AV Access iDock B30

AV Access KVM Switch Dock User Manual

Model: iDock B30
Brand: AV Access

1. INTRODUCTION

The AV Access iDock B30 KVM Switch Dock is a versatile solution designed to streamline your workspace by allowing you to control multiple computers with a single set of peripherals and dual monitors. This 10-in-1 docking station connects one laptop and two desktop PCs to all your peripherals, including two monitors, five USB ports, audio ports for your microphone and speaker, and a LAN port for your laptop. It simplifies multi-tasking and helps organize your desk by reducing cable clutter.
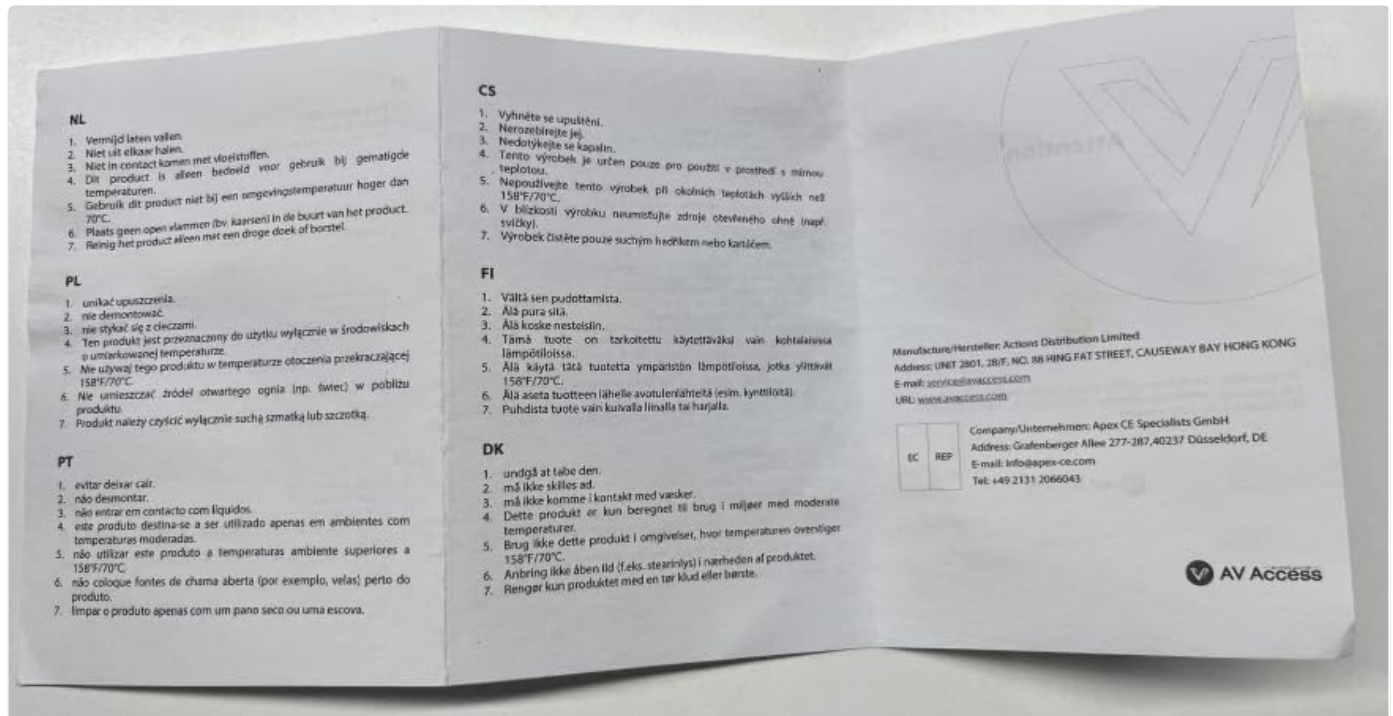

The AV Access iDock B30 KVM Switch Docking Station helps organize your workspace by connecting multiple computers to shared peripherals and monitors.

2. SAFETY INFORMATION

Please read and adhere to the following safety guidelines to ensure proper operation and prevent damage to the device or injury.

- Avoid dropping the product.

