



YDSAOC-10G-USB32-AV-CM-CM

Audio and Video 10Gbps Active Fiber Optical USB 3.2 Extension Cable

Overview

YDSAOC-10G-USB32-AV-CM-CM is an **Audio and Video USB 3.2 Gen 2 Active Optical Cable (AOC)**, also known as a Fiber Optic USB Cable, that combines fiber optic technology with USB-C connectivity. It is engineered to overcome the distance, interference, and bandwidth limitations of traditional copper cables while delivering fast, reliable, high-performance connections.



Key Features

High Bandwidth — Compliant with the latest USB 3.2 Gen 2 standard, supporting data rates up to 10Gbps SuperSpeed

Premium Resolution — Supports 8K at 30Hz and 4K at 120Hz for high-fidelity video

Long-Distance Transmission — Delivers lossless signals over extended distances (up to 15 meters depending on configuration)

Backward Compatible — Works with USB 3.0 (5Gbps), USB 2.0, and USB 1.1

Power Delivery — Supports fast charging of 9–20V @ 3A (up to 60W) to the remote device

Easy Installation — True plug-and-play on both ends with a unidirectional design; no external drivers or software required

Nearly Zero EMI/RFI — High resistance to electromagnetic interference for a safe, radiation-free environment

Hybrid Construction — Fiber/copper hybrid design requires no external power; features a zinc-alloy housing with corrosion-resistant gold-plated connectors

Customizable — Available in custom lengths, with custom logo and packaging options (OEM/ODM supported)

Applications

The cable suits a broad range of demanding use cases:

- ◆ Video conferencing systems (e.g., Logitech Rally, Yealink MeetingBar, Poly Studio, Bose Videobar)
- ◆ Professional AV and digital signage (interactive displays, LED video walls)
- ◆ Medical imaging and healthcare equipment
- ◆ Industrial vision and machine vision cameras
- ◆ Broadcasting and live streaming
- ◆ VR/AR headsets and gaming setups
- ◆ USB-C docking stations and external storage
- ◆ Home theater, projectors, set-top boxes, and security monitoring

Best For

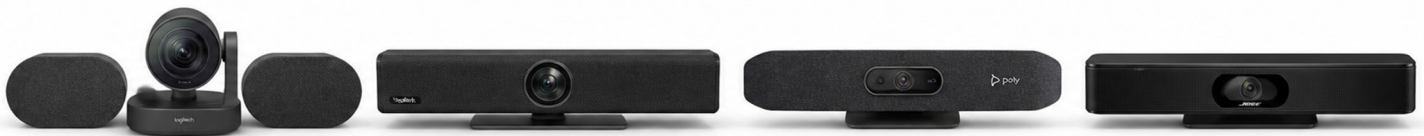
Environments that require extended data transmission distances without on-site power and demand high reliability in electromagnetically complex settings — where conventional copper cables reach their limits.

YDSAOC



Key Specifications

YDSAOC Model Number	YDSAOC-10G-USB32-AV-CM-CM
Order Part Numbers	YDSAOC-10G-USB32-AV-CM-CM-1003 YDSAOC-10G-USB32-AV-CM-CM-2006 YDSAOC-10G-USB32-AV-CM-CM-50015 YDSAOC-10G-USB32-AV-CM-CM-100030 YDSAOC-10G-USB32-AV-CM-CM-150045
Length	1m(3ft), 2m(6ft), 5m(15ft), 10m(30t), 15m(45ft)
Maximum Support Length	up to 15m(45ft)
Maximum Data Speed	up to 10Gbps
Full Feature AV Functions	HPD, HDCP, HDR
Maximum Resolutions	8K 30Hz and 4K 120Hz
Connector A	USB 3.2 Type-C Male
Connector B	USB 3.2 Type-C Male
Display Port Protocols	4 Lane DP2.1, 2 Lane DP1.4
USB Protocols	USB 3.2 Gen 2, USB 3.1 Gen 2, USB 3.0, USB 2.0
Support Functions	Data Transfer, Power Transfer
Cable Diameter	6.0mm
Cable Jacket Type	TPE
Cable Color	Black
AOC Constructions	Hybrid, 6x Optical Fiber, 8x Copper Wire
Minimum Bending Radius	50mm
Operating Temperature	0°C to 70°C
Storage Temperature	- 40°C to 85°C
Installation Direction	Bidirectional (Data), One Way Direction (Video)
Power Connect	No External Power is Required
Support Fast Charging	Maximum PD 60W, or PD 100W < 5m(15ft)



logitech
RALLY

Yealink
MEETINGBAR

poly
STUDIO

BOSE
VIDEOBAR

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Why Choose Fiber Optic USB-C Cable

