

### UE3415F

15 m Ultra HD USB-C Active Optical Cable



**DP 2.1 USB-C Active Optical Cable for Data, Power, and Video**

10 m / 15 m Ultra HD USB-C Active Optical Cable

UE3410F / UE3415F

The [UE3410E](#) (10 m) / [UE3415F](#) (15 m) Ultra HD USB-C DisplayPort 2.1 Active Optical Cable is designed for high-performance video conferencing, professional presentations, and connectivity with various USB-C peripherals such as tablets, monitors, and camera devices. Supporting DisplayPort 2.1 over USB-C, it ensures stable video transmission and ultra-high USB data transfer rate (up to 10 Gbps), adapting to connected device specifications. With strong EMI/RFI resistance and active optical design, it guarantees rapid, long-distance transmission without signal degradation.

Ideal for commercial, educational, and healthcare applications, this cable delivers reliable performance across a wide range of devices, ensuring pristine visuals and smooth plug-and-play connectivity.



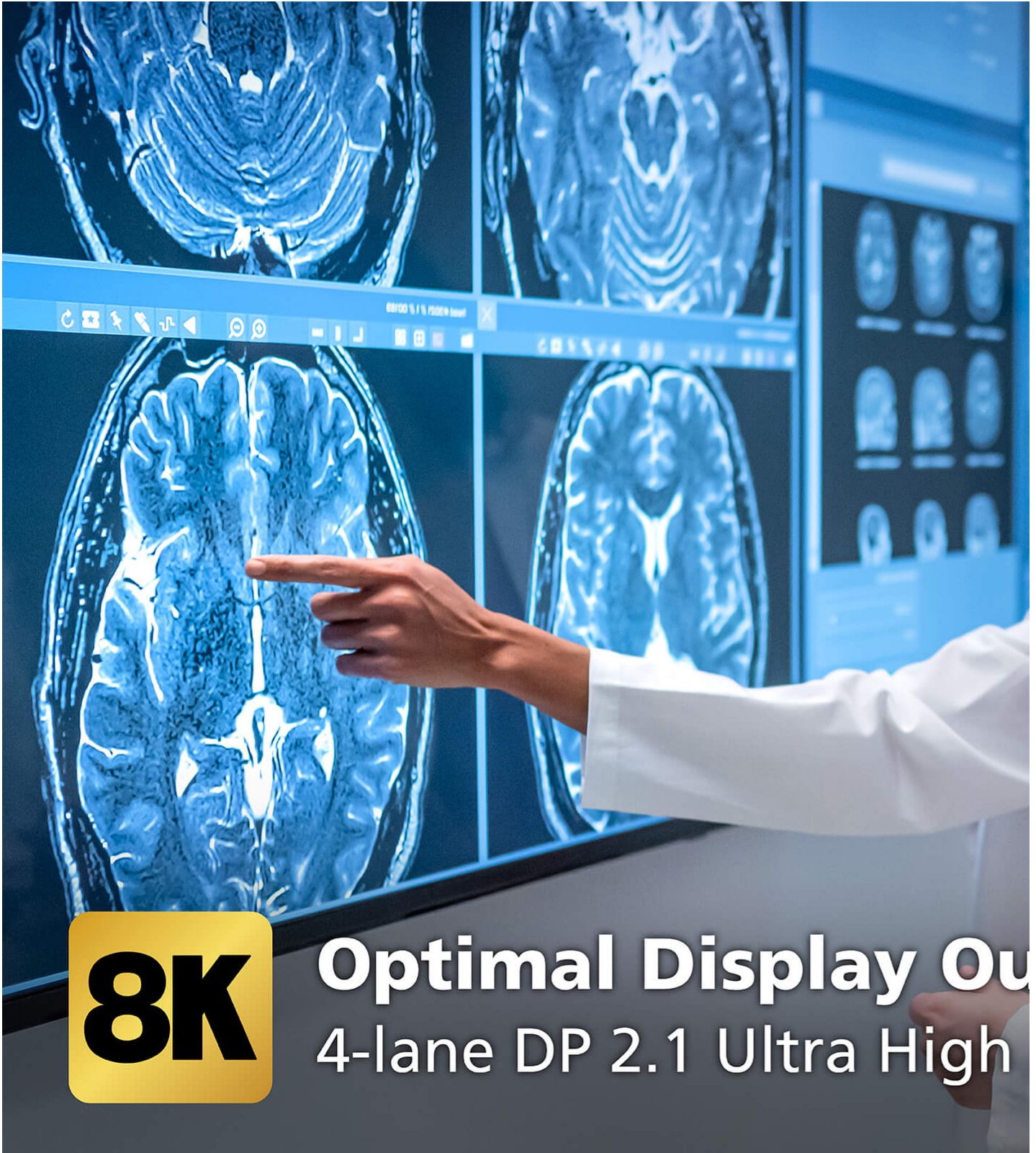
**Full-featured USB-C Active Optical Cable**

The full-featured USB-C Active Optical Cable supports high-bandwidth USB-C 3.2 Gen 2 data transfer, DisplayPort 2.1 video streaming, and power delivery.



