

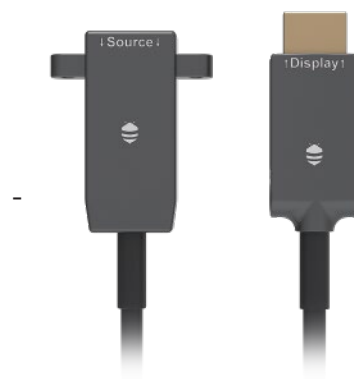
AHF-H20-xxM

HDMI 2.0 Active Optical Cable, Female to Male

Product Overview

Experience ultra-reliable long-distance HDMI transmission with the **AHF-H20** Active Optical Cable. Designed to deliver lossless and uncompressed HDMI 2.0 signals over distances of up to 100 meters, this cable supports signal up to 4K UHD/DCI video and audio without any delay or external power supply. With a high-speed transmission rate of 18Gbps, it supports resolutions up to 4096x2160 @ 60Hz, making it perfect for high-performance displays and any sink devices.

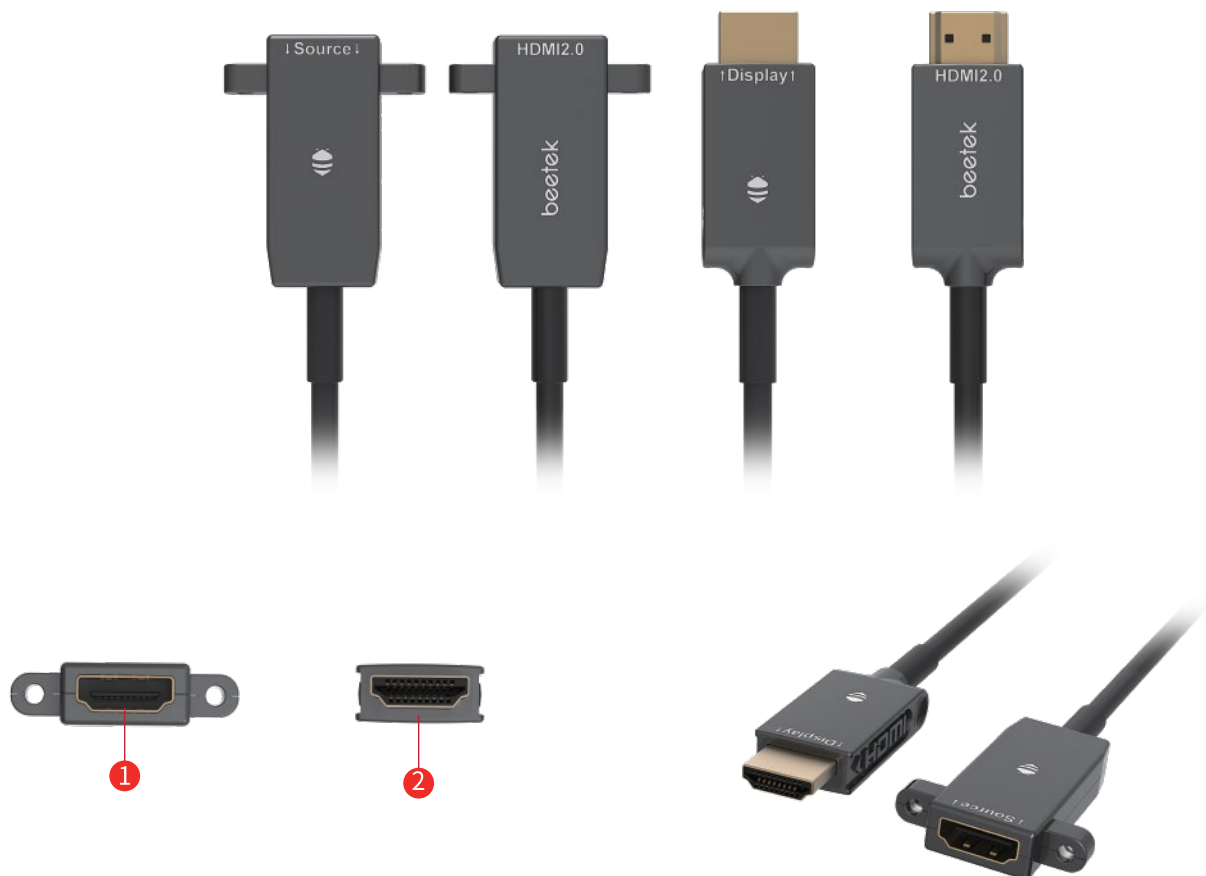
Beetek's patented chipset technology ensures zero signal loss, even over long-distance Active Optical Cable (AOC) transmissions. It guarantees flawless transmission of EDID and HDCP information without degradation, making it an ideal solution for challenging installations—such as under-table cable runs—where traditional HDMI couplers or EDID Management devices are typically required. This tested and proven solution is perfect for all types of Pro AV applications, offering unmatched reliability and performance.



