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IODD Wiki (Multi Language) – External links

/go to Wiki site
First of all, thank you for using IODD.

IODD is 2.5-inch external hard drive case. There is a virtual ODD and HDD virtual functions.

As well as it equipped a variety of additional functions.

IODD2531 / 2541 are registered trademarks of IODD Co. cautioned warranty applies only to the common use range.

For more details, please review the notes below.

Be sure to observe these precautions.

■ IODD Inc. does not provide the HDD with the device. Therefore if there are any issues with the HDD, please contact the manufacturer or the place of purchase.

■ IODD Inc. assumes no responsibility for any problems caused by use of the product outside of its intended use.

■ IODD Inc. assumes no responsibility for the loss of data stored on the device.

■ IODD Inc. assumes no responsibility for the loss of data due to the loss of the password, nor is IODD responsible for any other issues caused by the loss of the password.

■ Avoid leaving the device in high temperature or humid environments because it can cause damage to it. In the case of damage, due to being placed in these kinds of environments, the warranty may become void. The repairs would be made at your expense.

■ Placing the device near strong magnetic objects may cause the device to malfunction or data error.

■ Removing or breaking the warranty label will void the warranty.

■ Using unstable powered PC USB ports, USB extension cables, or BUS powered USB hubs can cause unstable behavior in the device and may even cause the loss of data or an outage.

■ Do not dismantle the device. Doing so will void the warranty.
This manual is a guide for IODD 2541 and IODD 2531.

- There is no icon for that related to both IODD-2531 and IODD-2541.

- the description that is related to IODD-2541 is denoted by the following indications.

  2541

    section title

- the description that is related to IODD-2531 is denoted by the following indications.

  2531

    section title

- the Caution information is denoted by the following indications.
  Please note essential when you use the feature

- the tip information is denoted by the following indication.

- Hyperlink is displayed as an icon(🔗). that is linked to the associated page in this manual or related website.

- The contents of this manual are based on the current latest firmware.  
  (2541: 69X_B05 & 79X_B05 releases / 2531: 1558 version) 
  This manual can be improved to meet new firmware.

IODD official website –🔗 http://www.IODD.kr
### Product Components and Specifications – 2541

#### Component

<table>
<thead>
<tr>
<th>Component</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>IODD body</td>
<td>1</td>
</tr>
<tr>
<td>Pouch</td>
<td>1</td>
</tr>
<tr>
<td>Screws and bolts set</td>
<td></td>
</tr>
<tr>
<td>LCD protective film</td>
<td>1</td>
</tr>
<tr>
<td>USB 3.0 cable</td>
<td>1</td>
</tr>
<tr>
<td>Warranty card</td>
<td>1</td>
</tr>
<tr>
<td>Quick guide</td>
<td>1</td>
</tr>
</tbody>
</table>

| Mini Screw x1, bolts X4          |     |

#### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encryption</td>
<td>AES256bit-xts H/W based 16-Digit encryption</td>
</tr>
<tr>
<td>Display</td>
<td>128 x 32 Dots</td>
</tr>
<tr>
<td>Control interface</td>
<td>mTouch capacitive sensing</td>
</tr>
<tr>
<td>Dimension</td>
<td>146 mm X 80.8 mm X 14 mm (LxWxH)</td>
</tr>
<tr>
<td>Weight</td>
<td>91g (except HDD)</td>
</tr>
<tr>
<td>Material</td>
<td>Aluminum Alloy, Acryl, Poly Carbonate(PC)</td>
</tr>
<tr>
<td>External Interface</td>
<td>USB 3.0 / USB 2.0 / USB 1.1</td>
</tr>
<tr>
<td>Internal Interface</td>
<td>SATA I/II/III (compatible)</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>DC +5V USB power</td>
</tr>
<tr>
<td>Support drive</td>
<td>2.5 inch HDD and SSD, (Thickness is 9.5 mm)</td>
</tr>
<tr>
<td>Support files</td>
<td>ISO / VHD / VMDK / DSK / RMD / IMA</td>
</tr>
<tr>
<td>OS</td>
<td>Windows XP or later / MAC OSX or later / Linux</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Manufacturers / Country</td>
<td>IODD CO., LTD. / Republic of Korea</td>
</tr>
</tbody>
</table>

*The components and specifications, country of origin are subject to change without notice.*
# Product Components and Specifications – 2531

## Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>IODD body</td>
<td>1</td>
</tr>
<tr>
<td>Pouch</td>
<td>1</td>
</tr>
<tr>
<td>Screws and bolts set</td>
<td>Mini Screw x1, bolts X4</td>
</tr>
<tr>
<td>USB 3.0 cable</td>
<td>1</td>
</tr>
<tr>
<td>Warranty card</td>
<td>1</td>
</tr>
<tr>
<td>Quick guide</td>
<td>1</td>
</tr>
</tbody>
</table>

## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>128 x 32 Dots</td>
</tr>
<tr>
<td>Control interface</td>
<td>3-state left thumb lever (Jog Switch/Button) and Back/up Button</td>
</tr>
<tr>
<td>Dimension</td>
<td>135 mm X 78.6 mm X 13.1 mm (LxWxH)</td>
</tr>
<tr>
<td>Weight</td>
<td>96g (except HDD)</td>
</tr>
<tr>
<td>Material</td>
<td>Aluminum Alloy, Acryl, Poly Carbonate(PC)</td>
</tr>
<tr>
<td>External Interface</td>
<td>USB 3.0 / USB 2.0 / USB 1.1</td>
</tr>
<tr>
<td>Internal Interface</td>
<td>SATA I/II/III (compatible)</td>
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<td>DC +5V USB power</td>
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<tr>
<td>Support drive</td>
<td>2.5 inch HDD (Thickness is 9.5 mm)</td>
</tr>
<tr>
<td>Support files</td>
<td>ISO / VHD / VMDK / DSK / RMD / IMA</td>
</tr>
<tr>
<td>OS</td>
<td>Windows XP or late / MAC OSX or later / Linux</td>
</tr>
<tr>
<td>Color</td>
<td>Black &amp; Silver</td>
</tr>
<tr>
<td>Manufacturers / Country</td>
<td>IODD CO., LTD. / Republic of Korea</td>
</tr>
</tbody>
</table>

※ The components and specifications, country of origin are subject to change without notice.
Chapter 1. System / Boot Requirements

System Requirements

- A host system that can support USB 1.1/2.0/3.x interfaces.
  (USB 1.x does not support multi-device connections.)

- A system that can boot via USB-CDROM/USB-HDD from the BIOS. IODD emulates a USB-CDROM and HDD virtually. If your PC does not support the physical USB-CDROM / HDD boot, IODD does not support boot functions.

- A system with a USB port capable of holding voltages over 4.75V with a maximum current of 900mA.

- A HDD that is less than 9.5 mm thick and has a SATA interface.

Boot Requirements

- When booting through the USB-CDROM, always use a bootable ISO file.

- When booting through the USB-CDROM, the OS installation (ISO) must include the USB host driver for the PC.
  ❌ In the case of Intel Chipset Skylake, Windows 7 Installation CD does not include that driver. You may experience an error when installing Windows 7. If so, refer to the following page, install a virtual USB drive.

  [Create a Bootable virtual USB thumb drive using the Rufus]

- When booting through the USB-HDD / virtual Flash memory, always use a bootable VHD(RMD) file.

- The USB device must be enabled in boot priority list of BIOS.

Cautions

- Note: If your PC is unable to boot from USB device, contact your PC manufacturer for assistance. Make sure your PC supports "USB booting."

- For the latest Sky Lake (Skylake) board and some boards may not support external USB-CDROM boot. Refer to the next page, please use the boot from the virtual USB drive functions.

  [Create a Bootable virtual USB thumb drive using the Rufus]
USB 3.0 Port
The USB 3.0 micro-B type port.

Operation LED
It represents a connection and transfer status.
When connected to USB 3.0 - blue
When connected to USB 2.0 - white

LCD display
This displays file list and the status of IODD.

12-key touchpad
Enter the password and IODD Control

Enter the password and IODD Control
Chapter 1. 2541 Part Names

Cover mounting holes
Use the screws to join the main body and the rear cover.

Firmware reset button
Please refer to the link.

Warranty label
The product warranty information is listed. You can check the serial. Be careful not to damage.

SATA connector
2.5-inch HDD and SSD can be connected. Attach the HDD to match the orientation of the SATA connectors.

