



YDSAOC-10G-USB32-CM-CM 10Gbps Active Fiber Optical USB 3.2 Extension Cable

Overview

YDSAOC-10G-USB32-CM-CM is a USB 3.2 Gen 2 Type-C to Type-C Active Optical Cable (AOC) engineered for high-bandwidth connectivity. By combining fiber optic technology with USB connectivity, it overcomes the distance and interference limitations of traditional copper cables while delivering reliable, high-performance connections. It is also referred to as a USB-C AOC, Fiber Optic USB Cable, or USB Active Optical Cable.



Key Features

Performance & Compatibility

- ♦ **High Bandwidth:** Complies with USB 3.2 Gen 2 standards, delivering up to 10Gbps Super-Speed data transmission
- ♦ **Backward Compatible:** Supports USB 3.0 @ 5Gbps, and USB 2.0 within 5m, and USB 1.1 within 5m
- ♦ **Long-Distance Transmission:** Delivers lossless signals over extended distances (up to 30m for the main model; up to 8m for the VR-tailored variant)

Power & Design

- ♦ **Power Delivery:** Supports 5V/900mA (up to 60W with 9–20V@3A fast charging on the VR variant)
- ♦ **Easy Installation:** Plug-and-play on both sides with a unidirectional design—no complicated setup required
- ♦ **Durable Construction:** Zinc-alloy housing with corrosion-resistant gold-plated connectors
- ♦ **No External Power Needed:** Hybrid fiber/copper design operates without on-site power

Environment & Customization

- ♦ **EMI Resistance:** High resistance to electromagnetic interference for a safe, radiation-free environment with a practically zero EMI/RFI profile
- ♦ **Customizable:** Available in custom lengths, with optional custom logo and packaging



ACTIVE OPTICAL CABLES

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Applications

The cable suits a broad range of demanding use cases:

- ♦ **Professional/Industrial:** Machine vision camera links, medical imaging equipment, DVR & game console monitoring
- ♦ **Commercial/AV:** Digital signage, LED signboards, projectors, home theater/Blu-ray/3D video, broadcast stations (radio & TV)
- ♦ **Collaboration:** Conference room & video conferencing equipment
- ♦ **Security & Transport:** Security monitoring systems, airplane on-board video systems
- ♦ **Consumer/VR:** Gaming PCs, virtual reality headsets, hard drives, mobile terminals, touch screens, webcams, scanners, and access control systems

Best For

This cable is ideal for environments requiring **extended data transmission distances without on-site power**, offering high reliability in electromagnetically complex settings. Specific strengths include:

- ♦ Zero EMI/RFI profile for flawless performance
- ♦ Hybrid fiber/copper design eliminating the need for external power
- ♦ Seamless plug-and-play compatibility with modern USB Type-C peripherals

YDSAOC



Gaming PCs



Virtual Reality Headsets



Hard Drives



Mobile Terminals



Touch Screens



Webcams



Scanners



Access Control Systems

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Key Specifications

YDSAOC Model Number	YDSAOC-10G-USB32-CM-CM
Order Part Numbers	YDSAOC-10G-USB32-CM-CM-1003 YDSAOC-10G-USB32-CM-CM-2006 YDSAOC-10G-USB32-CM-CM-50015 YDSAOC-10G-USB32-CM-CM-100030 YDSAOC-10G-USB32-CM-CM-150045
Length	1m(3ft), 2m(6ft), 5m(15ft), 10m(30t), 15m(45ft)
Maximum Support Length	up to 30m(90ft) for main model, upto 8m for VR
Maximum Data Speed	up to 10Gbps
Connector A	USB 3.2 Type-C Male
Connector B	USB 3.2 Type-C Male
USB Protocols	USB 3.2 Gen 2, USB 3.1 Gen 2, USB 3.0, USB 2.0/1.1
Support Functions	Data Transfer, Power Transfer
Cable Diameter	4.6mm
Cable Jacket Type	TPE
Cable Color	Black
AOC Constructions	Hybrid, 2x Optical Fiber, 6x Copper Wire
Minimum Bending Radius	50mm
Operating Temperature	0°C to 70°C
Storage Temperature	-40°C to 85°C
Installation Direction	Bidirectional, No Check on Directions
Power Connect	No External Power is Required
Support Fast Charging	Maximum PD 60W, or PD 100W < 5m(15ft)