Long Range

Fiber optic for stable long-distance
signal transmission

Full-Featured USB-C Active Optical Cable

15m

Full-Featured USB-C Copper Cable

2m

Full-Featured USB-C Copper Cable

5m

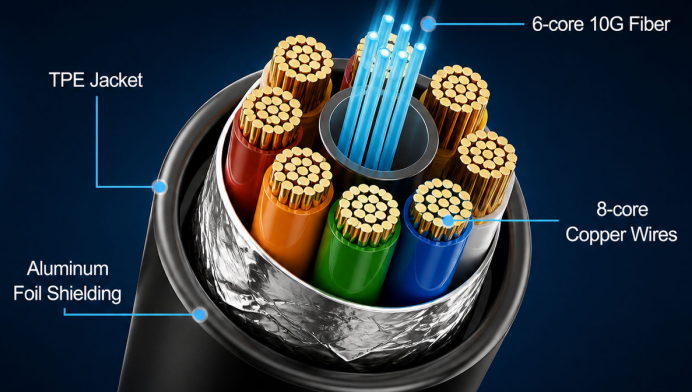
Power-Only USB-C Copper Cable

2m



10G Fiber: Zero Radiation Anti-Interference

Hybrid fiber-copper design for
stable, interference-free signals.



Note: Internal structure is a render, refer to actual product.

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Widely Compatible with USB-C Devices



Machine Vision



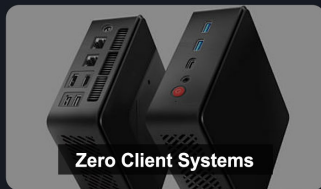
Industrial Printing



Security & Surveillance



Digital Signage & Video Walls



Zero Client Systems



Remote Storage Systems

10Gbps High-Speed Transfer

Tested Type-C transfer speed up to 957MB/s.
Transfer a 1GB file in just ~1.1 seconds.



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Faster Scanning, Modeling & Tracking for Depth Cameras

Supports depth cameras, stereo cameras, and is widely compatible with Intel, Microsoft, ZED and other major depth cameras.

8K Ultra HD Screen Mirroring

Up to 8K@60Hz, 4K@144Hz/120Hz Resolution



VR Tethering · Faster No Frame Drops

Longer, lighter, thinner than copper cables.

Supports Oculus Quest, HTC VIVE, PICO & more VR devices



PD 60W Fast Charging

60W PD @10m, 40W PD @15m, E-marker Equipped



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Why Choose Fiber Optic Cables?

■ USB3.2 Fast Speed:

10Gbps high-bandwidth transfer

■ Long-Distance Stable:

No distance interference; zero-latency, anti-interference signal

■ Zero Radiation & Anti-Interference:

Resists EMI, fiber emits no radiation

■ Ultra-Stable & Low Latency:

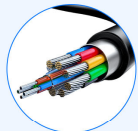
Micro-level photoelectric conversion ensures zero delay



Zinc Alloy Shell



Sturdy Connector



Tinned Copper Core



Flexible Cable Body

Tear-Resistant & Durable



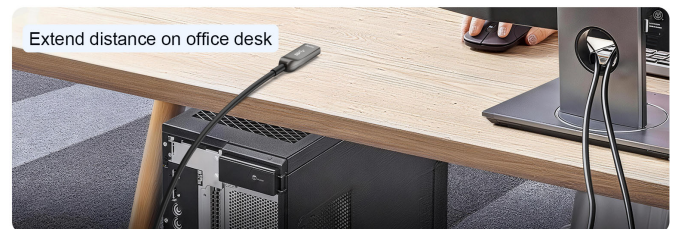
Connect to printer



Connect to camera



Extend distance for digital devices



Extend distance on office desk



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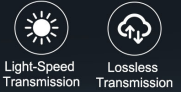
Tethered Shooting · Stable 5-8m Fast Transfer

Supports 10Gbps high bandwidth for stable, uninterrupted shooting. Widely compatible with professional cameras including Sony, Canon, Nikon, Fujifilm, and Hasselblad



Max Fiber Transmission Length: 5-8m

Ordinary copper cables cannot exceed 5m



TPE Cable Body

Smooth, flexible & elastic



10G Optical Fiber

Lossless signal transmission



High-Speed Transmission

10Gbps high bandwidth



High Power

For phones, laptops, tablets & game consoles

Lightweight & Flexible for Easy Use

The thin, soft optical fiber avoids the risk of VR headset slipping caused by heavy cables, ensuring a lighter and more comfortable VR experience.