2.5-inch HDD or SSD (optional)
IODD does not manufacture / sell HDD and SSD. If there is a problem with the hard disk, then please contact your hard disk service center or the place of purchase.
Chapter 1. 2531 Part Names

**Jog Switches**
Navigating and Selecting a file
Menu Entering and Exiting

**Back / Up button (function button)**
Unmount VHD files, go to parent folder or previous menu.

**USB 3.0 Port**
The USB 3.0 micro-B type port.

**Operation LED**
It represents a connection and transfer status. When connected to USB 3.0 - blue, when connected to USB 2.0 - white.

**LCD display**
This displays file list and the status of IODD.

**Screw holes**
This combines two main bodies.

**Warranty label**
The product warranty information is listed. You can check the serial. Be careful not to damage.

**Side rubber**
For the lifting tighten or loosen the screw on the rubber when assembled and combined.
Chapter 1. 2531 Part Names

- **Firmware reset button**
  When connected to a PC, when held down for more than 5 seconds to proceed with the firmware initialization. For more details, please refer to the link.

- **SATA connector**
  2.5-inch HDD and SSD and can be connected. Attach the HDD to match the orientation of the SATA connectors.

- **2.5-inch HDD or SSD (optional)**
  IODD does not manufactured / sold HDD and SSD. If there is a problem with the hard disk, then please contact your hard disk service center or the place of purchase.
How to assemble 2541

1. Remove the aluminum cover.

2. Connect the HDD to the SATA connector.

3. Replace the aluminum cover and fasten it using the two plate screws.
1. Remove IODD body and aluminum case.

2. Connect the HDD to the SATA connector.

3. Replace the aluminum case and lift side rubber. Fasten it using the two plate screws.
### LCD status Guide

<table>
<thead>
<tr>
<th>Function</th>
<th>Col.</th>
<th>Icon</th>
<th>State</th>
<th>This icon shows</th>
</tr>
</thead>
<tbody>
<tr>
<td>Write Protection</td>
<td>1</td>
<td><img src="image" alt="lock" /></td>
<td>ON</td>
<td>the drive is write protected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="lock" /></td>
<td>OFF</td>
<td>the drive is write enabled.</td>
</tr>
<tr>
<td>Virtual ODD</td>
<td>2</td>
<td><img src="image" alt="cd" /></td>
<td>ISO Mounted</td>
<td>a optical disc is mounted.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="cd" /></td>
<td>ISO Unmount</td>
<td>no optical disc is mounted.</td>
</tr>
<tr>
<td>Mode select</td>
<td>3</td>
<td><img src="image" alt="dual" /></td>
<td>Dual Mode</td>
<td>1 USB CD-ROM and 1 USB HDD</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="dual" /></td>
<td>ODD Mode</td>
<td>1 USB CD-ROM</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="dual" /></td>
<td>HDD Mode</td>
<td>1 USB HDD</td>
</tr>
<tr>
<td>Standby Mode</td>
<td>4</td>
<td><img src="image" alt="standby" /></td>
<td>Standby</td>
<td>power saving mode is active</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="standby" /></td>
<td>Set timer</td>
<td>Displays set stanby status timer</td>
</tr>
<tr>
<td>Virtual HDD</td>
<td>6</td>
<td><img src="image" alt="vhd" /></td>
<td>VHD(RMD) Mounted</td>
<td>one or more virtual drives are mounted (upto 4)</td>
</tr>
<tr>
<td>Encryption</td>
<td>7</td>
<td><img src="image" alt="aes" /></td>
<td>ON</td>
<td>AES256 Encryption enabled</td>
</tr>
<tr>
<td>USB Speed</td>
<td>8</td>
<td><img src="image" alt="usb1" /></td>
<td>USB 1.1</td>
<td>USB 1.1 connection (16Mbps)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="usb2" /></td>
<td>USB 2.0</td>
<td>USB 2.0 connection (480Mbps)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="usb3" /></td>
<td>USB 3.0</td>
<td>USB 3.0 connection (5.0Gbps)</td>
</tr>
</tbody>
</table>

■ This information are based on the firmware 69X_B05/79XB-05 version. and can be improved to meet new firmware.
# 2531 LCD Screen display

