Triple-Monitor USB-C Docking Station

KD-S03



User Manual

AV Access

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Introduction

Overview

The KD-S03 is a powerful 12-in-1 USB-C docking station designed to enhance your workspace by enabling you to connect a computer and use up to three different screens simultaneously. It features a fully functional USB-C interface that supports the transmission of multiple UHD videos, audio, USB 3.2 data, and 1G network connectivity, all while delivering a 100W charging capability. This docking station is fully compatible with the latest Thunderbolt 4 and USB4 computers.

With support for the USB 3.2 Gen 2 standard, the KD-S03 enables ultra-high-speed data transfer rates of up to 10Gbps. It also includes a USB-C data port for connecting high-speed USB hard drives, a 3.5mm integrated audio jack for headset (speaker + microphone), and a 1G LAN port for high-speed network connectivity. Designed to meet the demands of high-performance users, the KD-S03 is an essential tool for faster, high-specification gaming laptops.

Features

- 12-in-1 USB-C docking station with triple monitor.
- One full-featured USB-C input supports 4K video transmission, USB 3.2 data, and 100W charging.
- Triple monitor with two DisplayPort 1.2 outputs and one HDMI 2.0 output (windows only).
- Supports resolutions up to 4K at 60Hz and also supports 2560x1440 at 144Hz and 1080p at 240Hz/165Hz, making it ideal for gaming.
- Provides multiple peripheral ports, including:
  - 2x USB 3.0 type-A ports on front panel, support USB 3.0 standard, 5V/1A power output and 10Gbps data transfer;
  - 1x USB 3.0 type-A port on rear panel, supports USB 3.0 standard, 5V/1.5A power output and 5Gbps data transfer;
  - 1x USB 3.0 type-C port (data only), supports USB 3.0 standard, 10Gbps data transfer rate, and 1.5A current output;
  - 2x USB 2.0 type-A ports, supports USB 2.0 standard, and 480Mbps data transfer rate;
  - 1x SDXC card slot, supports up to 2TB SDXC card inserted, and

maximum data transmission is 104MB/s;

- 1x LAN port, support for 1Gb Ethernet performance;
- 1x 3.5mm TRRS (stereo + microphone) headset port.

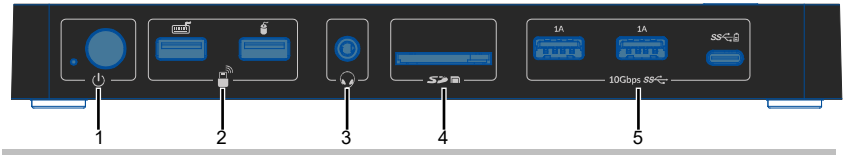
Package Contents

Before you start the installation of the product, please check the package contents:

- USB-C Docking Station x 1
- Power Adapter (DC 20V/6A) x 1
- USB 3.2 Gen 2 Type-C to Type-C Cable (L = 1m) x 1
- User Manual x 1

Panel

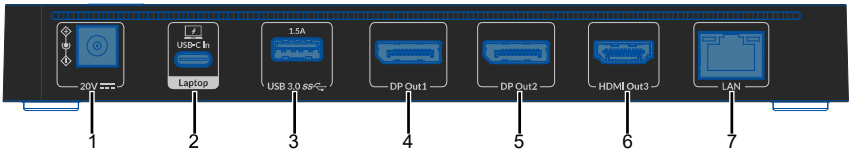
Front Panel



No.	Name	Description
1	Power Button and LED	Power Button: Press to power on/off the device. Power LED: On/Off: The device is powered on/off.
2	USB Device	USB 2.0 Type-A ports. It is recommended to connect to the keyboard, a mouse or wireless receiver.
3	Headphone	3.5mm TRRS headphone jack. Connect to a headphone with microphone. The headphone switching follows the USB-C in port selected and need to select "AV Access iDock" on the connected host device.
4	SD Slot	SDXC port. Insert SDXC card.
5	USB 3.0 (1.0A) + USB-C	USB 3.0 (1.0A): Two USB 3.0 type-A ports, can be used to connect to USB 3.0 high-speed devices for KVM function. Supports 5V/1A power output. USB-C: One USB 3.0 type-C port. Connect to USB device with USB-C port. The port is used to

No.	Name	Description
		transmit USB data only, and output 1.5A current.

