

Product Models	Forensic UltraDock (Model: FUDv5.5)
U.S. Patent No.	8,090,904
Drive Interface Types & Speeds	PATA/IDE: up to 133 MB/s SATA (with eSATA cable): up to 6 Gbps
Host Interface Types & Speeds	eSATA: up to 6 Gbps USB 3.0: up to 5 Gbps FireWire 800: up to 800 Mbps USB Micro-B: up to 480 Mbps (Admin configuration only)
Drive Types Supported	2.5" and 3.5" rotational and solid state SATA drives 3.5" rotational IDE/PATA drives 2.5" rotational IDE/PATA drives*, Hitachi 1.8" drives*, Toshiba 1.8" drives*, Mac-Book Air 2010*, MacBook Air 2011*, mSATA*, mini PCIe PATA*, mini PCIe SATA*, mini PCIe USB* *Requires the appropriate CRU SATA or PATA adapter
Host Data Connectors	One (1) USB 3.0 connector (backwards compatible with USB 2.0) One (1) eSATA connector Two (2) FireWire 800 connectors
Supported Operating Systems	Windows 10, 8, 7, and Vista Windows Server 2012 and 2008 product families Mac OS X 10.4.x or higher (USB 3 requires 10.8 or later) Linux distributions that support the connection type used
Compliance	EMI Standard: FCC Part 15 Class A, CE EMC Standard: EN55022, EN55024 RCM
Product Weight	0.4 pounds (0.18 kg)
Product Dimensions	2.95" x 4.33" x 1.06" (75mm x 110mm x 27mm)
Technical Support	Your investment in CRU products is backed up by our free technical support for the lifetime of the product. Contact us through our website, cru-inc.com/support or call us at 1-800-260-9800 or +1-360-816-1800.

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Product Warranty

CRU warrants this product to be free of significant defects in material and workmanship for a period of two years from the original date of purchase. CRU's warranty is nontransferable and is limited to the original purchaser.

Limitation of Liability

The warranties set forth in this agreement replace all other warranties. CRU expressly disclaims all other warranties, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose and non-infringement of third-party rights with respect to the documentation and hardware. No CRU dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty. In no event will CRU or its suppliers be liable for any costs of procurement of substitute products or services, lost profits, loss of information or data, computer malfunction, or any other special, indirect, consequential, or incidental damages arising in any way out of the sale of, use of, or inability to use any CRU product or service, even if CRU has been advised of the possibility of such damages. In no case shall CRU's liability exceed the actual money paid for the products at issue. CRU reserves the right to make modifications and additions to this product without notice or taking on additional liability.

FCC Compliance Statement: "This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

In the event that you experience Radio Frequency Interference, you should take the following steps to resolve the problem:

- 1) Ensure that the case of your attached drive is grounded.
- 2) Use a data cable with RFI reducing ferrites on each end.
- 3) Use a power supply with an RFI reducing ferrite approximately 5 inches from the DC plug.
- 4) Reorient or relocate the receiving antenna.



Protecting Your Digital Assets™



CRU® WiebeTech® Forensic UltraDock Quick Start Guide

Features

- Provides write-blocked access to attached drives
- Four separate host attachment options (USB 3.0, USB 2.0, FireWire 800, and eSATA) for compatibility with virtually any computer
- Multiple LEDs indicate operational status, including disk activity, hidden area detection, error state, and the status of power input and output
- LCD menu allows user to configure settings and view information on attached drives
- Detects and indicates hidden areas (HPAs or DCOs) found on hard drives
- Able to temporarily or permanently unhide HPAs and DCOs
- Aluminum case for rugged durability and excellent heat dissipation
- Compatible with forensic acquisition and analysis software





Download a copy of the complete User Manual at www.cru-inc.com/products/wiebetech/wiebetech_forensic_ultradock_v5/

FORENSIC DEVICE USER ADVISORY

Before using this tool for accessing sensitive data, verify the write-blocking function of the product. You can do so by downloading and installing the Forensic Software Utility and following the instructions in its User Manual for performing a write-block test.

Download here: www.cru-inc.com/support/software-downloads/forensic-software-utility/

1 INSTALLATION STEPS

- Use the provided screws to attach the protective metal plate to the bottom of your 3.5" hard drive. This step is optional. The purpose of the bottom plate is to provide protection to the drive electronics of your hard drive.
- If you're attaching an IDE/PATA drive, configure the jumpers on the rear of the drive to Master. Consult the instructions on your hard drive's label.
- Connect the Forensic UltraDock to the drive (or adapter), using the IDE ribbon and Molex power cables for IDE/PATA drives or the unified SATA data/power cable for SATA drives.
- If you're using an adapter, connect the drive to the adapter.
- Connect the eSATA, FireWire, or USB cable from your computer to the corresponding port on the Forensic UltraDock.
- Provide power to the Forensic UltraDock. Connect the included AC adapter or a SATA power cable from the inside of your computer case.
- Turn on the power switch.

You are now ready to use the Forensic UltraDock to access the drive.

2 HOW TO USE THE LCD INTERFACE

Use the LCD and 4-button navigation interface to view information about the attached drive and the Forensic UltraDock. On the 4-button interface, **Up** and **Down** allow you to scroll through options, while **Enter** selects an option and **Back** goes back to the previous screen.



MENU ITEM	ACTION
View Drive Info	Displays a submenu of items that display information about the attached drive, including temperature, capacity, serial number, firmware revision, S.M.A.R.T. information, and more.
View Dock Info	Displays a submenu of items that display information about the Forensic UltraDock, including the product name, unique ID number, and firmware version.
Create HPA/DCO	This option is disabled since HPAs (host protected areas) and DCOs (device configuration overlays) can only be created with read-write mode, a feature not available on the Forensic UltraDock.

3 HPA/DCO HANDLING

The Forensic UltraDock will check to see if any HPAs (host protected areas) or DCOs (device configuration overlays) are present on startup. If an HPA or DCO is detected, the Forensic UltraDock will indicate that one has been found and ask what you want to do with it. Use the **Up** and **Down** buttons to scroll through the options, shown below, and then press **Enter** to select an option.

DCO FOUND	HPA FOUND
Keep DCO – Keeps the DCO	Keep HPA – Keeps the HPA
Remove DCO – Removes the DCO, exposing any hidden data within that area	Remove HPA Temp – Temporarily removes the HPA
	Remove HPA Perm – Permanently removes the HPA

4 UPDATING FIRMWARE

CRU provides free firmware updates for the Forensic UltraDock through our Configurator application. Download it and the documentation here: www.cru-inc.com/support/software-downloads/configurator-software-download/

5 FORENSIC SOFTWARE UTILITY

The Forensic UltraDock is compatible with CRU's Forensic Software Utility application. This software allows you to perform a write-block test and includes the ability to display details about attached drives and allows you to save that data to a file for easy inclusion in a case report.

Download it here: www.cru-inc.com/support/software-downloads/forensic-software-utility/