- LCD status Guide

<table>
<thead>
<tr>
<th>Function</th>
<th>Col.</th>
<th>Icon</th>
<th>State</th>
<th>This icon shows</th>
</tr>
</thead>
<tbody>
<tr>
<td>Write Protection</td>
<td>1</td>
<td><img src="image" alt="Icon" /></td>
<td>ON</td>
<td>the drive is write protected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Icon" /></td>
<td>OFF</td>
<td>the drive is write enabled.</td>
</tr>
<tr>
<td>Virtual ODD</td>
<td>2</td>
<td><img src="image" alt="Icon" /></td>
<td>ISO Mounted</td>
<td>a optical disc is mounted.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Icon" /></td>
<td>ISO Unmount</td>
<td>no optical disc is mounted.</td>
</tr>
<tr>
<td>Mode select</td>
<td>3</td>
<td><img src="image" alt="Icon" /></td>
<td>Dual Mode</td>
<td>1 USB CD-ROM and 1 USB HDD</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Icon" /></td>
<td>ODD Mode</td>
<td>1 USB CD-ROM</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Icon" /></td>
<td>HDD Mode</td>
<td>1 USB HDD</td>
</tr>
<tr>
<td>Standby Mode</td>
<td>4</td>
<td><img src="image" alt="Icon" /></td>
<td>Standby</td>
<td>power saving mode is active</td>
</tr>
<tr>
<td>Virtual HDD</td>
<td>5</td>
<td><img src="image" alt="Icon" /></td>
<td>VHD(RMD) Mounted</td>
<td>one or more virtual drives are mounted (upto 4)</td>
</tr>
<tr>
<td>USB Speed</td>
<td>7</td>
<td><img src="image" alt="Icon" /></td>
<td>USB 1.1</td>
<td>USB 1.1 connection (16Mbps)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Icon" /></td>
<td>USB 2.0</td>
<td>USB 2.0 connection (480Mbps)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Icon" /></td>
<td>USB 3.0</td>
<td>USB 3.0 connection (5.0Gbps)</td>
</tr>
</tbody>
</table>

- This information are based on the firmware 1558 version. and can be improved to meet new firmware.
2541 Key functions

Key Defines of IODD 2541.

TIP
There are two ways to touch a button. One is just to touch, and the other is to touch a button for 3 sec. Please see the following icons.

- Click
- Press and hold 3 seconds

General Navigation

Basic - file or menu navigation
- If CD(ISO file) is loaded - unloads CD(ISO file)

Load or unload CD (ISO file) & VHD (RMD file)

Enter to menu or exit

During PIN input
Delete last character (backspace)

Go to Root folder (resync file system)

Unload All VHD (RMD) files

Load or unload with saving loading status instantly

Mount only one VHD immediately

Save loading status and safely remove

Reboot IODD (USB reconnect)
2531 Key functions

Key Defines of IODD 2531.

TIP

There are 3 ways to press a button. First is just to press a button. and the 2nd is to press a button for 3 seconds. the 3rd is to press a button during startup.

- One Press
- Press(Up/Down) and hold 3 sec.

BASIC

Jog switch up/down
ISO(VHD,RMD) file navigation if CD is loaded - unload CD(ISO)

Jog button one press
load (ISO file)&VHD ('instant save' menu is on - loading information will be saved instantly)

Jog press&hold
Go to menu

Jog Switch down&hold
Save loading status and safely remove

Jog Switch up&hold
Go to root folder

Back/up button one press
Go to root folder

Back/up button press&hold
unload all VHD(RMD)

Back/up button press&hold
the drive is write-protected

StartUp keys
press button during startup

Jog button Press&hold
All settings are restored to default. (Dual Mode)

Jog Switch up/down&hold
UP - CD Mode
Down - HDD Mode
Connecting to PC

Be careful when connect to a PC.
The external HDD is very sensitive to electrostatic discharge and short circuit. Please be sure to first connect the cable and the PC and IODD next. When you disconnect from the PC to turn the PC off or unplug After safe removal in the operating system.

1. First, please connect USB cable to a PC
   It is recommend that you not use the USB ports on the front of your PC. It may cause issues, such as partition damage due to connectivity error. Connect the rear port.

2. Connect the cable and IODD.
   Coming to power IODD of LED and LCD will be recognized on the PC. LED and LCD displays are different depending on the connection speed.

   TIP @ USB connection

<table>
<thead>
<tr>
<th>2541</th>
<th>2531</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB 1.1</td>
<td>USB 2.0</td>
</tr>
<tr>
<td>S5</td>
<td>S5</td>
</tr>
<tr>
<td>2541</td>
<td>2531</td>
</tr>
<tr>
<td>USB 1.1</td>
<td>USB 2.0</td>
</tr>
<tr>
<td>S5</td>
<td>S5</td>
</tr>
</tbody>
</table>

3. Check the screen of IODD.
   IODD2541 / IODD2531 is displayed, wait for a few seconds. The screen on the left will be displayed.

