4K 2x1 Dual-Monitor KVM Dock Switcher for MacBook

iDock M10

User Manual

AV Access

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Introduction

Overview

This product is a dual-computer, dual-monitor KVM switch docking station designed specifically for MacBook laptops and desktop PCs.

For MacBook users, it features a dedicated dual USB-C input that connects to the two Thunderbolt ports on the left side via the included dual-head USB-C cable. This enables dual 4K video output, USB 3.2 Gen 2 (10Gbps) data transfer, 1Gb Ethernet connectivity, and up to 100W power delivery.

For desktop PCs, the docking station offers a combined DP + HDMI + USB Host input, allowing seamless integration and easy switching between systems.

Beyond switching functionality, the device also serves as a 10-in-1 docking station, offering a wide range of expansion ports, including:

- 2 × HDMI video outputs;
- 2 × USB 3.2 Gen 2 (10Gbps) Type-A ports;
- 1 × USB 3.2 Gen 2 (10Gbps) Type-C port;
- 2 × USB 3.2 Gen 1 (5Gbps) Type-A ports;
- 1 × SD card slot;
- 1 × Gigabit Ethernet port;
- 1 × 3.5mm headset jack.

The KVM supports EDID emulation to maintain continuous power, display, and network connections during switching—ensuring a stable and uninterrupted desktop experience.

Features

- 2x1 4K KVM switch docking for MacBook, switch between one MacBook and one desktop for two monitors and share a series of peripheral devices.
- Support switching inputs between two combined USB-C inputs for the MacBook and one set of HDMI+DP+USB-C 3.2 host input for the desktop:
  - Two combined USB-C inputs: USB-C InA supports 4K@60Hz 4:4:4 8bit video transmission, USB 3.2 data (up to 10Gbps), 100W charging and 1G network connection and USB-C InB supports 4K@60Hz 4:4:4 8bit video transmission only;
  - One set of HDMI+DP+USB-C 3.2 host input: one HDMI 2.0b input and one DP 1.2a input, each supports transmission of 4K@60Hz video signals. One USB-C host port, supports USB 3.2 data transmission up to 10Gbps and 1G network connection.

- Two HDMI 2.0b output ports support resolution up to 4K@60Hz 4:4:4 8bit and HDCP 2.2.
- Provide multiple peripheral ports, including:
  - 2x USB 3.0 type-A ports on front panel, support 5V/1A power output and 5Gbps data transfer;
  - 2x USB 3.2 type-A ports on front panel, support 5V/1A power output and 10Gbps data transfer;
  - 1x USB 3.2 type-C port (USB data only), supports 10Gbps data transfer rate, and 1.5A current output;
  - 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.
- Supports high refresh rates such as 240Hz, 165Hz, and 144Hz.
- Support automatic wake-up function, when switch to the standby computer, it will be automatically waken up.
- Support CEC trigger on HDMI outputs. When the current channel detects an input signal, it sends a CEC Power-ON command to the HDMI output port.
- Support connecting to the Wired Remote Controller (EXB01) for remote switching.

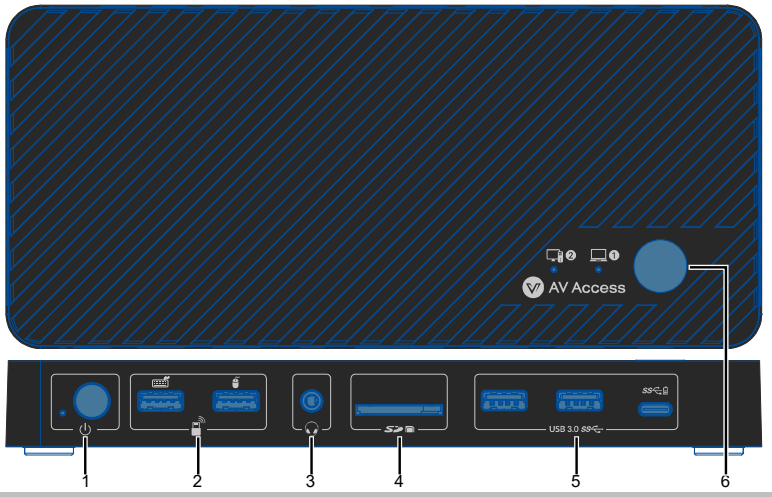
Package Contents

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

- KVM Dock Switcher x 1
- Power Adapter (DC 20V/6A) x 1
- HDMI 2.0 Cable (L = 1.5m) x 1
- DP 1.2a Cable (L = 1.5m) x 1
- Dual USB Type-C to Dual USB Type-C Cable (USB 3.2 Gen 2, L = 0.8m) x 1
- USB Type-A to USB Type-C Cable (L = 1.8m) x 1
- Wired Remote Controller (EXB01) x1
- User Manual x 1

