Package Contents

1pc Active Optical USB Type-C Cable

1pc Installation Card

1pc User Guide

Specifications

Mode 1	4-Lane DisplayPort 2.1 + USB 2.0	
Mode 2	2-Lane DisplayPort 1.4 + USB 3.2	
Power Delivery	Up to 60 Watts (20V/3A)	
Mode 1 Resolutions	8K30Hz / 8K60Hz HDR + DSC	
Mode 2 Resolutions	4K60Hz / 4K120Hz HDR + DSC	
DP Alt-Mode Source	Required for video function	
Tensile Strength	400N Momentary / 200N Static	
Minimum Bend Radius	25mm Dynamic / 15mm Static	
Operating Temperature	0°C to 50°C	
Operating Humidity	10 to 80% RH (no condensation)	
Power Supply	Min 3V Max 12V	
Power Consumption	1.2W (typical) from 5V input	
Plug Dimensions	45 x 11.5 x 13mm (LxWxH)	
Cable Diameter	6.5mm / TPE Jacket	
Weight	150g	

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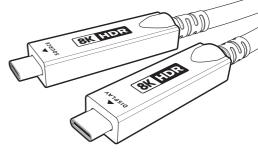
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Please retain this manual for future reference

CARBON SERIES

Active Optical USB Type-C° 40Gbps • 60Watt PD

AV-Z-UC40 User Guide



AVencore

Better cables. Smarter gadgets.

Active Optical USB Type-C[®] 40Gbps • 60Watt PD

△Safety Information -

- Safety Risk of electric shock. No user-repairable parts inside. Do not open or modify.
- Environment Do not operate the product in direct sunlight, dusty environments, or in wet, raining or damp conditions. Designed for indoor use only.

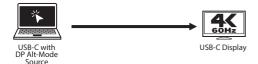
Basic Operation

Connecting Devices

- Connect the plug marked Source to the DP Alt-Mode compatible source device, e.g. Laptop, Computer, Smartphone, etc
- Connect the plug marked Display to a USB Type-C Compatible Display video input socket

Note: Not all USB-C sockets are DP Alt-Mode enabled. Check for the **D** or **7** icons on your source device, or in your source device user manual.

If your display is not immediately recognised, check your display configuration settings.



Note: Cable orientation is not critical for data-only links

Features

- Automatic Dual Specification
 - Mode 1: 40Gbps Video + USB 2.0 (480Mbps)
 - Mode 2: 16.2Gbps Video + USB 3.2 (20Gbps)
- Power Delivery up to 60W (20v/3A)
- Plug and Play. No Drivers. No External Power
- Supports High Dynamic Range (HDR10 & HLG)
- Display Stream Compression (DSC) Supported
- Requires DP Alt-Mode for Audio/Video Functions

High Resolution Display Modes

Display Mode	Mode 1 40Gbps Video	Mode 2 16.2Gbps Video
8K 60	Yes (with DSC)	No
8K 30	Yes	Yes (with DSC)
5K 120	Yes (with DSC)	No
5K 60	Yes	Yes (with DSC)
4K 240	Yes (with DSC)	No
4K 120	Yes	Yes (with DSC)
4K 60	Yes	Yes
WQHD 240	Yes	Yes (with DSC)
FHD 240	Yes	Yes (with DSC)

The above resolutions are a guide only, depending on hardware.

Note: Mode selection is automatic based on your chosen resolution, refresh rate and bit-depth. If you are targeting USB 3.2 20Gbps (Mode 2), you may need to select a lower resolution that does not require DSC, e.g. 4K 60Hz (8-Bit)