   Even though the device is connected to a USB 3.0 port, it may perform as slow as USB 1.1 or USB 2.0 speeds.

   (If this is the case, contact your PC manufacturer for optimal BIOS settings to improve your connection speeds.)
Chapter 1. Check Basic Operations

Before use, check the basic operation mode.

**2541 Check Basic Operations**

- **Make sure that the touch screen is working properly.** If the touch screen is not working properly, it may be due to the low electrical current of the USB port the device is connected to.
- **Check the cable for defectiveness.** Make sure that the power is on and that both, USB 3.0 and 2.0, are recognized. If they are not working properly, it may be due to a simple defective cable. IODD uses the USB 3.0 Micro-B type cable.
- **Please check the LED and LCD.** Does the backlight turned on properly? Does the screen is clear? Because the LCD blink every time you press the button on the touch IODD 2541? If so, good product.
- **Press & hold key "3" for 2 seconds to reconnect the USB.** Press & hold key "1" for 2 seconds to safely remove the USB. Safe removal of the USB may not work when files on the HDD are in us.

**2531 Check Basic Operations**

- **Check the jog button and back / up button.** Keeping jog up / down / press / press & hold and open menu. If the delay is caused in the operation likely to be delayed due to a HDD read error. If so, please check by removing the HDD or services received after the HDD manufacturer.
- **Check the cable for defectiveness.** Make sure that the power is on and that both, USB 3.0 and 2.0, are recognized. If they are not working properly, it may be due to a simple defective cable. IODD uses the USB 3.0 Micro-B type cable.
- **Please check the LED and LCD.** Does the backlight turned on properly? Does the screen is clear? If so, good product.
CHAPTER 1 Finished

■ Check defects

Are all the components listed on page 5/6 included? □ Yes □ No
Is the Warranty label on device well attached? □ Yes □ No
Is there an issue placing the cover back onto the device after connecting the HDD? □ Yes □ No
When the device is connected to a USB cable, does the connection appear to be strong? □ Yes □ No
After the device has made a USB connection, is there any defect on the LCD screen? □ Yes □ No

■ For the latest information, please visit the Official site and IODD Wiki

🔗 Official website - http://www.IODD.kr
🔗 IODD Wiki - http://en.IODD.kr
CHAPTER 2. IODD Basic Guide

This chapter introduces the main features.
Chapter 2. AES256 Encryption Introduction

2541 AES256 Encryption Introduction

AES256BIT-XTS Encryption

AES256bit-xts is the **best existing encryption algorithm** that using not only US Department of Defense and but also leading companies in the world. Nobody can read the hard disk drive without passwords.

**Fast and convenient**

A program or utility is not required for using the encrypted HDD. If you only enter a password when PC is connected, you can use the same as using a regular HDD. Of course, the **HDD access speed is not slow.**

**The safest key. It is your memory**

Half of keys are in hard drive and other half in your memory. IODD cannot be read except owner. **HDD encoding, now it is not optional but essential.**

**do not worry about enclosure defect**

because the half of key is stored in hard disk drive, **you don’t lose your passwords if you change the product.** On the other hands, because products of other companies store the half of keys in the circuit memory, you have to visit service center and identify the user when you need follow-up service.

**IODD are compatible to each other**

IODD-2541 and SECURE DOCK (IODD-3544) can be used by same PIN.
FAQ about Encryption

**Q.** If set or reset password, is the data of HDD preserved?

**A.** No, it is all destroyed.

**Q.** Can I change many HDDs with different encryption PIN with one IODD-2541?

**A.** Yes you can. No limit.

**Q.** It can be used as it is in IODD a hard disk that has been used by third-party encryption external hard case? Also what about the reverse?

**A.** No, it cannot. and vice versa.

**Q.** I don’t remember my PIN. But can I reset and use the drive without encryption?

**A.** HDD data all lost!

1. Connect HDD to PC directly. Initialize the HDD with GPT.
2. And again,
3. Initialize the HDD with MBR.

**Q.** I want to change the password.

**A.** You can’t change instantly your PIN. Therefore you must backup your data before change your PIN.

1. backup your data
2. remove encryption PIN
3. set encryption PIN.
Set Encryption

Information about the encryption settings
The encrypted disk requires a password whenever USB connecting
If you use encryption with new disk. at first set the password. and then initialize the HDD.