- Do not disassemble the product.
- Do not allow the product to come into contact with liquids.
- This product is intended for use only in moderate temperature environments.
- Do not use this product in ambient temperatures exceeding 70°C (158°F).
- Do not place open flame sources, such as lit candles, near the product.
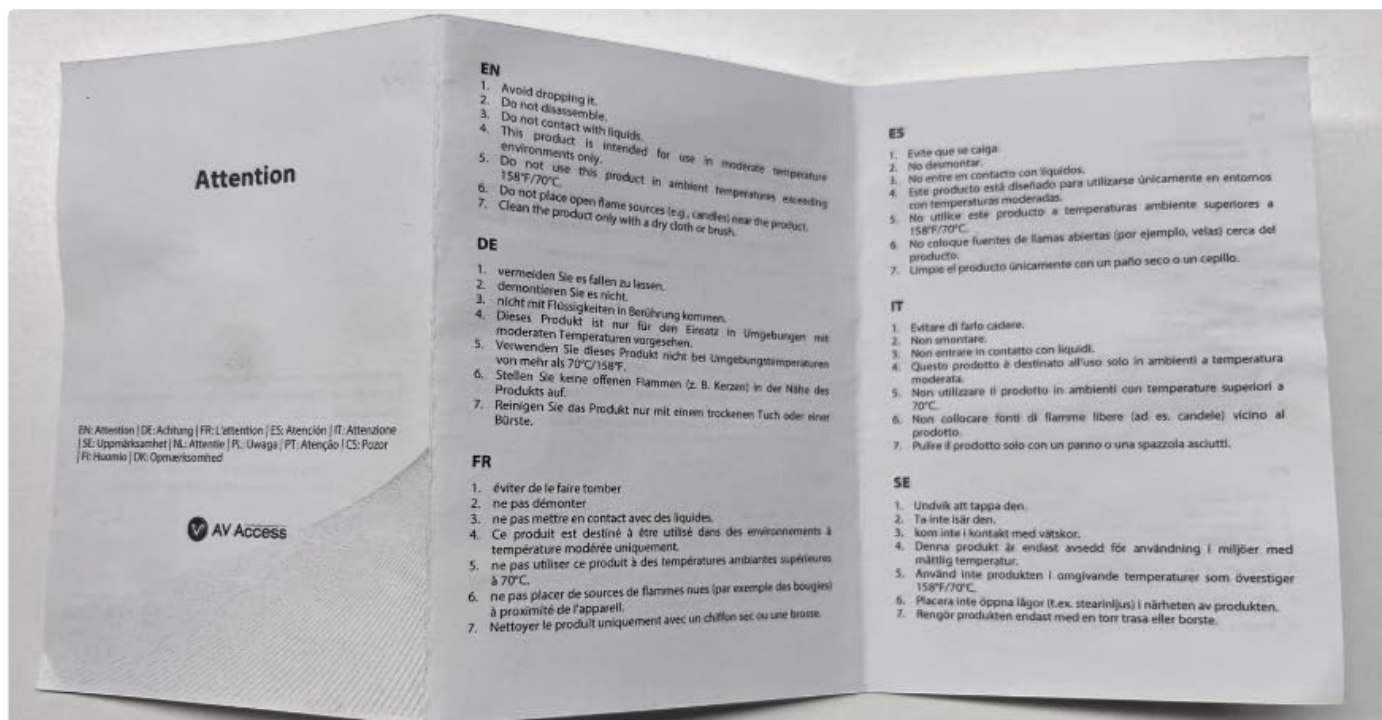- Clean the product only with a dry or soft cloth.

Important safety warnings and usage precautions for the product.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your product package:

- 1x AV Access 4K KVM Switch (iDock B30)
- 1x Power Adapter (DC 20V 6A)
- 1x IR Remote
- 2x USB 3.0 Type-A to Type-B Cable
- 1x USB 3.2 Type-C to Type-C Cable
- 2x HDMI Cable
- 1x User Manual

A visual representation of all items included in the AV Access iDock B30 package.

4. PRODUCT OVERVIEW

4.1. Ports and Features

The iDock B30 KVM Switch Dock features a comprehensive set of ports on both its front and rear panels to accommodate various devices and ensure seamless connectivity.

USB-C KVM Switch with Docking Station for 1 Laptop and 2 PCs

Detailed view of the iDock B30's front and rear panels with numbered labels for each port.

1. **USB 1.1 Port for Keyboard**
2. **USB 2.0 Port**
3. **Mic in**
4. **Line Out**
5. **2x USB 3.0 Ports**
6. **Power Port**
7. **USB 3.0 Port (1.5A) for High-Power Devices, like 4K Webcam**
8. **2xHDM out**
9. **4x HDM in (2 in 1 group) & 2x USB Host**
10. **1G LAN (Ethernet)**
11. **USB-C in for Laptop**

Front Panel:

1. **USB 1.1 Port for Keyboard:** Dedicated port for keyboard connection, essential for hotkey switching.
2. **USB 2.0 Port:** For connecting standard USB peripherals.
3. **Mic In:** 3.5mm audio input for microphone.
4. **Line Out:** 3.5mm audio output for speakers or headphones.
5. **2x USB 3.0 Ports:** High-speed ports for connecting USB 3.0 peripherals.
6. **Power Port:** For connecting the DC 20V 6A power adapter.

