2x1 Triple Monitor KVM Switch Docking Station with DP/HDMI

iDock D23i



User Manual

AV Access

Table of Contents

Introduction **2**

Features 2

Package Contents 3

Panel 3

Application **4**

Button Control **5**

Specifications **5**

Warranty **7**

Introduction

Features

- **Multi-Display Switching Support**
  - Two input groups, each supporting 1 x HDMI and 2 x DP inputs
  - One output group, simultaneously supporting 1 x HDMI and 2 x DP outputs
  - Each output channel is independent, allowing for different resolutions across displays
- **8K Resolution & High Refresh Rate Support**

  Fully compatible with HDMI 2.1, DP 1.4a (HBR3) and DP 2.0 (UHBR 13.5), supporting 8K@60Hz, 5K@120Hz, 4K@165Hz/120Hz, 1080P@240Hz, and more (for full details, see the *Specification* section of this manual)
- Cable Length Recommendations
  - Maximum 2m for input cables
  - Maximum 2m for output cables

  Note: Use certified cables compliant with HDMI 2.1 and DP 2.0/1.4a standards for optimal signal integrity.
- **DP Features**
  - MST (Multi-Stream Transport): Enables daisy-chaining multiple monitors via a single DP port
  - HDR Support: Compatible with a wide range of HDR formats
  - VRR (Variable Refresh Rate): Reduces screen tearing and stuttering for smoother visuals
- **Comprehensive Peripheral Connectivity**
  - 3 x USB 3.0 Type-A ports (up to 5Gbps), with one port supporting up to 1.5A current output, the other two sharing 2A total output
  - 2 x USB 2.0 ports (480Mbps)
  - 1 x USB-C port (for data only, not for video), supporting USB 3.0 and 5V/1.5A power output
  - 1 x 3.5mm TRRS audio jack
  - 1 x CTL port, for connecting the external switching button
  - 1 x SDXC card slot, supports up to 2TB capacity and 104MB/s max transfer rate
  - 1 x Gigabit LAN (RJ-45) port, supports 1Gbps network passthrough

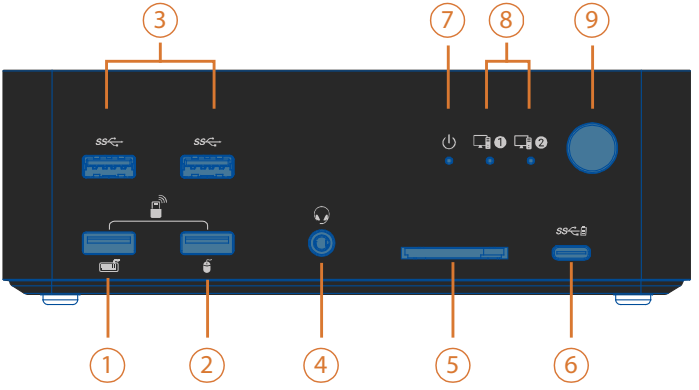
- **Smart Functionality**
  - Auto Wake-Up: Automatically wakes the sleeping computer when switching to it, no manual input required
  - Fast Switching Response: Typical 2–3 seconds
- **Control**
  - Supports control via front panel button and external switching button (EXB01)
- **Included Accessories**
  - 2 x USB 3.0 high-speed cables, supporting transfer rates up to 5Gbps

Package Contents

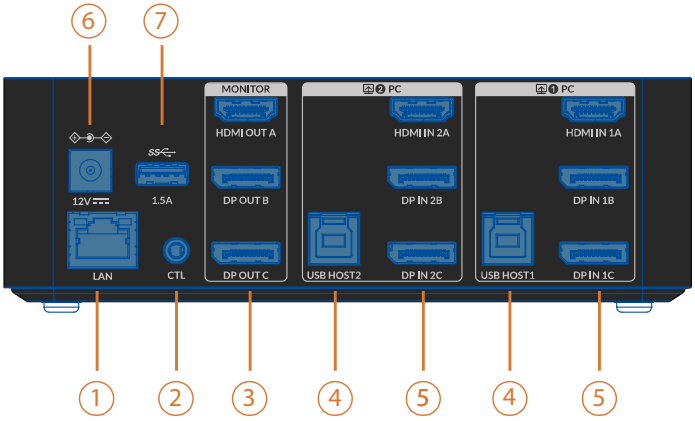
Before you start the installation of the product, please check the package contents:

- Dock Switch x 1
- Power Adapter (DC 12V 3A) x 1
- USB 3.0 Type-A to Type-B Cables (1.8m) x 2
- Wired Button Switch x 1
- User Manual x 1

