

# 2 x 1 Dual-Monitor KVM Dock Switcher

KD-E10



## User Manual



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# Introduction

## Overview

KD-E10 is a multi-function 2x1 KVM switch docking for personal home office and entertainment. It can be used as the core device for home office, which can be connected to a USB-C laptop for meeting and office, and it can also be connected to a desktop to provide users with gaming and entertainment needs. This device provides simple device connection and switching methods, sharing a series of external devices between laptop and desktop, such as mouse, keyboard, mobile hard disk, camera or speakerphone.

## Features

- Two 4K@60Hz outputs for dual monitors KVM application.
- 2x1 Switch with one USB-C for the laptop and one combined HDMI+DP+USB-B 3.0 for the desktop.
- One full-featured USB-C input supports 4K@60Hz video transmission, USB 3.0 data, and 100W charging (when an external USB-C power adapter is connected).
- Both inputs and outputs support HDCP 2.2 and HDCP 1.4.
- Provides multiple peripheral ports, including:
  - 3x USB 3.0 type-A ports, support USB 3.0 standard, and 5Gbps data transfer rate of per port. Two of the three ports support 5V/1A power output, and the other one supports 5V/1.5A power output;
  - 1x USB 3.0 type-C port (data only), supports USB 3.0 standard, 5Gbps 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 (For USB-C Laptop only);
  - 1x 3.5mm TRRS (stereo + mic) headset port.
- Support CEC trigger on HDMI outputs. When the current channel detects an input signal, it sends a CEC Power-ON command to the corresponding HDMI output port.
- Support automatic wake-up function, which automatically wakes up the standby computer when switching.

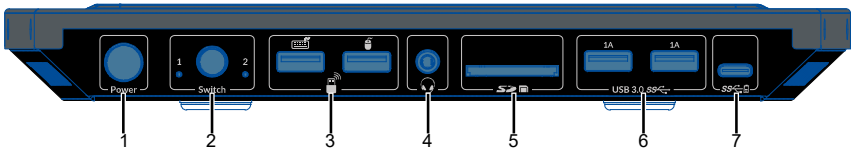
## Package Contents

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

- Switcher x 1
- Power Adapter (DC 12V 3A) x 1
- USB 3.2 Gen 2 Type-C to Type-C Cable (L = 1m) x 1
- USB 3.0 Type-B to Type-A Cable (L = 1.5m) x 1
- HDMI 2.0 Cable x 1
- DP 1.2a Cable x 1
- User Manual x 1

## Panel

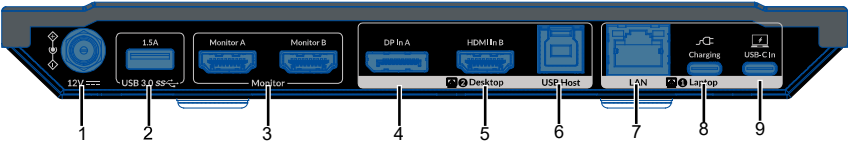
### Front Panel



| No. | Name              | Description                                                                                                                                                                                   |
|-----|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Power Button      | Press to power on/off the device. When the device is powered on, the backlight of the button will light blue.                                                                                 |
| 2   | Switch            | Press to switch source between USB-C In 1 and Desktop 2 (HDMI + DP + USB Host (USB Type-B)).                                                                                                  |
| 3   | USB Device        | USB 2.0 Type-A ports. It is recommended to connect to a keyboard and a mouse.                                                                                                                 |
| 4   | Headphone         | 3.5mm TRRS headphone jack. Connect to a headphone with microphone. The headphone switching follows the USB Host port selected and need to select "AV Access KD-E10" on the connected host PC. |
| 5   | SD Slot           | SDXC port. Insert SDXC card.                                                                                                                                                                  |
| 6   | USB 3.0 (1.0A)    | USB 3.0 type-A ports, can be used to connect to USB 3.0 high-speed device for KVM function. Supports 5V/1A power output.                                                                      |
| 7   | USB-C (data only) | USB 3.0 type-C port. Connect to USB device with USB-C port. The port is used to transmit USB                                                                                                  |

| No. | Name | Description                         |
|-----|------|-------------------------------------|
|     |      | data only, and output 1.5A current. |