Rear Panel:

7. **USB 3.0 Port (1.5A):** High-power USB 3.0 port, ideal for devices like 4K webcams.
8. **2x HDMI Out (Monitor A, Monitor B):** HDMI outputs for connecting dual monitors.
9. **4x HDMI In (2 ports in 1 group) & 2x USB Host:** Input ports for connecting two desktop PCs (each PC requires two HDMI and one USB host connection).

10. **1G LAN (Ethernet):** Gigabit Ethernet port providing internet access for your connected laptop.
11. **USB-C In for Laptop:** Full-featured USB-C port for laptop connection, supporting video, data, and power delivery.

4.2. Key Features

- **Full-Featured USB-C Port:** Supports dual 4K UHD video input, data transfer up to 5Gbps, and 65W power delivery for your laptop.
- **1G Stable Gigabit Ethernet:** Provides reliable internet access for your laptop via the dedicated LAN port.
- **Advanced EDID Emulation Function:** Ensures desktop icons and windows remain in their correct positions after switching, preventing screen flickering and window rearrangement.
- **Ultra-High Refresh Rate Support:** Compatible with HDMI 2.0, DisplayPort 1.4a (USB-C), and HDCP 2.2, supporting resolutions up to 4K@60Hz 4:4:4. Also supports high refresh rates like 1080P@240Hz/165Hz/144Hz/120Hz and 2560x1440@144Hz/120Hz for a smooth experience.
- **High-Speed USB 3.0:** Allows sharing of up to 3x USB 3.0 and 1x USB 2.0 peripherals (keyboard, mouse, printer, scanner, hard disk) with data transfer rates up to 5Gbps.
- **Automatic PC Wake-up:** When switching to a PC in sleeping mode, you do not need to move your mouse or type on the keyboard to wake it up.
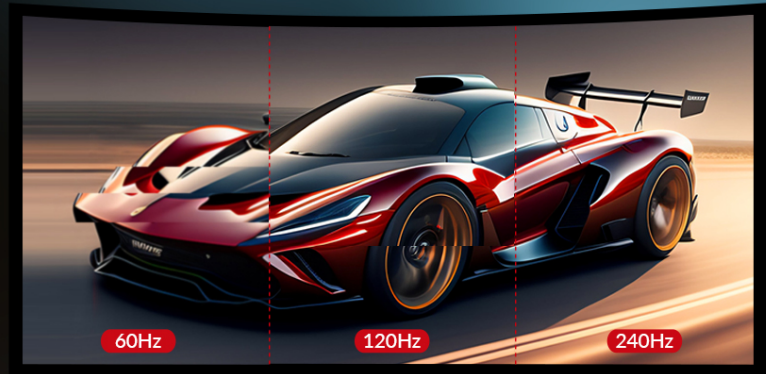
5. SETUP GUIDE

Follow these steps to set up your AV Access iDock B30 KVM Switch Dock:

1. **Connect Monitors:** Connect your two monitors to the HDMI Out ports (Monitor A and Monitor B) on the rear panel of the KVM switch using HDMI cables.
2. **Connect Desktop PCs:** For each desktop PC, connect two HDMI cables from the PC's graphics card to two HDMI In ports on the KVM switch (e.g., HDMI1 A and HDMI1 B for PC1, HDMI2 A and HDMI2 B for PC2). Also, connect a USB 3.0 Type-A to Type-B cable from each PC to the corresponding USB Host port on the KVM switch.
3. **Connect Laptop:** Connect your laptop to the USB-C In port on the rear panel of the KVM switch using the provided USB 3.2 Type-C to Type-C cable. Ensure your laptop's USB-C port supports video output and data transfer for full functionality.
4. **Connect Peripherals:** Connect your keyboard to the USB 1.1 Port for Keyboard on the front panel. Connect your mouse to the USB 2.0 Port. Other USB peripherals (e.g., webcam, hard drive) can be connected to the USB 3.0 ports on the front or rear panels.
5. **Connect Audio:** If desired, connect your microphone to the Mic In port and speakers/headphones to the Line Out port on the front panel.
6. **Connect Ethernet (Laptop):** For wired internet access on your laptop, connect an Ethernet cable from your router/modem to the 1G LAN port on the rear panel.
7. **Power On:** Connect the power adapter to the Power Port on the front panel and plug it into a power outlet. The KVM switch will power on.

Ultra-High Refresh Rate

Supports 1080P@240/165Hz, 2560×1440@144/ 120Hz, ideal for high-speed racing games.

A visual guide to connecting all your devices to the iDock B30 KVM Switch Dock.

5.1. USB-C Port Compatibility

Before purchasing or connecting, please verify the type of USB-C port on your laptop. For full functionality (video output, data transfer, and charging), your laptop's USB-C port must be a Full-Featured USB-C Port or Thunderbolt 3/4 Full Function. Ports that only support data transfer or charging will not provide video output.

