



YDSAOC-32G-MINIDP-M-M

32.4Gbps Active Fiber Optical Mini DisplayPort 1.4 Extension Cable

Overview

YDSAOC-32G-MINIDP-M-M is a high-performance **fiber active optical cable (AOC)** designed to transmit ultra-high-definition 8K video and audio signals over long distances. It connects Mini DisplayPort devices directly to monitors, projectors, TVs, and other display equipment.



Supported Resolutions

8K @ 30Hz, 4K @ 144Hz, 4K @ 60Hz, 4K @ 30Hz, 1080p, 1080i, and 720p.

Key Specifications

- ◆ **Connector type:** Mini DisplayPort 1.4 to Mini DisplayPort 1.4
- ◆ **Maximum length:** Up to 200 meters (600 ft)
- ◆ **Bandwidth:** 32.4 Gbps (HBR3)
- ◆ **Resolution support:** 8K (7680 × 4320)@30Hz, 4K@144Hz, 5K@30Hz, 1080P, 1080i, 720P
- ◆ **Compatibility:** Backward compatible with DisplayPort 1.4, and 1.2 devices

Core Features

- ◆ **8K Ultra HD support** with lossless, uncompressed transmission up to 200m without signal degradation
- ◆ **Plug-and-play** — no drivers or external power required (hybrid fiber/copper design powers over cable)
- ◆ **Minimal signal loss** — extremely low attenuation and near-zero EMI/RFI interference
- ◆ **Advanced video technology** — supports Dynamic HDR, eARC, VRR (gaming), ALLM, QMS, and QFT
- ◆ **High-quality audio** — up to 192kHz, 24-bit, uncompressed 5.1/7.1, Dolby lossless formats, and 32-channel audio
- ◆ **Robust construction** — zinc-alloy housing, corrosion-resistant gold-plated connectors, flexible thin design (4.8mm OD)
- ◆ **Customizable** — available in custom lengths, with custom logo and packaging options



ACTIVE OPTICAL CABLES

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Compatible Devices

Minimizes setup complexity by working with devices such as MacBook, iPad Pro, Dell XPS 15, and any DisplayPort-enabled phone — no driver installation needed.

Applications

- ◆ Home theaters and entertainment systems
- ◆ Professional AV, conference rooms, and video conferencing
- ◆ Digital signage and LED displays
- ◆ Medical imaging and healthcare equipment
- ◆ Machine vision / industrial automation
- ◆ Gaming and VR/AR setups
- ◆ Broadcasting and live streaming
- ◆ Security monitoring systems
- ◆ Airplane on-board video systems

Best For

Environments requiring **extended-distance transmission without on-site power**, offering high reliability even in electromagnetically complex or demanding conditions — such as medical facilities, live events, broadcasting, military, and shipboard installations.

YDSAOC



Home Theaters and Entertainment Systems



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Key Specifications

YDSAOC Model Number	YDSAOC-32G-MINIDP-M-M
Order Part Numbers	YDSAOC-32G-MINIDP-M-M-1003 YDSAOC-32G-MINIDP-M-M-50015 YDSAOC-32G-MINIDP-M-M-100030 YDSAOC-32G-MINIDP-M-M-5000150 YDSAOC-32G-MINIDP-M-M-10000300
Length	1m(3ft), 5m(15ft), 10m(30t), 50m(150ft), 100m(300ft)
Maximum Support Length	up to 200m(600ft)
Maximum Data Speed	up to 32.4Gbps (8.1Gbps per channel)
Full Feature AV Functions	HPD, HDCP2.2, HDCP, HDR
Maximum Resolutions	8K 60Hz, 4K 60Hz, 4K 30Hz, 1080p, 1080i, 720p
Connector A (Source)	Mini DisplayPort 1.4 Male
Connector B (Display)	Mini DisplayPort 1.4 Male
HDMI Protocols	DP1.4, DP1.2
Cable Diameter	4.8mm
Cable Jacket Type	PVC
Cable Color	Black
AOC Constructions	Hybrid, 4x Optical Fiber, 5x Copper Wire
Minimum Bending Radius	50mm
Operating Temperature	0°C to 70°C
Storage Temperature	- 40°C to 85°C
Installation Direction	One Way Direction. DP 1.4 (Source) to DP 1.4 (Display)
Power Connect	Additional Power Supply Required for Long Distance