Rear Panel



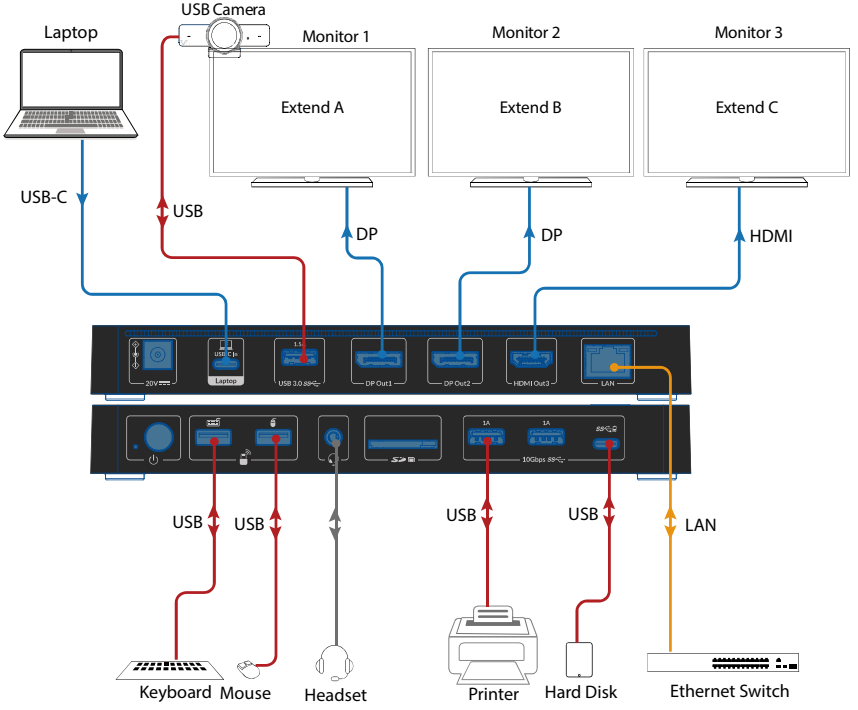
No.	Name	Description
1	DC 20V	Connect to the power adapter provided.
2	Laptop (USB-C In)	USB 3.0 type-C port. Connect to USB-C sources such as laptop. All peripherals will be connected to the laptop the USB-C port connected. Supports the following functions: • Supports transmitting 4K video, audio, USB and ethernet signals. • Supports DP MST mode, can output three videos simultaneously. **Note:** ➢ If the connected laptop supports DP 1.4 with DSC, the device can output 2x 4K@60Hz videos + 1x 4K@30Hz video; ➢ If the connected laptop supports DP 1.4 without DSC, the device can output 3x 1080P@60Hz videos simultaneously; ➢ If the connected laptop supports DP 1.2, the device can output 2x 1080P@60Hz videos simultaneously; ➢ If connected to a MacBook, the device can output 3 mirrored videos. • Supports PD 2.0. The port can charge the connected laptop (up to 100W). The following cable is recommended: USB type-C to type-C cable (USB 3.2 Gen 2 or

No.	Name	Description
		above).
3	USB 3.0 (1.5A)	USB 3.0 type-A ports. With 5V 1.5A supported, it can be used for connecting USB devices with high power, such as connecting a USB Camera.
4 & 5 & 6	DP Out1 & 2 and HDMI Out 3	Connect to monitors.
7	LAN	Connect to a local area network, the laptop the USB-C In port connected can access to this network.

Application

Warnings:

- Before wiring, disconnect the power from all devices.
- During wiring, connect and disconnect the cables gently.



Note:

- All peripherals including all USB devices, the connected headphone (the laptop needs to select the "AV Access iDock"), and SDXC card will be connected to the laptop connected (if inserted).
- The laptop USB-C In port connected can access the network the LAN port connected.

Resolution

The USB-C In port of the device supports DP alt mode and supports DP MST outputs. It can output three different videos at the same time.