Rear Panel



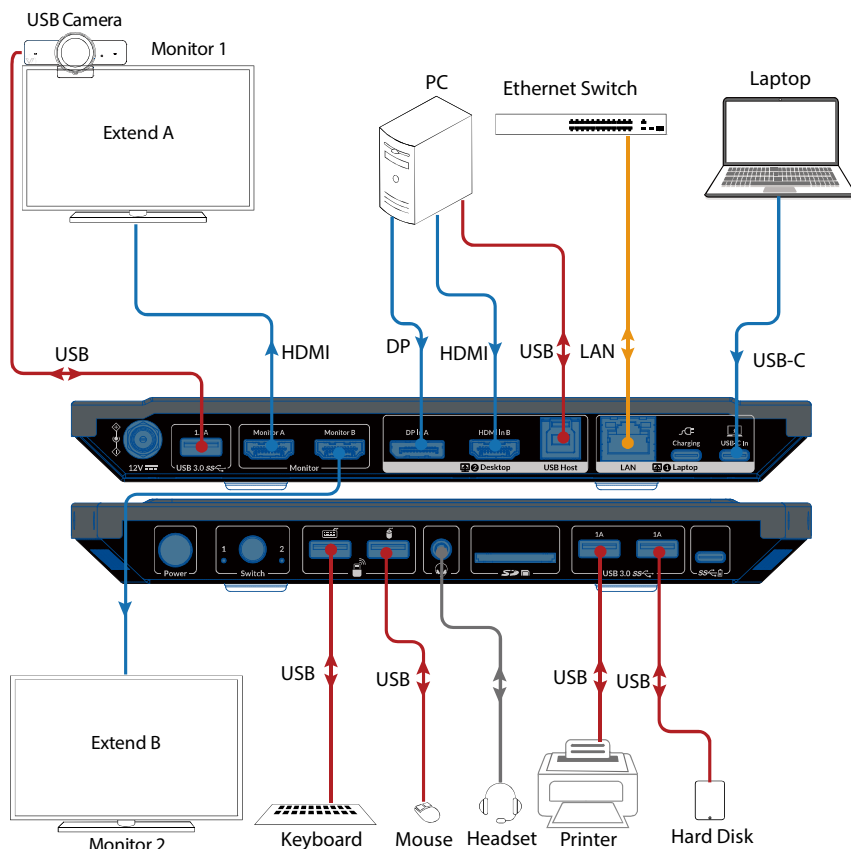
| No.             | Name           | Description                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1               | DC 12V         | Connect to the power adapter provided.                                                                                                                                                                                                                                                                                                                                                         |
| 2               | 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.                                                                                                                                                                                                                                                      |
| 3               | Monitor (A&B)  | Connect to HDMI displays.                                                                                                                                                                                                                                                                                                                                                                      |
| 4 &<br>5 &<br>6 | Desktop 2      | <ul style="list-style-type: none"><li>DP In A: Connect to DP out port of the PC.</li><li>HDMI In B: Connect to HDMI out port of the PC.</li><li>USB Host: USB 3.0 type-B port. Connect to the USB type-A port of the PC.</li></ul> The three ports are in a group, when switch to this group, all USB peripherals + SDXC card + Headset will be connected to the PC the three ports connected. |
| 7               | LAN            | Connect to a local area network, the laptop the USB-C In port connected can access to this network.                                                                                                                                                                                                                                                                                            |
| 8               | Charging       | Connect to an external power source (up to 100W) when charging the connected laptop through USB-C In port.                                                                                                                                                                                                                                                                                     |
| 9               | USB-C In       | USB 3.0 type-C port. Connect to USB-C source such as laptop. When select to USB-C In as input source, all peripherals will be connected to the laptop the USB-C port connected. Supports the following three functions: <ul style="list-style-type: none"><li>Supports transmitting video, audio, USB and ethernet signals.</li><li>Supports DP MST mode, can output two</li></ul>             |

| No. | Name | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |      | <p>videos (two 4K@60Hz maximum) at the same time.</p> <p><b>Note:</b> The connected computer needs to support DP 1.4a standard and MST output to outputting two 4K@60Hz video channels.</p> <ul style="list-style-type: none"> <li>• Supports PD 2.0. The port can charge the connected laptop (up to 100W) when the Charging port is connected to the external power source.</li> </ul> <p>The following cable is recommended:<br/>USB type-C to type-C cable (USB 3.2 Gen 2 or above).</p> |