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Machine Vision Camera Links

Medical Imaging Equipment



DVR & Game Console Monitoring

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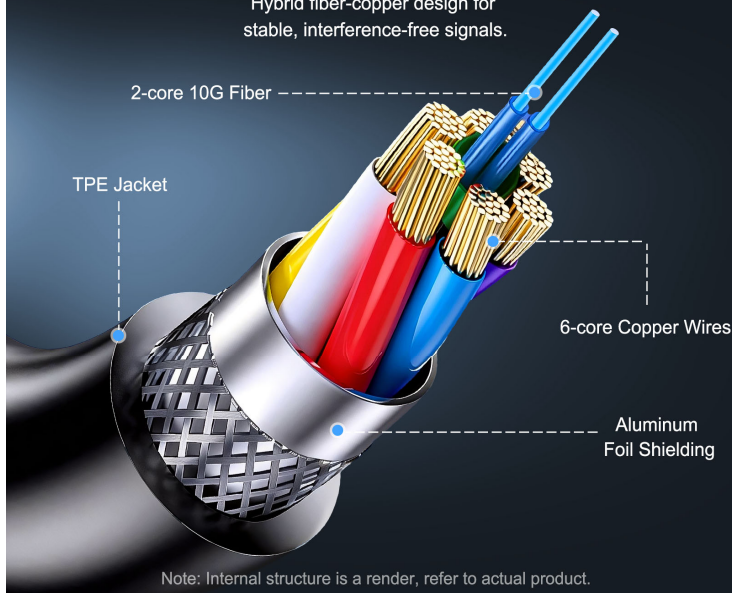
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10G Fiber: Zero Radiation Anti-Interference

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



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



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Product Specifications

Product Name: Fiber Optic Type-C Data Cable (USB3.2 Version)

Transfer Bandwidth: 10Gbps

Core Spec: 2-core 10G optical fiber + 6-core copper wires

Jacket Material: TPE

Shell Material: Zinc alloy

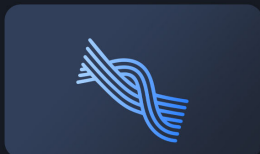
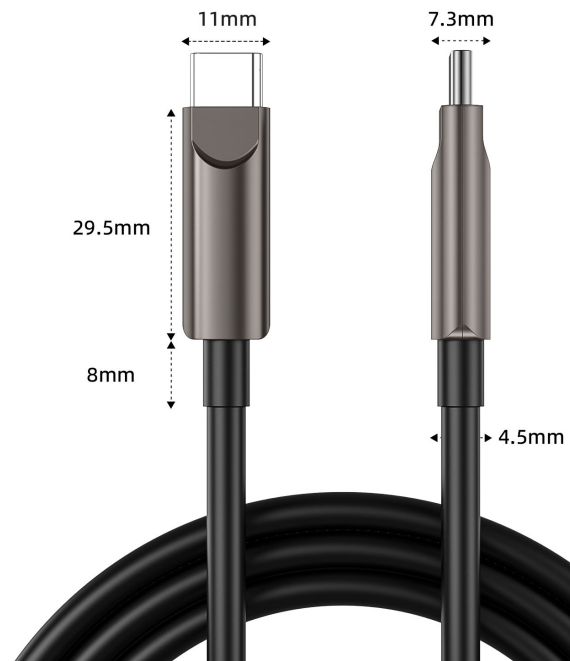
Charging Power: PD 60W

Length: 5m

Package Dimensions: 16.5*16*6cm

Weight (with box): 264g

PS: All product dimensions listed on this page are manually measured and may be subject to minor discrepancies.



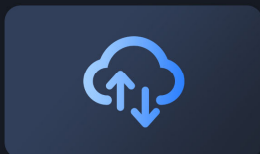
TPE Cable Body

Smooth, flexible & elastic



10G Optical Fiber

Lossless signal transmission



High-Speed Transmission

10Gbps high bandwidth



High Power

For phones, laptops, tablets & game consoles

10Gbps Ultra-Fast Transfer

Type-C real-world transfer speed up to 957MB/s,
1GB file transfer in ~1.1 seconds



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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.



VR Tethering - Faster No Frame Drops

Longer, lighter, thinner than copper cables.
Supports Oculus Quest, HTC VIVE, PICO & more VR devices



Max Fiber Transmission Length: 5-8m

Ordinary copper cables cannot exceed 5m



Light-Speed
Transmission



Lossless
Transmission



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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:

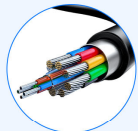
Micro-level photoelectric conversion ensures zero delay



Zinc Alloy Shell



Sturdy Connector



Tinned Copper Core



Flexible Cable Body

Tear-Resistant & Durable



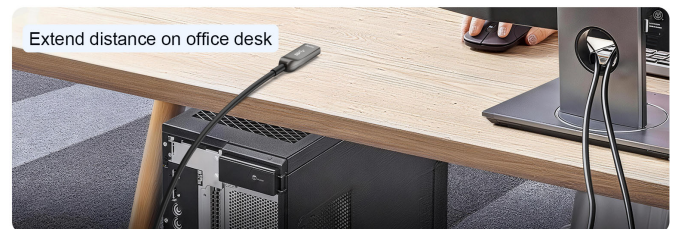
Connect to printer



Connect to camera



Extend distance for digital devices



Extend distance on office desk



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10Gbps Active Fiber Optical USB 3.2 Extension Cable

