

## HDMI2.0 Active Optical Cable (UHT)

### OVERVIEW

Unive UHT is an HDMI 2.0 compliant Active Optical Cable (AOC) which can transmit 4K full UHD (4K@60Hz 4:4:4) image up to 50 meters without any error. It supports bandwidth of 18Gbps (6Gbps per channel) up to 37.5Gbps (12.5Gbps per channel).

UHT uses the latest POF (Plastic Optical Fiber) technology which is thinner, lighter, and more flexible than typical AOC with GOF (Glass Optical Fiber) and copper cable. It can also be installed in tight in-wall spaces with ease.

POF technology reduces the risk of EMI and RFI. It is ideal for high interference environments such as data centers, operating rooms and manufacturing facilities where high resolution and consistent display are required. Also POF is much stronger than GOF and better suited for environment with high vibration.

With UHT AOC, users can take advantage of the latest features in HDMI2.0 technology including HDCP2.2 and HDR.

Unive's patented passive align technology enables high reliability production of HDMI2.0 AOC.



### FEATURES

- HDMI 2.0 compliant
- Supports 2160p (4K@60Hz Chroma4:4:4), 1080p 3D, 21:9 (True cinema), Multi stream video and audio, deep color x.v.Color™, Dolby True HD DTS-HD Master Audio
- HDCP 2.2
- Data rate: 18Gbps (6Gbps per channel) up to 37.5Gbps (12.5Gbps per channel)
- HDR (High Dynamic Range)
- Resistant to EMI/RFI
- Small and flexible cable for easy installation
- Plug and Play
- No external power is needed for most devices (External USB 5V may be required in some applications)
- 5mm minimum bend radius
- UL- Plenum cable, Non UL cable

### APPLICATIONS

- Blu-ray player, PC, Laptop, set top box, projector, UHD TV
- Conference room video system, digital home theater, medical display system
- Data center, digital signage for outdoor advertising, factory automation systems

## SPECIFICATIONS

Parameter	Min.	Typ.	Max	Unit
<b>ABSOLUTE MAXIMUM RATINGS</b>				
Supply Voltage	-0.5		6	V
Storage Temperature	-20		70	°C
Relative Humidity	5		85	%
Electrostatic Discharge Immunity (Air: 8kV, Contact: 6kV)	B			Class
<b>RECOMMENDED OPERATING CONDITIONS</b>				
Supply Voltage*	4.75	5.0	5.25	V
Operating Temperature	0		50	°C
<b>TRANSMITTER ELECTRICAL CHARACTERISTICS</b>				
Operating Current	90	102	115	mA
Power Consumption	0.45	0.51	0.575	W
<b>RECEIVER ELECTRICAL CHARACTERISTICS</b>				
Operating Current	120	135	150	mA
Power Consumption	0.60	0.675	0.75	W

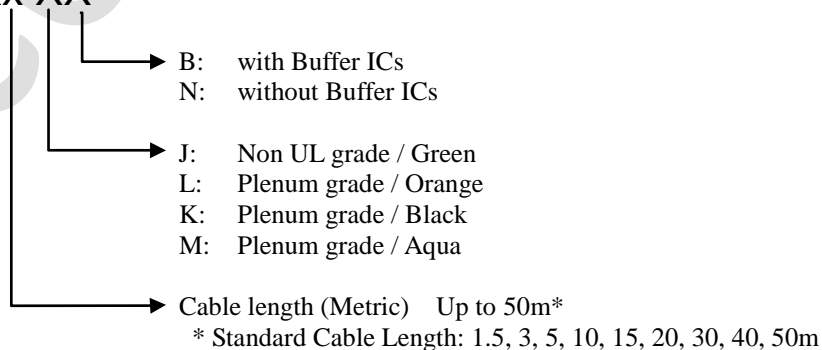
\* All power Supplied from USB port(+5V)

### PHYSICAL CHARACTERISTICS

Parameter	Value	Unit
<b>Cable Assembly</b>		
Cable Type	Hybrid Cable Plastic Optical Fibers and Electrical Wires	
Cable Dimensions (W x H)	5.10 x 2.90	mm
Cable Color	Non-UL: green    Plenum: orange, black, aqua	
Connector Pull Strength	10	Kg
Minimum Bend radius	5	mm
Case Material	PC(Polycarbonate)	