Product Features

- Transmits HDMI 2.0 signal distances up to 100 Meters (330 meters).
- It delivers a transmission rate of 18Gbps and 3-Channel 600 MHz Bandwidth.
- Supports video resolution up to 4096x2160 at 60Hz 4:4:4, 16-Bit max depth Color.
- Supports HDCP 2.3, HDR 10, ARC, CEC.
- It operates with a passive HDMI 2.0 cable on the source side and doesn't need an additional power source.
- Lossless, Uncompressed and Zero-Delay signal transmission, restores original signal.
- Made with multi-mode OM3 Fiber and 7 Core multi strand copper wire.
- Constructed with PVC material sheath, Zinc alloy Housing Head and Gold-Plated copper shell connectors.
- Suitable for Meeting spaces, Auditoriums, Classrooms solutions and other applications.
- Designed with ESD Protection and Anti-Jamming technology.

Product Views



Number	Name	Number	Name
1	HDMI Female	2	HDMI Type A Male

Product Specifications

Signal capabilities

Resolution	4096x2160@60Hz, 3840x2160@60Hz
Frame Rates	24,25,30,50 or 60 FPS
Chroma Sub-sampling	RGB 4:4:4, YUV 4:4:4, YUV 4:2:2, YUV 4:2:0
Color Bit Depth	8-Bit to 16-Bit Maximum
Signal Type	HDMI 2.0, HDMI 1.4, USB-HDMI
Maximum Video Data Rate	18 Gbps (6 Gbps per color)

Video input – source side

Connector	HDMI Female type A
Connector Dimension	61.45*36*10.1mm
Connector Structure	Solid Zinc Alloy Mold
Connector Gold Plating	5um Gold Plated Shell, 50um Gold Plated connector
Mounting Option	Wall Plate lock Screw Hole and Wall Plate Included

Interconnection cable

Cable jacket material	80p pvc
Jacket color	Black
Cable diameter	5.0 mm
Fiber type	Multi-mode om3-300 * 4
Fiber wavelength	850~1300nm
Copper wire material	7 multi-strand tinned copper wires
Copper wire specification	24awg*1, 26awg*1, 28awg*3, 30awg*2
Technical characteristic	Photoelectric conversion technology
Cable structure	Optical fiber + inner jacket + kevlar + copper wire + aluminum foil +outer jacket
Optical module lifetime	100,000 hours

Video - output side

Connector	Hdmi male type a
Connector dimension	65.2*19.5*9mm
Connector structure	Solid zinc alloy mold
Connector gold plating	5um gold plated shell, 50um gold plated connector
Power from receiver (tx)	Yes