⚠️ If you set encryption, all data on the HDD will be deleted ！！！！！！！！

1. To activate the AES256 encryption, [MENU] button to open the main menu, select the fifth menu
   AES256 encryption is selected press [Enter] or [6] key

2. And choose [Set Encryption]. Confirm the warning message that all data to be deleted and select
   [1.YES]. The 4 to 16 digits When prompted to enter a password, enter twice.

3. [Please wait ...] Wait a few seconds, the following screen will be displayed in the message.
   LCD top right corner of the second. Please check the lock icon [🔒]. If you see a lock icon success.

💡 TIP # [1st Partition:XX]?
After encryption [first unsupported partition] is displayed. see [_disk initialization and setup]
to IODD basic setting
# Chapter 2. Remove Encryption

To activate the AES256 encryption, press the [MENU] button to open the main menu, select the fifth menu. AES256 encryption is selected press [Enter] or [6] key.

And choose [Remove Encryption]. Confirm the warning message that all data to be deleted and select [1.YES]. The existing password, enter twice.

[Please wait ...] Wait a few seconds, the following screen will be displayed in the message. LCD top right corner of the second. Please check the lock icon [ ] . The lock icon goes off success.

---

**Caution**

- **If you forget the password, there is no way to find it.** Half of the keys are in your memory. IODD encryption algorithm does not store the password in IODD body.

- **Did you set the encryption by mistake?** If the disk has not been written after encryption, the data of the disk can be restored. Select [Remove Encryption] menu will remove the encryption. **Reconnect the IODD to a PC.** This is likely to be the old data has been restored. But, the reverse is not possible. **Encrypted HDD (old data) -> Remove Encryption -> set encryption -> Old data recovery is impossible**

- **Changing password with maintaining the HDD data is not possible.** Backing up data (old data) and Remove Encryption Run -> a new password Set Encryption -> The data (old data) to be copied again.
Disk initialization and setup

If you initialize the disk, all data on the disk will be deleted.

1. To initialize a disk, run the Windows [disk management].
   Windows XP/7 Start Menu -> run (+R) -> 'Diskmgmt.msc' type -> 'ok' click
   Windows 8 or later Start Menu right-click ( ) -> Select [Disk Management] from the menu ( )

2. Check the HDD mounted in IODD in 'Disk Management' screen.
   Right-click ( ) in the left area are displayed as [Not initialized] and Select [Initialize Disk] menu.
   Select a MBR (Master Boot Record) . Proceed to the initialize disk.

3. If properly initialized, the display of [Not initialized] is changed to [Online], [unallocated] area to
   assign a partition, right-click ( ) to select [New Simple Volume].

4. Set the partition size and segmentation, depending on user needs.
   ISO files are saved in the first partition. For the first partition is set to a sufficient size.
   Finally, please note the following format entries in the file system settings.

   TIP # File System
   It Supports NTFS and FAT32(exFAT). IODD factory firmware is installed by NTFS.
   You must install the firmware that matches the IODD drive's first partition format type.

   N Firmware ▶ NTFS type
   F Firmware ▶ FAT32 or exFAT type

   If you fail to initialize disks, first check the mode icon and status of the LCD.
   If the first icon is [ ], it cannot be formatted. Check the link ( ), turn off the feature, and then try again.
   If the second icon is [ ], mode, IODD is recognized as a virtual CD-ROM. Unable to initialize the disk.
   Please change to [ Dual Mode ] or [ HDD Mode ]

   If the disk failed at initialization, then it may be due to HDD failure.
   Remove the HDD from IODD, and connect it directly to PC.
   In this case, if the initialization fails, then please contact HDD manufacturer.
Chapter 2. Download the latest firmware

1. Go to the Download Center page on the IODD website.
   Download Center: [http://IODD.kr/wordpress/download/](http://IODD.kr/wordpress/download/)

2. Click on the tab of the product, you will see the NTFS and FAT folders.
   Click the same folder as the first partition format type and see a list of files.