Panel

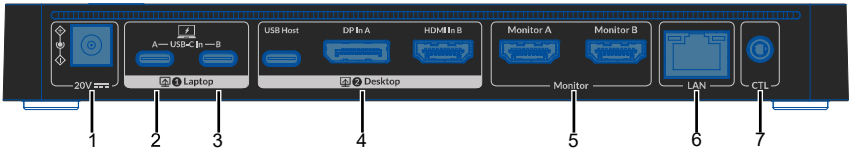
Front Panel



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 Devices	USB 3.0 Type-A ports. Connect to USB devices such as keyboard, mouse or wireless receiver, and each port supports 5V/1A power output and 5Gbps data transfer.
3	Headset	3.5mm TRRS headset jack. Connect to a headset with microphone. The headset switching follows the USB-C input 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	Two USB 3.2 type-A ports and one USB 3.2 type-C port. • The two USB 3.2 type-A port can be used to connect to USB 3.2 high-speed devices for KVM function. Supports 5V/1A power output, and 10Gbps data transfer. • One USB 3.2 type-C port. Connect to USB device with USB-C port. The port is used to transmit USB data only, outputs 1.5A current

No.	Name	Description
		and supports 10Gbps data transfer.
6	Input Switch Button + LEDs	Switch Button: Press the button to switch input source. Input LEDs: • On: The corresponding input is selected. • Off: The corresponding input is not selected.

Rear Panel



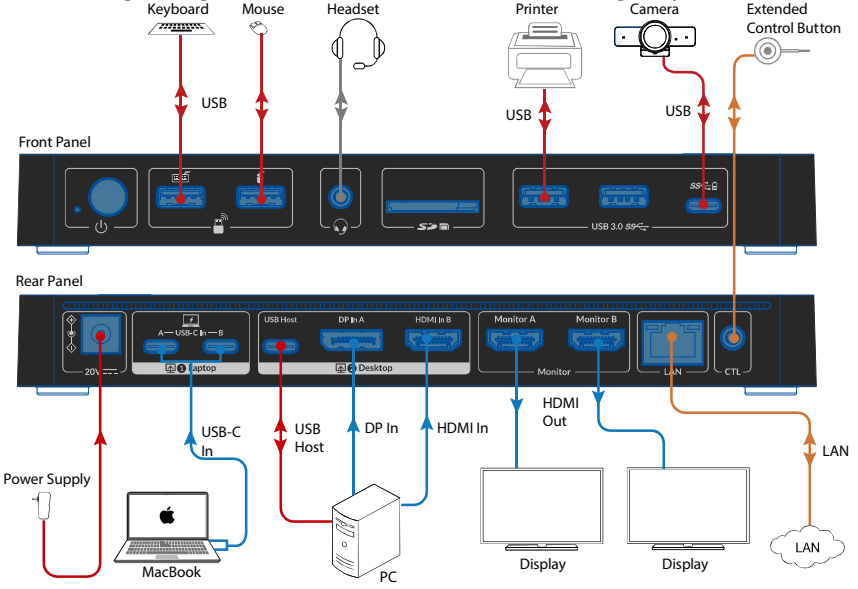
No.	Name	Description
1	DC 20V	Connect to the provided power adapter.
2 & 3	Laptop 1 (USB-C In A & B)	Two USB 3.2 type-C ports. Connect to the two USB-C ports of MacBook using the provided dual USB-C to dual USB-C cable. The USB-C In A port is full-featured, supports the following functions: • Supports of transmitting a 4K@60Hz with 4:4:4 8bit video signal. • Supports USB 3.2 data transfer with speeds up to 10Gbps. • Supports 1G Ethernet connectivity. • Supports PD 3.0 protocol, delivering up to 100W power for charging the connected MacBook. The USB-C In B port only supports transmitting a 4K@60Hz with 4:4:4 8bit video signal. The two USB-C ports operate as a grouped input. When this input group is selected, all connected peripherals are routed to the MacBook connected through these two ports. The following cable is recommended: Dual USB type-C to Dual type-C cable (USB 3.2 Gen 2 or above).
4	Desktop 2	One set of DP In A + HDMI In B + USB-C Host inputs.