**Adaptive DP Lane Switching for Optimal USB and Display Output**

Whether it's 4-lane DP 2.1 UHBR10 (Ultra High Bit Rate 10) with USB 2.0 or 2-lane DP 1.4 with USB 3.2 Gen 2 at 10 Gbps, the connected device intelligently selects the optimal DisplayPort mode to ensure smooth, high-speed transmission and maximum compatibility for the intended application.



**8K**

**Optimal Display Ou**  
4-lane DP 2.1 Ultra High



**Opti**  
2-lane DP 1.4 w



**Up to 60W Power Delivery**

The capacity to supply power up to 60W to modern devices and peripherals ensures all-around, hassle-free operation.

**Wide Compatibility with Assorted USB-C Devices**

The USB-C Active Optical Cables supply a smooth link-up between source and display, ensuring exceptional display of these USB-C supported devices.





USB-C Active Optical Cable vs HDMI Active Optical Cable



**USB-C Active Optical Cable  
(UE3410F / UE3415F)**

**HDMI Active Optical Cable**

Data Transfer

✓  
Bidirectional

✗

Video Transmission

✓  
Unidirectional

✓  
Unidirectional

Power Delivery

✓

✗

Applications

- 1.
- 2.
- 3.
- 4.







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**Features**

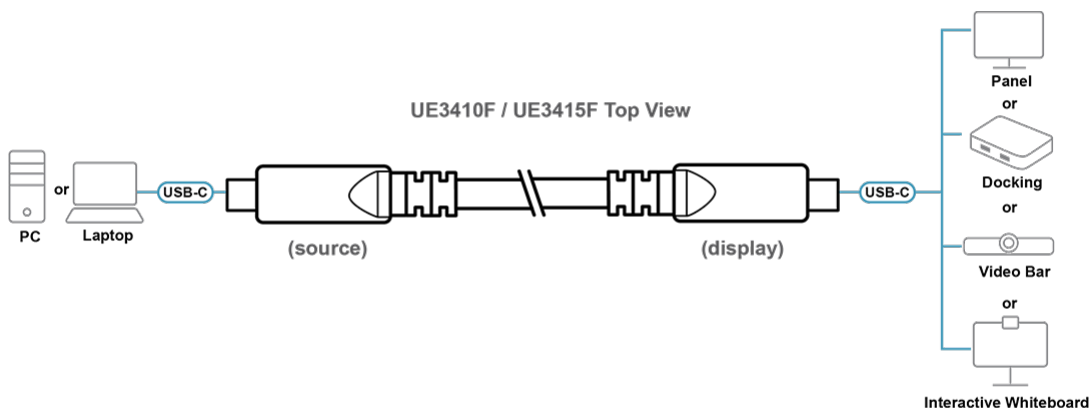
The UE3415F is a USB-C full-featured active optical cable that handles high-speed data and video transmission and up to 60W power delivery for a distance of up to 15 m simultaneously. It supports two operating modes – either 2-lane (DP 1.4 + USB 3.2 Gen 2 at 10 Gbps) or 4-lane (DP 2.1 UHBR10 + USB 2.0 at 480 Mbps) up to 4K @ 60 Hz. Cable construction using premium materials brings high resistance to EMI / RFI, making it suitable not just for educational and conference scenarios, but also sensitive applications in medical industry.

- Extends distance between PCs and USB-C peripherals up to 15 m
- Supports 60W Power Delivery
- Supports either 4-lane DP2.1 UHBR10 + USB 2.0 (480 Mbps) or 2-lane DP 1.4 + USB 3.2 Gen 2 (10 Gbps) depending on the requirements of the connected device
- Supports resolutions up to 4K@60Hz (without HDR or DSC)
- Backward compatible with USB 2.0 / 1.1
- Highly resistant to EMI and RFI due to high quality material construction
- Plug-and-play

Specification

Connectors	
USB Port	1 x USB-C Male
Downstream	1 x USB-C Male
Cable Type	Hybrid type with optical fiber and copper wire
Cable Length	15 m
Data Rate	Up to 10 Gbps
Power Consumption	DC5V:2WBTU/h Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
Environmental	
Operating Temperature	0-40°C
Storage Temperature	-20-60°C
Humidity	10-80% RH
Jacketed	
Material	PVC
Color	Black
Physical Properties	
Housing	Connector Case: Zinc-Alloy
Weight	1.10 kg ( 2.42 lb )
Note	<ol style="list-style-type: none"> <li>1. Make sure to plug the SOURCE connector to the output port of a source device and the DISPLAY connector to the input port of a display device.</li> <li>2. Bending radius of optical cable must exceed 65 mm when the conduit turns direction. Bending or intermediate splicing is absolutely not allowed.</li> <li>3. Make sure that the two connectors on the cable are not heavily pressed or pressured. They are very fragile. Please handle with care.</li> <li>4. When laying optical cables, special caution must be taken that the pulling force is within the tolerance range (&lt;50kg). Lay the cable in even speeds to avoid any impact or sudden stop.</li> <li>5. When laying optical cables, make sure the speed is controlled not to exceed 20m/minute.</li> </ol>

Diagram





Simply Better Connections

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