3. Please check the revision information. Click the firmware file to download.
   To set the location to save the file, right-click a file to select [Save Link As]

---

Firmware File Name Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Program name</th>
<th>Version number and Support Format type</th>
<th>File size</th>
</tr>
</thead>
<tbody>
<tr>
<td>IODD 2541</td>
<td>User_Fw_Writer_04(R069N_B03)_X86</td>
<td>69_B05 (2016. 3. 7)</td>
<td>633.7 KiB</td>
</tr>
<tr>
<td>IODD 2531</td>
<td>User_Fw_Writer_04(R069N_B05)_X86zi</td>
<td>69_B05 (2016. 3. 7)</td>
<td>633.7 KiB</td>
</tr>
</tbody>
</table>
### Installing Firmware

#### 1. Check the current firmware version first.
Menu to check the firmware version, refer to the picture below.

#### 2. The downloaded firmware file is a ZIP archive.
Unzip it and right-click on the executable file (* .exe), select [Run as administrator].

#### 3. The update program will run like the below picture. IODD and PC must be connected.
(The data in the HDD will not be affected)

- **When the updater recognizes IODD**
  - [Device is Detected.] Message is displayed.
  - If "Device is not matched" or "Device is not Detected" is displayed, 1. remove all USB devices other than IODD. 2. reboot the PC. 3. run the updater.
- **Click the **button**, the update is in progress.**
Chapter 2. How to reset the firmware

How to reset the firmware

If the updater ends, exit the program and reconnect the IODD.

For 2541 update process is not end, until LCD shows [Flash updating ...] and LCD back light blinks and IODD reboot.

4

When the starts, [Device is Detected] message will change to [Update Start]. Depending on the firmware update IODD and HDD status, it may take a few minutes. When complete, [Update is succeeded. After exit, replug the device] message is displayed.

Safe Removal
Shortcuts

■ How to reset the firmware

Does the firmware update fails? Disconnect all USB devices from the PC. Press the [Reset button] and hold, and connect the IODD, and hold until [IODD 2531 or IODD 2541] appears in LCD, and Update.

Firmware Reset button of IODD 2541 is blue (or yellow). You can find it if you remove the aluminum cover. Press the Reset button and hold, and connect the IODD, and hold the button for 1 second, and run the firmware updater.

Firmware Reset button of IODD 2531 is yellow (or silver). Press the Reset button and hold, and connect the IODD, and hold the button until USB detection (for about 5 seconds), and run the firmware updater.

If Firmware update has failed repeatedly, please refer to

TIP # After installing the firmware [1st partition: XX] is displayed?

If that message is displayed, there are 2 reasons.
1. HDD is initialized with GPT
2. firmware and 1st partition are not matched.

1) Initialize the HDD to MBR.
2) Please check the format the first partition (NTFs or FAT). Install the correct version of the firmware.
Virtual ODD function Introduction

IODD virtual ODD function

1. **Copy the ISO file to a folder _ISO**  
   [For more information, see the next section]

   - ISO
   - Windows 8
   - Adobe EXCEL
   - Adobe PS

   **you can get ISO images**
   1. ripping CD or DVD to ISO images.
   2. downloading ISO images from Internet.
   3. create ISO images from files and folders with an utility.

   **Unlimited size and number**
   IODD is recognized as DVD or Blu-ray according to the size of ISO image.

   **Compatibility**
   IODD has the same functions as USB DVD-ROM. If you can boot from a USB DVD-ROM, then you can boot from IODD Regardless of OS.

   **USB 3.0 Super Speed**
   Modern motherboards have USB 3.0 ports to boot from USB devices.

   **Saving previous state**
   You can save the CD loading state automatically or manually

IODD eliminate as followings

1. piles of burned CDs, DVDs, Blu-rays.
2. buying and abandoning blank medias.
3. time for buying, burnning and abandoning blank medias(or burned medias).
4. booting and loading time
Virtual ODD function FAQ

Q. IODD will not boot

A. follow the next steps

■ Confirm whether the ISO file is bootable.
■ If your PC is old or does not provide multi LUN, please select CD-MODE (or ODD-MODE).
■ In order to confirm whether the ISO file is bootable, please try to test it with the validated PC.
■ Although it is bootable ISO file, please confirm whether it is same result with USB DVD-ROM.
■ If it can boot in USB DVD-ROM and can not boot in IODD, please use USB Y-CABLE for adding external power.
■ If your laptop has own internal DVD-ROM and IODD does not boot, please disable internal DVD-ROM at BIOS settings. or remove it.

Q. Can I also ISO booting motherboards that support only UEFI?

A. Refer [Make a bootable USB drive with Rufus] in CHAPTER 3

Q. Trying to set up, [No _ISO folder] message appears.

A. Please make sure that the folder name exactly matches the _ISO. If match, please change the name of an existing folder, and create a new _ISO folder.

