

UNITEK Y-ST03004

UNITEK USB 3.0 to SATA Dual Bay Docking Station (Model Y-ST03004) User Manual

1. INTRODUCTION AND OVERVIEW

The UNITEK USB 3.0 to SATA Dual Bay Docking Station (Model Y-ST03004) provides a convenient solution for connecting 2.5-inch and 3.5-inch SATA I/II/III SSDs, HDDs, and SSHDs to your computer via USB 3.0. It supports a maximum capacity of 2 x 16 TB and features an offline cloning function, allowing direct drive duplication without a computer connection. The device is Plug and Play, requiring no additional drivers, and supports hot-swapping for ease of use.

Key Features:

- External USB 3.0 and internal SATA-III support for all 2.5-inch and 3.5-inch SATA I/II/III SSDs, HDDs, and SSHDs, with a maximum capacity of 2 x 16 TB.
- Features Plug and Play functionality, no driver required, hot-swapping, and quick setup.
- USB 3.0 SuperSpeed interfaces with UASP (USB Attached SCSI Protocol) support, offering up to 70% faster read speeds and 40% faster write speeds compared to traditional USB 3.0. Backward compatible with USB 2.0/1.1.
- Supports offline cloning, allowing duplication of two hard drives without a computer connection. Hot-swappable with LED indicators for power and data transfer status.
- Compact mini design for space-saving and portability. Includes a highly efficient 12V/3A power supply for stable and reliable power delivery.

What's in the Box:

- 1x UNITEK USB 3.0 to SATA HDD Docking Station
- 1x USB 3.0 Type-A to Type-B Data Cable
- 1x 12V/3A Power Adapter
- 1x User Manual

2. SETUP INSTRUCTIONS

Follow these steps to set up your UNITEK Dual Bay Docking Station:

1. **Connect the Power Adapter:** Plug the 12V/3A power adapter into the DC-12V port on the back of the docking station, then plug the adapter into a power outlet.
2. **Connect to Computer (Optional for Data Transfer):** Connect one end of the included USB 3.0 Type-A to Type-B cable to the USB 3.0 port on the docking station and the other end to an available USB 3.0 port on your computer.
3. **Insert Hard Drives:** Gently insert your 2.5-inch or 3.5-inch SATA SSDs or HDDs into the drive bays (Slot A and Slot B) until they are securely seated. Ensure the SATA connectors align correctly.
4. **Power On:** Flip the ON/OFF switch on the back of the docking station to the 'ON' position. The power LED indicator will light up.

High Compatibility

Supports all 2.5"/3.5" SATA I/II/III HDD SSD
Supports 2 x 18TB hard drives

2.5" × 2



2.5"+3.5"



3.5" × 2



Image: The docking station supports both 2.5-inch and 3.5-inch SATA drives in its dual bays.



Image: The docking station is compatible with PC, Mac, and Linux systems.

3. OPERATING INSTRUCTIONS

3.1. Data Transfer Mode

Once the docking station is connected to your computer and powered on, and drives are inserted, they should appear as removable storage devices in your operating system. You can then drag and drop files, copy, paste, or perform any other file management operations as you would with any external drive.

- The USB 3.0 interface with UASP support ensures high-speed data transfer.
- LED indicators on the front panel will show drive activity (data transfer).

Super Speed

With UASP (USB Attached SCSI Protocol)

Read Speed	Write Speed
70% Read Speed	40% Write Speed
USB 3.0 with UASP	USB 3.0 with UASP
Traditional USB 3.0	Traditional USB 3.0

Image: High-speed data transfer is achieved with UASP support, showing improved read and write performance.

3.2. Offline Clone Function

The offline clone function allows you to duplicate a source drive (Drive A) to a target drive (Drive B) without connecting to a computer. This is useful for creating backups or upgrading drives.

Important: The target drive (Drive B) must be equal to or larger in capacity than the source drive (Drive A). All data on the target drive (Drive B) will be erased during the cloning process.