Model: YDSAOC-10G-USB32-CM-CM

OVERVIEW

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KEY SPECIFICATIONS & FEATURES



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APPLICATIONS



Professional / Industrial

Machine vision camera links, medical imaging equipment, DVR & game console monitoring



Commercial / AV

Digital signage, LED signboards, projectors, home theater / Blu-ray / 3D video, broadcast stations (radio & TV)



Collaboration

Conference room & video conferencing equipment



Security & Transport

Security monitoring systems, airplane on-board video systems



Consumer / VR

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BEST FOR



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COMMERCIAL / AV APPLICATIONS



Digital Signage

LED Signboards

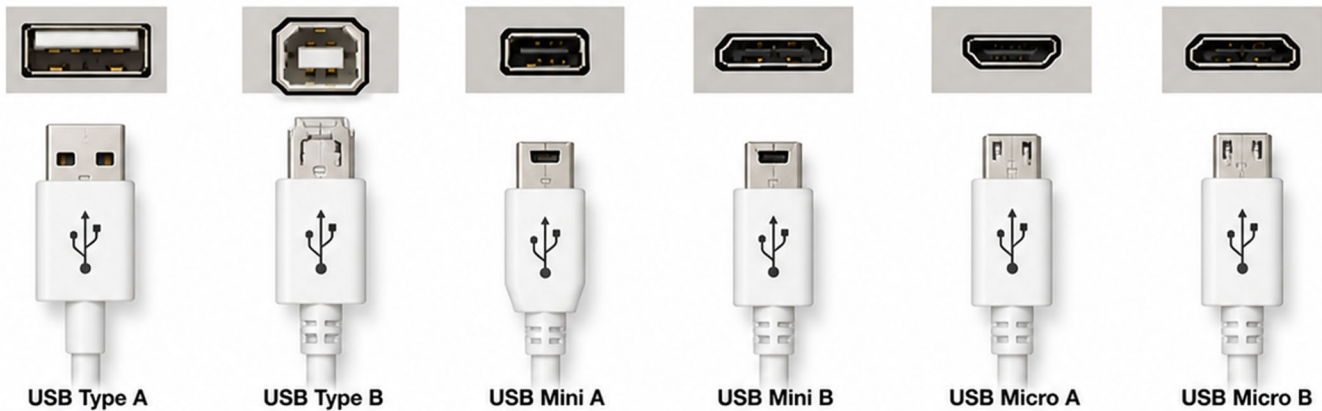
Projector

Home Theater / Blu-ray / 3D Video

Broadcast Stations
(Radio & TV)



Row 1 - Legacy/USB 2.0 Connectors



USB Type A

USB Type B

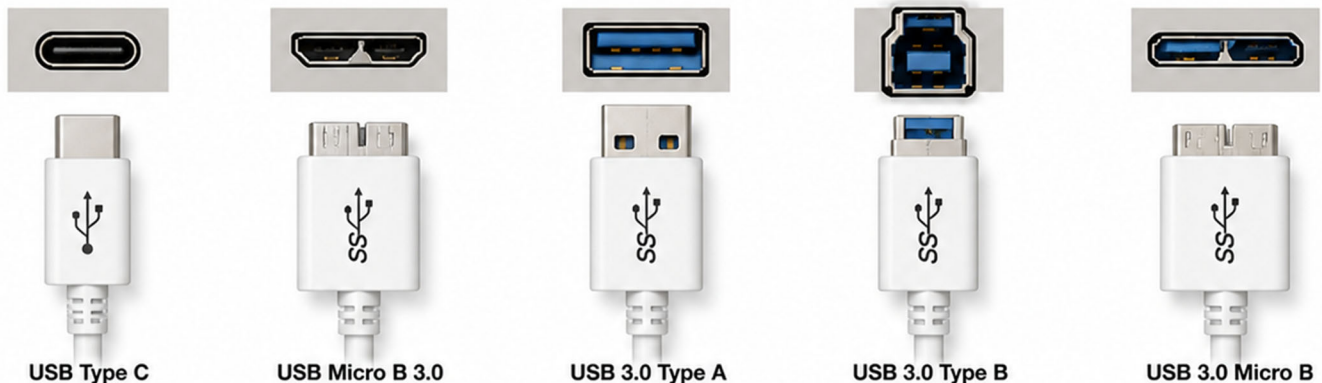
USB Mini A

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

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.



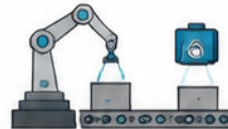
9 USB4 Applications

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