Panel

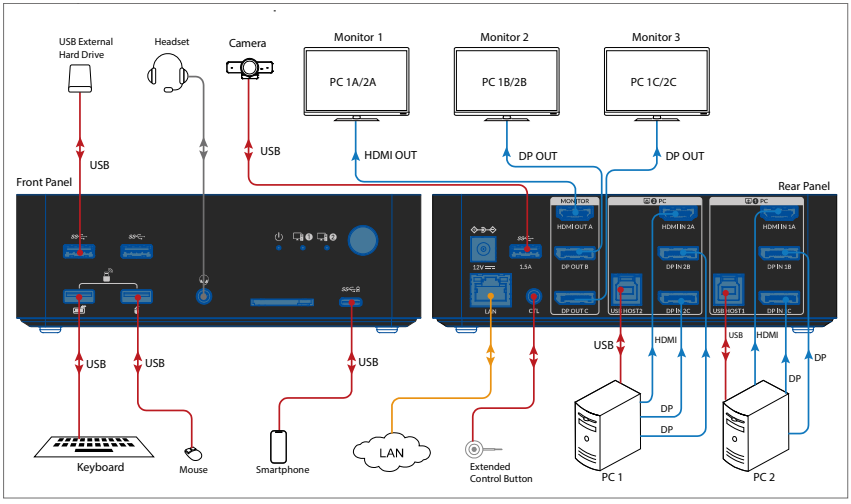


1. USB-A (USB 2.0) | 2. USB-A (USB 2.0) | 3. USB-A (USB 3.0) | 4. 3.5mm Audio Jack | 5. SDXC Slot | 6. USB-C | 7. Power LED | 8. Input LEDs | 9. Switch Button



1. LAN | 2. CTL | 3. HDMI & DP OUT | 4. USB HOST (1&2) | 5. HDMI & DP IN | 6. 12V Input | 7. USB-A (USB 3.0)

Application



When switching input channels between PC 1 (Group 1) and PC 2 (Group 2):

- All USB peripherals connected via the USB-A ports, as well as the connected headphone and the SD card, will switch in sync to the currently selected host.
- When Group 1 is selected, the displays connected to HDMI OUT A, DP OUT B, and DP OUT C will show content from HDMI IN 1A, DP IN 1B, and DP IN 1C respectively. After switching to Group 2, the three displays in Group 2 will display content from HDMI IN 2A, DP IN 2B, and DP IN 2C accordingly.

Note:
The USB-B ports on this device integrate a network pass-through module. Regardless of which input source is currently selected, both PCs connected via the USB HOST Type-B ports can access the network through this device.

Button Control

Users can switch input sources between Group 1 and Group 2 using the front panel button or the external button switch. Please ensure that this device and all related equipment are properly connected and powered on.

Specifications

Technical	
Video Signal	• HDMI IN/OUT: HDMI 2.1 • DP IN/OUT: DP 1.4a & 2.0
Peripheral and Expansion Ports	• USB-C x 1: USB 3.0 (5 Gbps), supports up to 1.5A output • USB-A x 5: ▪ SS x 2: USB 3.0 (5Gbps), shared 2A total output ▪ 1.5A x 1: USB 3.0 (5Gbps), supports up to 1.5A output ▪ mouse & keyboard x 1: USB 2.0 (480Mbps), shared 1.5A output • USB-B x 2: USB 3.0 (5Gbps) • SDXC slot: Data rate up to 832Mbps; supports capacity up to 2TB • LAN: RJ-45, supports 1Gbps Ethernet pass-through
Input/Output Resolutions	**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], 2048x1536[5,6,8,9,10,11,12], 2560x1440[5,6,8,9,10,11,12], 2560x1600[5,6,8,9,10,11,12], 3440x1440[5,6,8,9,10,11,12], 3840x1080[5,6,8,9,10,11,12], 3840x1440[5,6,8,9,10,11,12], 5120x2880[5,6,8,9], **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], 3840x2160[2,3,5,6,8,9,10,11], 4096x2160[2,3,5,6,8,9,10,11], 5120x2160[5,6,8,9], 8K[5,6,8] 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
HDR Format Supported	Supports all mainstream HDR formats including HDR10, HLG, HDR10+, and Dolby Vision
Audio Format Supported	• HDMI/DP: Supports all HDMI 2.1 and DP 2.0 standard audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, and DTS:X • 3.5mm Audio Jack: Stereo
Max Video Data Rate	HDMI: 48Gpbs | DP: 54Gbps (13.5Gbps per channel)

General	
Operating Temperature	0°C to 45°C (32 to 113°F)

General	
Storage Temperature	-20 to 70°C (-4 to 158°F)
Humidity	20% to 90%, non-condensing
Power Consumption	17W (Max, without USB load)
Device Dimensions (W x H x D)	168mm x 55mm x 110mm/ 6.61″ x 2.17″ x 4.33″
Product Weight	0.73kg/1.61lbs

Resolutions and AWG

Resolution	Input Cable Length	Output Cable Length	AWG
8K@60Hz	≤ 2m	≤ 2m	30AWG
4K@165Hz	≤ 2m	≤ 2m	30AWG
4K@120Hz	≤ 2m	≤ 2m	30AWG
4K@60Hz	≤ 3m	≤ 3m	30AWG

Note:

- For optimal performance, use high-quality HDMI cables that comply with official certification standards.
- All data were obtained under controlled laboratory conditions and may vary depending on usage environment.

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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