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Professional / Industrial Applications



Machine Vision
Camera Links



Medical Imaging
Equipment



DVR & Game Console
Monitoring

YDSAOC



Gaming PCs



Virtual Reality Headsets



Hard Drives



Mobile Terminals



Touch Screens



Webcams



Scanners



Access Control Systems

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Specifications

Product Name: Full-Featured Type-C Optical Fiber Data Cable
(Type-C Active Optical Cable, AOC)

Connector Type: Type-C Male to Type-C Male

Adaptive Video Transmission Support: 4-lane DP2.1 + USB2.0
OR 2-lane DP1.4 + USB3.2 Gen2

Supported Resolutions: 8K@60Hz / 4K@144Hz / 4K@120Hz

Max Data Rate: 10Gbps

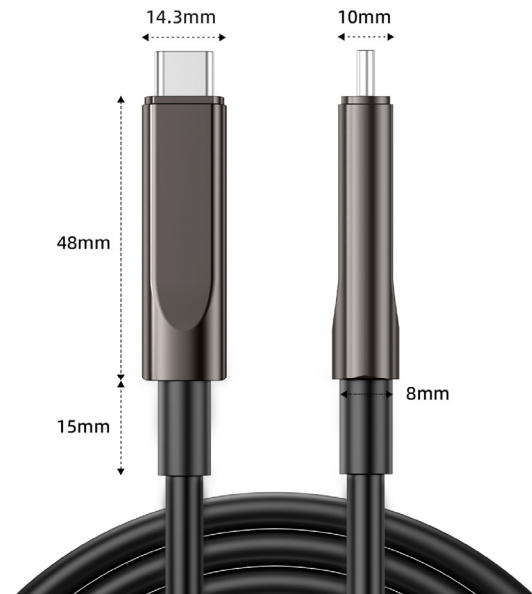
Power Delivery: Supports PD 60W Fast Charging

Core Material: Opto-Electrical Hybrid Cable

Cable Length: 15m (customizable)

Weight (with package): 1180g

PS: All product dimensions on this page are measured manually and may have minor deviations.



COMMERCIAL / AV APPLICATIONS



Digital Signage



LED Signboards



Projector



Home Theater / Blu-ray / 3D Video



Broadcast Stations
(Radio & TV)



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FIBER OPTIC TECHNOLOGY
FOR A MORE CONNECTED TOMORROW



LONGER
FARTHER
CLEARER
TOGETHER

Audio and Video 10Gbps Active Fiber Optical USB 3.2 Extension Cable

MODEL: YDSAOC-10G-USB32-AV-CM-CM

STYLE: Type-C Male → Type-C Male

KEY FEATURES



High Bandwidth

USB 3.2 Gen 2, up to 10Gbps
SuperSpeed



Power Delivery

9-20V @ 3A (up to 60W)



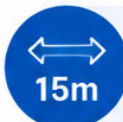
Premium Resolution

8K at 30Hz and 4K at 120Hz



Easy Installation

Plug-and-play, no drivers needed



Long-Distance

Lossless signals up to 15 meters



EMI/RFI Resistance

Nearly zero electromagnetic
interference



Backward Compatible

USB 3.0, 2.0, and 1.1



Hybrid Construction

Fiber/copper hybrid, no external
power

TYPICAL APPLICATIONS



Video
conferencing



Professional
AV



Medical
imaging



Industrial
vision



Broadcasting



VR/AR
gaming



USB-C
docking



Home
theater

PROFESSIONAL CONNECTIONS FOR A BRIGHTER TOMORROW

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Row 1 - Legacy/USB 2.0 Connectors



USB Type A



USB Type B



USB Mini A



USB Mini B



USB Micro A



USB Micro B

Row 2 - Modern Connectors



USB Type C



USB Micro B 3.0



USB 3.0 Type A



USB 3.0 Type B



USB 3.0 Micro B

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Applications of Active Optical Cable (AOC)

High-speed, long-distance connectivity across diverse industries.



1 Traffic Monitoring

Uninterrupted connectivity for real-time traffic data, safety and efficiency.



2 Security & Surveillance

HD/4K/8K video support, effective monitoring without downtime.



3 Control Rooms

Ultra-high bandwidth for instantaneous data and video switching.



4 Healthcare

EMI/RFI immunity ensures reliable transmission in medical environments.



5 Education

Connectivity in large lecture halls, overcoming copper cable limits.



6 Digital Signage

High-quality displays with consistent transmission of information.



7 Conference Rooms

Plug-and-play design makes connectivity easy for presenters.



8 Government Campuses

Thinner and more flexible than copper, reducing cable clutter.



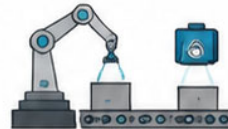
9 USB4 Applications

Extends reach while maintaining power and signal integrity.



10 Audio Visual Entertainment

Superior signal quality for home theaters and gaming.



11 Industrial & Machine Vision

Durable, high-performance for automated inspection.



12 Broadcast Systems

High bandwidth and low latency for seamless content delivery.



13 Simulation Systems

Real-time transmission for realistic training.



14 Data Centers & HPC

Pivotal for high-performance computing and extensive configurations.



15 Consumer Electronics & IT

High-res displays, VR devices, and high-bandwidth apps.



16 Aerospace, Defense & Automotive

High-speed, robust connectivity for critical sectors.

Core Benefits



Reliability



Long Distance



EMI Immunity



High Bandwidth



Flexible Installation



Power Delivery



Plug-and-Play