No.	Name	Description
		• DP In A: Connect to DP out port of the PC. • HDMI In B: Connect to HDMI out port of the PC. • USB Host: USB 3.2 type-C port. Connect to the USB type-A port of the PC. The three ports operate as a grouped input. When this input group is selected, all connected peripherals are routed to the PC connected through the USB-C port.
5	Monitor A & B	Connect to monitors.
6	LAN	Connect to a local area network. Regardless of which device is selected as the input source, both the MacBook Pro (connected via the USB-C In ports) and the desktop PC (connected via the USB-C Host port) can simultaneously access the network.
7	CTL	Connect to the Wired Remote Controller (EXB01) to control input switching.

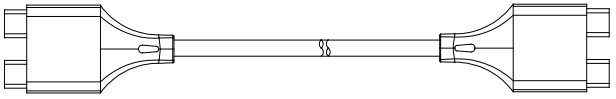
Application

Warnings:

- This product is specifically designed for MacBook and requires connection to the two Thunderbolt 4 ports on the left side of a MacBook Pro/Air using the included dual-head USB-C cable.
- Before connecting, please ensure that your MacBook Pro/Air is equipped with an Apple M-series Pro or Max chip.
- Before wiring, disconnect the power from all devices.
- During wiring, connect and disconnect the cables gently.



- To output dual video from your MacBook using the two USB-C ports on this device, please use the included dual USB-C to dual USB-C cable. Make sure that the two USB-C ports on your MacBook are on the same side and compatible with the cable's connectors.
  The diagram of the dual USB-C to dual USB-C cable is shown below:



- When selecting Laptop1 group as input source, Monitor A and Monitor B output video signals from the two USB-C inputs independently. All connected peripherals—including USB devices, headset (ensure the PC

selects “AV Access iDock” as the audio output), and the SDXC card—are routed to the connected MacBook Pro.

- When selecting Desktop 2 group as input source, Monitor A and Monitor B output two video signals from the DP In A port and HDMI In B port respectively. All connected peripherals—including USB devices, headset (ensure the PC selects “AV Access iDock” as the audio output), and the SD card—are routed to the host PC connected to the USB-C host port.
- Both the laptop (connected via USB-C) and the desktop (connected via USB Host) will maintain network connectivity regardless of the selected source.

Specifications

Technical	
Input	• **USB-C In:** 100W Charging; USB 3.2 Gen 2 (up to 10Gbps); 4K@60Hz 4:4:4 8bit video signal transfer （USB-C InB only supports 4K@60Hz 4:4:4 8bit video signal transfer） • **HDMI In:** HDMI 2.0b, 4K@60Hz 4:4:4 8bit, HDCP 2.2 • **DP In:** DP 1.2a, 4K@60Hz 4:4:4 8bit, HDCP 2.2
Output	HDMI 2.0b, 4K@60Hz 4:4:4 8bit, HDCP 2.2
Peripheral and Expansion	• **USB-C x1:** Up to 10Gbps, 1.5A power output. • **USB-A x2:** Two USB 3.2 type-A ports on front panel, supports 1A power output, and 10Gbps data transfer; • **USB-A x2**: Two USB 3.0 type-A ports on front panel, supports 1A power output, and 5Gbps data transfer; • **SDXC card:** Up to 104MB/s, maximum support 2TB; • **LAN:** RJ-45 connector, supports for 1G 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 • For HDMI: 4K@60Hz (3840x2160, 4096x2160);

Technical	
	1080P@240Hz/165Hz/144Hz/120Hz/60Hz. • The following resolution defines under the CVT standard, which is commonly used for DP interfaces, but some displays with HDMI interfaces 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 In/HDMI Out:** Fully supports audio formats in HDMI 2.0b 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 **Headset:** 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	113.1W (Max)
Device Dimensions (W x H x D)	220mm x 25.2mm x 100mm / 8.66" x 0.99" x 3.94"
Product Weight	0.34kg/0.75lb

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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