1. **Prepare Drives:** Ensure both the source drive (Drive A) and target drive (Drive B) are properly inserted into their respective slots (Drive A into the 'Source' slot, Drive B into the 'Target' slot).
2. **Disconnect from Computer:** Ensure the USB cable is disconnected from your computer. The docking station must be operating independently for offline cloning.
3. **Power On:** Ensure the docking station is powered on.
4. **Initiate Clone:** Press and hold the 'CLONE' button on the front panel for approximately 3 seconds until the 100% clone LED indicator starts flashing.

5. **Confirm Clone:** Quickly release the 'CLONE' button and then press it again immediately (a short press). The 25% clone LED will start flashing, indicating the cloning process has begun.
6. **Monitor Progress:** The LED indicators (25%, 50%, 75%, 100%) will light up sequentially to show the cloning progress.
7. **Completion:** When all four clone progress LEDs (25%, 50%, 75%, 100%) are solid blue, the cloning process is complete.



Image: Visual guide for the offline clone function, illustrating drive placement and progress indicators.

Video: This video demonstrates the setup, UASP speed, and the offline cloning process of the UNITEK Dual Bay Docking Station. It shows how to connect the device, insert drives, and initiate the cloning function by holding and then quickly pressing the clone button.

4. MAINTENANCE

To ensure the longevity and optimal performance of your docking station:

- Keep the device in a clean, dry environment, away from direct sunlight, extreme temperatures, and humidity.

- Avoid dropping or subjecting the device to strong impacts.
- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or solvents.
- Ensure proper ventilation around the device during operation.
- Always safely eject drives from your computer before removing them from the docking station to prevent data corruption.

5. TROUBLESHOOTING

If you encounter issues with your docking station, refer to the following common problems and solutions:

- **Drive Not Recognized:**
 - Ensure the power adapter is securely connected and the docking station is powered on.
 - Verify that the USB cable is firmly connected to both the docking station and your computer.
 - Check if the hard drive is properly seated in the bay.
 - Try connecting the docking station to a different USB port on your computer.
 - For new drives, they may need to be initialized, partitioned, and formatted in Disk Management (Windows) or Disk Utility (Mac) before they appear.
- **Slow Data Transfer Speeds:**
 - Ensure you are connected to a USB 3.0 port on your computer. USB 2.0 ports will result in slower speeds.
 - Verify that your operating system and drivers support UASP.
 - The speed of the hard drive itself can be a limiting factor.
- **Offline Clone Not Starting:**
 - Ensure the USB cable is disconnected from the computer. Offline cloning requires the device to be standalone.
 - Confirm that the target drive (Drive B) has a capacity equal to or greater than the source drive (Drive A).
 - Make sure both drives are securely inserted.
 - Follow the cloning procedure precisely: hold the CLONE button for 3 seconds until the 100% LED flashes, then quickly release and press it again.
- **Cloning Process Stops Prematurely:**
 - Check for any loose connections or power interruptions.
 - Ensure the drives are in good working condition. A faulty drive may cause the cloning process to fail.

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	UNITEK
Model	Y-ST03004
Product Dimensions	11 x 9.98 x 6.99 cm; 635.03 g
Digital Storage Capacity	Up to 16 TB per bay (32 TB total)
Hard Drive Interface	Serial ATA (SATA I/II/III)

Hard Drive Description	Solid State Flash Memory (SSD), Hard Disk Drive (HDD)
Hardware Platform	PC, Mac, Linux
Hardware Interface	USB 3.0
Compatible Devices	PC, Laptop, MacBook
Special Features	Hard Drive Docking Station, Mini Dual Bay, Offline Clone Function, UASP
Power Output	36 Watts
Power Source	DC (12V/3A Adapter)
Data Transfer Rate	6 Gigabits per second (SATA III)
Number of Ports	2 (for drives)
Connector Type	USB
Material Type	ABS
Form Factor	2.5 inches, 3.5 inches
Product Weight	635 g (1.4 lbs)

7. WARRANTY AND SUPPORT

UNITEK products are designed for reliability and performance. This product comes with a standard manufacturer's warranty. For specific warranty details, please refer to the warranty card included in your package or visit the official UNITEK website.

If you require technical assistance, troubleshooting, or have any questions regarding your UNITEK USB 3.0 to SATA Dual Bay Docking Station, please contact UNITEK customer support through their official channels. Contact information can typically be found on the product packaging, the UNITEK website, or within the included user manual.