The actual output resolution of this product depends on the DisplayPort standard of the USB-C (or Thunderbolt) port on the connected laptop. Please refer to the table below:

For Windows:

	DP 1.4 HBR3 with DSC			DP 1.4 HBR3 without DSC			DP 1.2 HBR2		
	DP Out 1	DP Out 2	HDMI Out 3	DP Out 1	DP Out 2	HDMI Out 3	DP Out 1	DP Out 2	HDMI Out 3
Single	4K@60Hz			4K@60Hz			1080P@60Hz		
Dual	2x 4K@60Hz			2x 1080P@60Hz			2x 1080P@60Hz		
Triple	Dual 4K@60Hz + 4K@30Hz			3x 1080P@60Hz			Dual 1080P@60Hz + lower than 1080P		

For macOS with Intel chip or M-series chip, doesn't support MST which is limited by itself, the external 3 displays will show the same content.

Specifications

Technical	
Input	USB-C supports: 100W Charging; USB 3.2 Gen 2 (up to 10Gbps); 4K video signal transfer
Output	**HDMI:** HDMI 2.0b, up to 4K@60Hz 4:4:4 8bit and HDCP 2.2 **DP:** DP 1.2, up to 4K@60Hz 4:4:4 8bit and HDCP 2.2
Peripheral and Expansion	**USB-C x1:** Up to 10Gbps, 1.5A power output. **USB-A x5:** • Two USB 3.0 ports on front panel, supports 1A power output, and 10Gbps data transfer, • One USB 3.0 type-A port on rear panel, supports 1.5A power output, 5Gbps data transfer; • Two USB 2.0 type-A ports, up to 480Mb/s **SDXC card:** Up to 104MB/s, maximum support 2TB.

Technical	
	LAN: RJ-45 connector, support for 1Gb Ethernet performance.
Input/Output Resolution Supported	**SMPTE:** 1280x720P[1,2,3,4,5,6,7,8], 1920x1080I[6,8], 1920x1080P[1,2,3,4,5,6,7,8,9,10,11,12], 2560x1080[9], 3840x1080[9], 3840x2160[2,3,5,6,8], 4096x2160[2,3,5,6,8] **VESA:** 800x600[8], 1024x768[8], 1280x768[8], 1280x800[8], 1280x960[8], 1280x1024[8], 1360x768[8], 1366x768[8], 1400x1050[8], 1440x900[8], 1600x900[8], 1600x1200[8], 1680x1050[8], 1920x1200[8], 2560x1440[1,2,3,4,5,6,7,8,9] 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = at 60 Hz, 9 = 120Hz, 10 = 144Hz, 11 = 165Hz, 12 = 240Hz The following high refresh resolutions follow CVT standard, which is commonly used for DP ports, while some displays with HDMI ports also support it: 3840x1440@100Hz/60Hz RBv2 3840x1080@120Hz/100Hz/60Hz RBv2 3440x1440@100Hz/60Hz RBv2 2560x1600@120Hz/100Hz/60Hz RBv2 2560x1440@144Hz/120Hz/60Hz RBv2 2048x1536@165Hz/144Hz/120Hz/60Hz RBv2
Audio Format Supported	**HDMI/DP Out:** Fully supports audio formats in DP 1.2/HDMI 2.0 specification, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, and DTS:X **USB-C In:** Fully supports multiple channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X **Headphone:** Stereo

General	
Operating Temperature	0°C to + 45°C (32 to + 113 °F)
Storage Temperature	-20 to +70°C (-4 to + 158 °F)
Humidity	20% to 90%, non-condensing
Power Consumption	120W (Max)
Device Dimensions (W x H x D)	220mm x 25.2mm x 100mm / 8.66″ x 0.99″ x 3.94″
Product Weight	0.72kg/1.59lbs

Warranty

Products are backed by a limited 1-year parts and labor warranty. For the following cases AV Access shall charge for the service(s) claimed for the product if the product is still remediable and the warranty card becomes unenforceable or inapplicable.

1. The original serial number (specified by AV Access) labeled on the product has been removed, erased, replaced, defaced or is illegible.
2. The warranty has expired.
3. The defects are caused by the fact that the product is repaired, dismantled or altered by anyone that is not from an AV Access authorized service partner. The defects are caused by the fact that the product is used or handled improperly, roughly or not as instructed in the applicable User Guide.
4. The defects are caused by any force majeure including but not limited to accidents, fire, earthquake, lightning, tsunami and war.
5. The service, configuration and gifts promised by salesman only but not covered by normal contract.
6. AV Access preserves the right for interpretation of these cases above and to make changes to them at any time without notice.

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