## ORDERING INFORMATION

UHT-xx XX

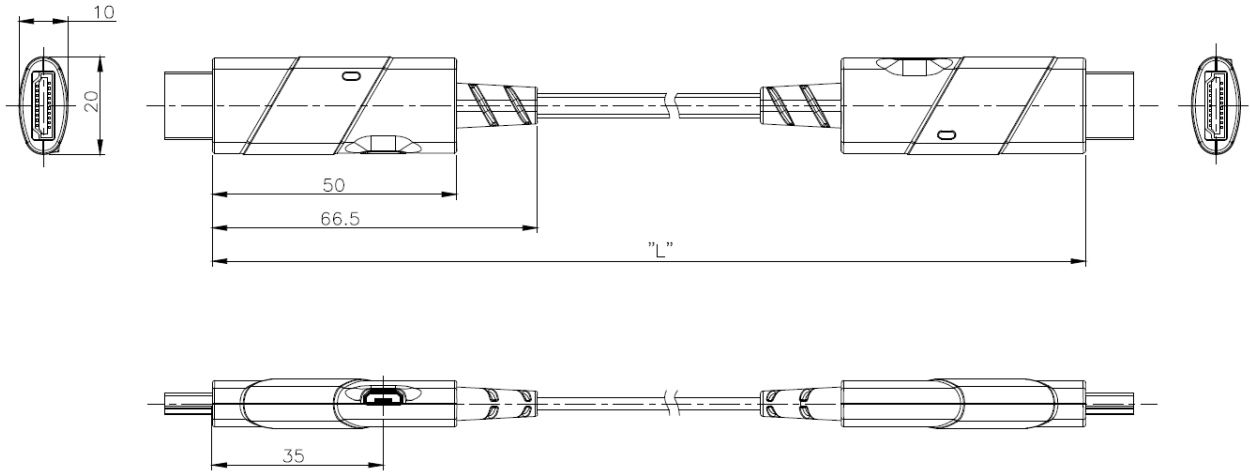


**PRODUCT DIMENSIONS**

Unit: mm

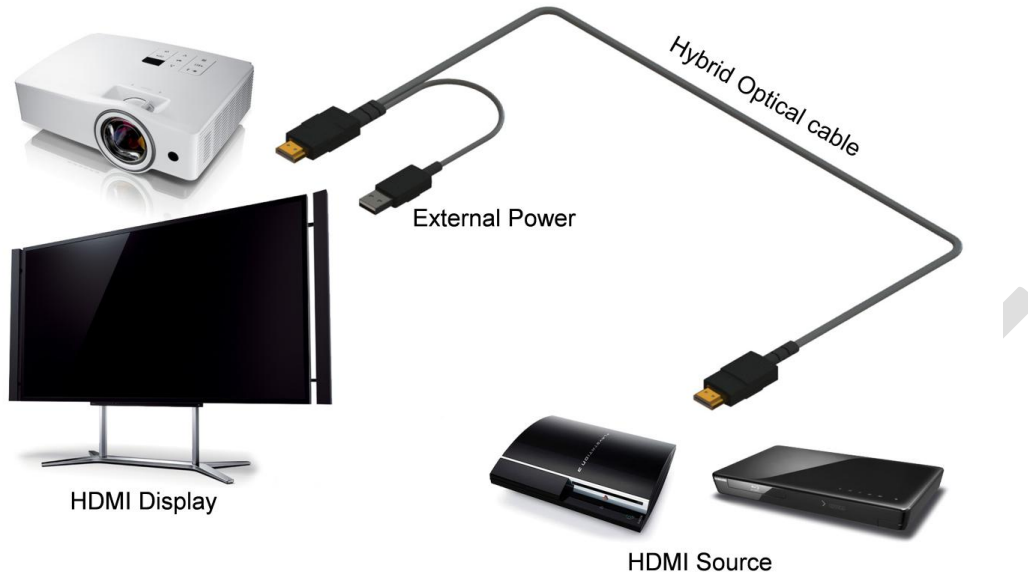
**Transmitter Connector**

**Receiver Connector**



## CONNECTION DIAGRAM

### ● Cable Connection



1. Plug in TX connector labeled SOURCE to HDMI port of source device such as Blu-ray player.
2. Plug in RX connector labeled DISPLAY to HDMI port of display device such as monitor or projector.
3. Plug in USB connector\* labeled USB to USB port on the display device.
4. Follow the same instruction to connect tablet, PC and other source device to projector or other display.

\* LED light indicator

- 1) Strong: No external power needed
- 2) Dim: External USB 5V power needed (connect to only one device of display or source)

## Product Inquiry

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