Video specifications

Edid	Pass-through
Hdcp	Hdcp 2.3
Hdr	Hdr10+
Cec	Yes
Arc	Yes

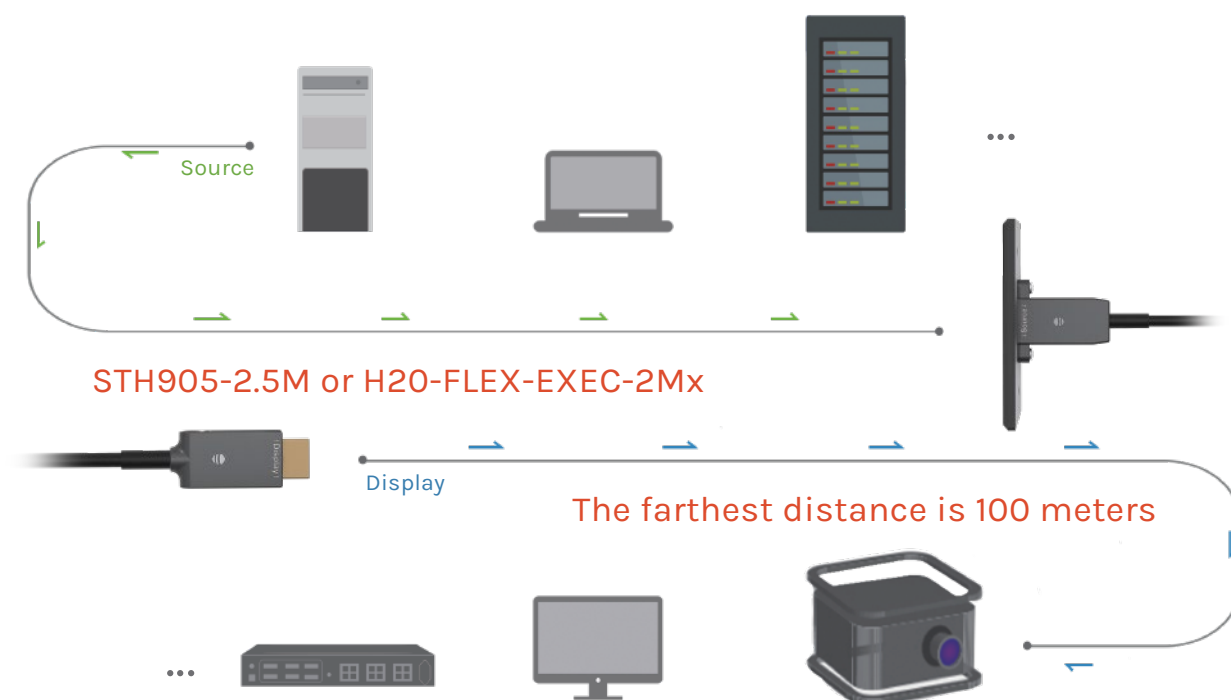
Video specifications

3d	Yes
Ddc	Yes
Color space	Xvyc
Clock bandwidth	600mhz*3
Pixel re-clocking chip	Yes
Compression	uncompressed
Delay	Zero-delay

Other specifications

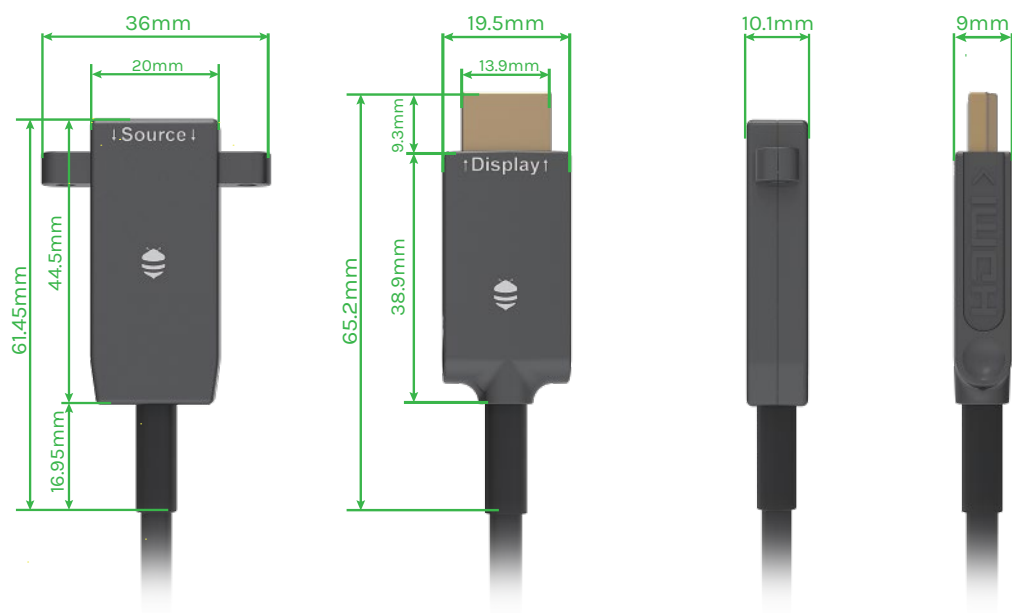
ESD Protection	Yes
Anti-Jamming	Yes
Hot Swappable	Yes
Tensile Strength	≤200N
Compressive Strength	1000N/10CM
Minimum Bend Radius	Dynamic > 10D
Operating Temperature	-30-80℃

Application Diagram



* AHF-H20-xxM is a unidirectional active optical cable, so please determine the correct direction before deploying cable.
(Connect the "Source" end to the signal output device and the "Display" end to the display device.)

Product Size



HDMI 2.0 Active Optical Cable(A(F) To A)

- Connector Size (HDMI Female) : 61.45*36*10.1mm
- Connector Size (HDMI Type A Male) : 65.2*19.5*9mm
- Cable Diameter: 5.0mm



Full catalog



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