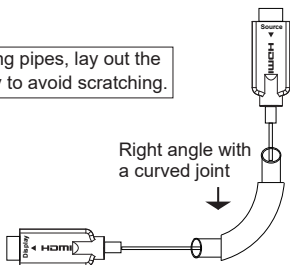


The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

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 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



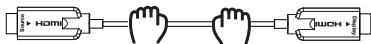
⊗ No Beating



⊗ No Smashing

- The tensile force does not exceed 10kg. 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 10kg. →



Hold the zinc alloy part of the cable.