# Application

## Warnings:

- Before wiring, disconnect the power from all devices.
- During wiring, connect and disconnect the cables gently.
- When select USB-C In laptop as input source, monitor A and B output the signals from USB-C's MST dual-screen. All peripherals including all USB devices, headphone (the PC needs to select the "USB Audio Device"), and SDXC card will be connected to the laptop connected.
- When select Desktop 2 as input source, monitor A and B output the signals from DP input and HDMI input respectively. All peripherals including all USB devices, headphone (the PC needs to select the "USB Audio Device"), and SD card will be connected to the host PC Desktop 2 connected.
- When charging the connected laptop through USB-C In port, users need to connect an external power source (up to 100W) through the Charging port.
- Regardless of whether USB-C In is selected as the input source, the laptop connected to this port can access the network the LAN port connected. The PC connected with Desktop 2 group doesn't support this function.



# Specifications

## Technical

### Input

#### Laptop: USB-C

USB-C supports: 100W Charging (DP 2.0), USB 3.0 (up to 5Gbps), and up to 4K@60Hz (DP MST) two video transmission

#### Desktop: DP + HDMI + USB-B

DP port supports DP 1.4a, up to 4K@60Hz 4:4:4 8bit and 4K@60Hz 4:2:0 8bit;

HDMI port supports HDMI 2.0b, up to 4K@60Hz 4:4:4 8bit and 4K@60Hz 4:2:0 8bit;

USB-B port supports USB 3.0 (up to 5Gb/s).

HDCP: All inputs support HDCP 2.2

| Technical                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output                            | HDMI 2.0b, up to 4K@60Hz 4:4:4 8bit and HDCP 2.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Peripheral and Expansion          | <p><b>USB-C x1:</b> Up to 5Gb/s, 1.5A power output.</p> <p><b>USB-A x5:</b></p> <ul style="list-style-type: none"> <li>Three USB 3.0 ports, up to 5Gb/s, and two of them supports 1A power output, and the other one supports 1.5A power output</li> <li>Two USB 2.0 ports, up to 480Mb/s</li> </ul> <p><b>SDXC card:</b> Up to 104MB/s, maximum support 2TB.</p> <p>LAN: RJ-45 connector, support for 1Gb Ethernet performance (For USB-C Laptop only)</p>                                                                                                                                                                                                                                                                                                                                                                                 |
| Input/Output Resolution Supported | <p><b>SMPTE:</b><br/>1280x720P<sup>1,2,3,4,5,6,7,8</sup>, 1920x1080I<sup>6,8</sup>,<br/>1920x1080P<sup>1,2,3,4,5,6,7,8,9,10,11,12</sup>, 2560x1080<sup>9</sup>, 3840x1080<sup>9</sup>,<br/>3840x2160<sup>2,3,5,6,8</sup>, 4096x2160<sup>2,3,5,6,8</sup></p> <p><b>VESA:</b><br/>800x600<sup>8</sup>, 1024x768<sup>8</sup>, 1280x768<sup>8</sup>, 1280x800<sup>8</sup>,<br/>1280x960<sup>8</sup>, 1280x1024<sup>8</sup>, 1360x768<sup>8</sup>, 1366x768<sup>8</sup>,<br/>1400x1050<sup>8</sup>, 1440x900<sup>8</sup>, 1600x900<sup>8</sup>, 1600x1200<sup>8</sup>,<br/>1680x1050<sup>8</sup>, 1920x1200<sup>8</sup>, 2560x1440<sup>1,2,3,4,5,6,7,8,9</sup></p> <p>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</p> |
| Audio Format Supported            | <p><b>DP 1.4a/HDMI In/Out:</b> Fully supports audio formats in DP 1.2a/HDMI 2.0 specification, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, and DTS:X</p> <p><b>USB-C In:</b> 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</p> <p><b>Headphone:</b> Stereo</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| 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             | 33.12W (Max)                                  |
| Device Dimensions (W x H x D) | 230mm x 25mm x 142.6mm/ 9.06" x 0.98" x 5.61" |
| Product Weight                | 0.78kg/1.72lbs                                |

# 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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General Enquiry: [info@avaccess.com](mailto:info@avaccess.com)

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