YDSAOC

EMPOWERING MACHINE VISION AND AUTOMATION



COMPUTER VISION



ROBOTICS



AUTOMATION



QUALITY CONTROL



DATA PROCESSING



RELIABLE CONNECTION

HIGH-RESOLUTION TRANSMISSION

BUILT FOR INDUSTRIAL ENVIRONMENTS

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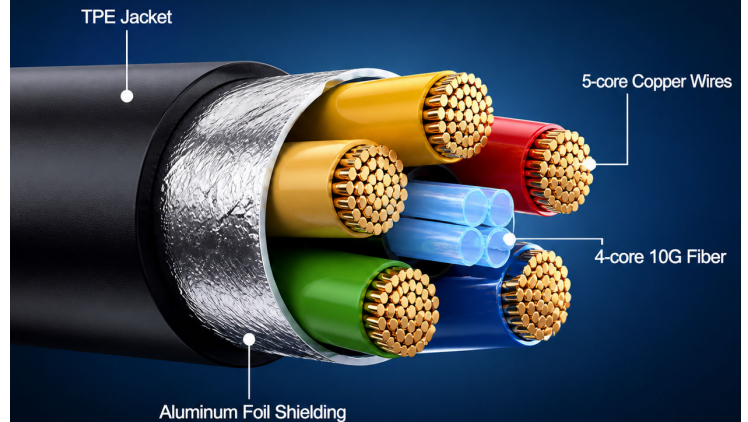
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10G Fiber: Zero Radiation Anti-Interference

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



Internal structure is a render, refer to actual product.



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8K Ultra HD Screen Mirroring

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



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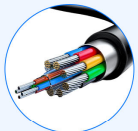
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Zinc Alloy Shell



Sturdy Connector



Tinned Copper Core



Flexible Cable Body

Tear-Resistant & Durable



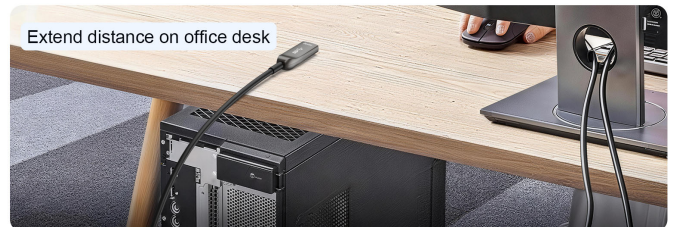
Connect to printer



Connect to camera



Extend distance for digital devices



Extend distance on office desk

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WIDE RANGE OF APPLICATIONS



1 Home theaters and entertainment systems



2 Professional AV, conference rooms, and video conferencing



3 Digital signage and LED displays



4 Medical imaging and healthcare equipment



5 Machine vision / industrial automation



6 Gaming and VR/AR setups



7 Broadcasting and live streaming



8 Security monitoring systems



9 Airplane on-board video systems



ONE CABLE. ENDLESS POSSIBILITIES.

Powerful performance for every professional and personal need.



HIGH SPEED
TRANSMISSION



STABLE &
RELIABLE



DURABLE
BUILD



CRYSTAL-CLEAR
VISUALS



PLUG & PLAY
SIMPLICITY

YDSAOC-32G-MINID P-M-M



Mini DisplayPort 1.4 Active Optical Cable (32.4Gbps)



SPECIFICATIONS



Connector type:

Mini DisplayPort 1.4 to Mini DisplayPort 1.4



Maximum length:

Up to 200 meters (600 ft)



Bandwidth:

32.4 Gbps (HBR3)



Resolution support:

8K (7680 × 4320)@30Hz,
4K@144Hz, 5K@30Hz

KEY FEATURES



8K Ultra HD support

with lossless transmission up to 200m



Plug-and-play

with no drivers or external
power required

Minimal signal loss

and near-zero EMI/RFI interference



Advanced video technology support

(Dynamic HDR, eARC, VRR, ALLM)



High-quality audio

up to 192kHz, 24-bit

Robust corrosion-resistant
construction

APPLICATIONS

Home
theatersProfessional
AVDigital
signageMedical
imagingMachine
visionGaming and
VR/AR

Broadcasting

Security
monitoring32.4Gbps
High Bandwidth8K@30Hz
High ResolutionAOC Technology
Long Distance TransmissionReliable & Durable
Premium Quality

* Specifications are subject to change without notice.

1. DisplayPort 1.4



2. Mini DisplayPort



3. HDMI 2.1



4. Mini HDMI (Type C)



5. Micro HDMI (Type D)



6. DVI-D



7. VGA



8. USB-C



9. Thunderbolt 4
(USB-C form factor,
40 Gbps) ⚡



10. Toslink



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



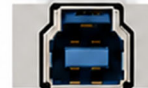
USB Type C



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.



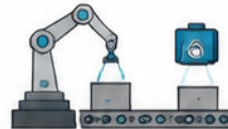
9 USB4 Applications

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