Advanced EDID Emulation Function
No desktop icon rearrangement, no screen flickering. All windows won't cram into the main monitor.

Without EDID Emulator
After switching, the PC's desktop will be changed.

AV Access with EDID Emulator
After switching, the PC's desktop stays the same.

Ensure your laptop's USB-C port supports video output and data transfer for optimal performance.

6. OPERATING INSTRUCTIONS

6.1. Switching Between Computers

The AV Access iDock B30 offers three convenient methods for switching between your connected laptop and desktop PCs:

- **Panel Buttons:** Press the input selection buttons on the front panel of the KVM switch to switch to the desired computer.
- **IR Remote:** Use the included IR remote control to switch inputs from a distance.
- **Keyboard Hotkey:** Utilize keyboard hotkeys for quick and efficient switching. Ensure your keyboard is connected to the dedicated USB 1.1 port for hotkey functionality. The hotkey sequence is typically **Tab + 1/2/3** (where 1, 2, or 3 corresponds to the input).

Choose your preferred method for seamless switching between connected devices.

6.2. Display Modes

The KVM switch supports various display modes depending on your operating system:

- **Windows:** Supports extended display mode, allowing you to use both monitors independently for increased productivity.
- **macOS:** Due to limitations with USB-C MST (multi-stream transport) on Mac OS, the USB-C port of a MacBook cannot support extended display mode. Two duplicate contents will be displayed on the monitors.

Understand the display mode capabilities for different operating systems.

6.3. Video Demonstration

Watch this official video for a comprehensive demonstration of the KVM switch's features and setup:

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Official product video demonstrating the AV Access KVM Switch Docking Station for 3 Computers and 2 Monitors, including setup and switching.

7. MAINTENANCE

To maintain the performance and longevity of your AV Access iDock B30, follow these simple maintenance guidelines:

- Regularly clean the exterior of the device with a dry, soft cloth to remove dust and debris.
- Ensure all cable connections are secure and free from kinks or damage.
- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your AV Access iDock B30, refer to the following common problems and solutions:

- **No Display or Incorrect Resolution:**
    - Ensure all HDMI cables are securely connected to both the KVM switch and your monitors/PCs.
    - Verify that the correct input source is selected on the KVM switch.
    - Check your computer's display settings to ensure the resolution and refresh rate are supported by your monitors and the KVM switch.
    - If using a laptop via USB-C, confirm that your laptop's USB-C port supports video output.

- **Hotkey Switching Not Working:**
    - Ensure your keyboard is connected to the dedicated USB 1.1 Port for Keyboard on the front panel. Hotkey functionality requires this specific port.
    - Verify that the hotkey sequence is being entered correctly (e.g., Tab + 1/2/3).

- **USB Peripherals Not Responding:**
    - Check that the USB cables from your PCs to the KVM switch are securely connected.
    - Ensure the peripherals are connected to the correct USB ports on the KVM switch.
    - Try connecting the peripheral directly to the computer to rule out a device issue.

- **Desktop Icons Rearrange or Screen Flickers After Switching:**
    - The iDock B30 features Advanced EDID Emulation to prevent these issues. If they occur, ensure the KVM switch is properly powered and all connections are stable.

- **Mac OS USB-C Display Limitation:**
    - Mac OS does not support USB-C MST (Multi-Stream Transport). Therefore, when a MacBook is connected via USB-C, the two monitors will display duplicate content, not extended displays. This is a system limitation, not a product fault.

9. SPECIFICATIONS

Feature	Specification
Brand	AV Access
Model Number	iDock B30
Product Dimensions (LxWxH)	10.61 x 5.61 x 1.08 inches
Item Weight	4.4 pounds (2 Kilograms)
Color	Grey
Hardware Interface	HDMI, USB Type C
Compatible Devices	Laptops with USB-C ports, Desktop PCs
Total USB Ports (for peripherals)	4 (1x USB 1.1, 1x USB 2.0, 2x USB 3.0)
Total HDMI Ports	4 (Input) + 2 (Output)
USB-C Power Delivery	65 watts

Feature	Specification
Input Voltage	20 Volts (DC)
Max Resolution	4K@60Hz 4:4:4
Supported Refresh Rates	1080P@240Hz/165Hz/144Hz/120Hz, 2560x1440@144Hz/120Hz
USB Data Transfer Rate	Up to 5Gbps (USB 3.0)

10. WARRANTY AND SUPPORT

AV Access is committed to providing high-quality products and excellent customer service. For warranty information and technical support, please use the following contact details:

- **Official Website:** www.avaccess.com
- **Email Support:** info@avaccess.com
- **Customer Service Phone:** +1(518)289-1294
- **Amazon Seller:** ACTIONS GLOBAL US INC (You can contact the seller directly through your Amazon order history for support.)

Please retain your proof of purchase for any warranty claims.