Q. When loading the ISO file, [Defrag] message on the LCD.

A. When a serious fragmentation of the ISO file is found, the message can be seen. Please defragment the disk or file.

Q. The PC motherboard does not support an external CD-ROM boot. Is there any way to boot?

A. Refer [Make a bootable USB drive with Rufus] in CHAPTER 3

Q. How do I get ISO file?

A. you can download ISO images from the Internet.

Q. When you boot “tiktok” (or similar) noise occurs in IODD. Very slow boot (or installation).

A. It may be due to a problem with the HDD. Please remove the HDD and IODD to connect directly with the PC. If the same noise, contact HDD manufacturer.
Virtual ODD function Setting

Please confirm the following

- Is IODD drive initialized to MBR (master boot record)? □ Yes □ No
- The first partition is Healthy (Primary Partition)? □ Yes □ No
- IODD firmware matches the first partition type? (N means NTFS, F means FAT32/exFAT) □ Yes □ No

If [No] is checked, then [1st partition xx] message appears. Please refer to [Disk initialization and setup] or [installing Firmware] section of the previous page.

1. If the HDD is initialized correctly, on the screen of IODD [No _ISO folder] message is displayed.

2. Open the first partition on the HDD, click the right mouse button (⌘) in the root directory. Creates a [Folder] named [\_ISO].

_TIP # _ISO Folder

_[\_ISO] folder is case insensitive. IODD finds this folder during startup. \_[\_ISO] folder can have files and sub folder tree._
Chapter 2. Virtual ODD function setting

1. Copy ISO files to the _ISO folder.  2. safely remove IODD.  3. reconnect IODD.

Supported file types are as follows:

- CD/DVD/Blu-ray Image file: *.ISO
- Virtual HDD file: *.VHD
- Virtual USB drive file: *.RMD
- Virtual Floppy file: *.IMA

For key functions, please refer to the [Key functions] in chapter 1.

**TIP # How to unload ISO file?**

For 2541, to press one of the arrow keys (2,4,6,8) will Unload Iso file.
For 2531, to up or down jog switch will Unload Iso file.

**Cautions**

- IODD allows max 32 files or subfolders in a folder. (under "_ISO" folder) If not, [too many files] error message appears.

  **Solution**: Create subfolder tree in _ISO folder, and Split a folder into subfolders with less than 32 files

- If IODD will not boot, then confirm the ISO file with USB DVD-ROM.

  Burn the ISO file to a blank media. and test if it works with USB DVD-ROM.
Changing the mode

- IODD provides three combinations of USB devices as follows,

<table>
<thead>
<tr>
<th>icon</th>
<th>mode name</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dual-Mode</td>
<td>a Virtual CD-ROM (ODD) and a physical HDD.</td>
</tr>
<tr>
<td></td>
<td>CD(ODD)-Mode</td>
<td>a Virtual CD-ROM (ODD). (the best compatibility for boot).</td>
</tr>
<tr>
<td></td>
<td>HDD-Mode</td>
<td>a physical HDD.</td>
</tr>
</tbody>
</table>

1. To enter menu mode, press [Menu], (2531, press Jog button for 3 Seconds). To select sub menu or item press [6] or [Enter]. (2531, press Jog button). Select menu item [Mode Select]

2. Select the mode to change, and then IODD will reboot with that mode. The mode icon will be changed to related icon.

TIP # Mode Change Startup key

IODD-2531 has this key. During startup, turn Jog switch as follows:

Jog Switch up/down & hold
- UP - CD - Mode
- Down - HDD Mode
Chapter 2. Write Protection Function

Write Protection Function

- IODD Write Protection enhances as followings
  1. logical and physical write protection / 2. safeguard against Virus
  3. forensic data / 4. less read write than normal mode when USB connection

1. Select menu item as follows.
   2541 - [USB control] / 2531 - [advanced]

   ![Menu Screen]

2. Check [Write Protect] checkbox. and IODD will reboot. you can confirm the related icon

   ![Confirmation Screen]

3. You can set write protection disabled by unchecking the checkbox. the related icon is [ ]

   ![Disabled Screen]

Cautions

- If write protection is enabled, you can not format, write, copy, and move to IODD.
- If IODD has a error in reading or writing, then connect it directly to your motherboard via sata or IDE, and test the HDD. if the HDD has an error, then please contact the HDD manufacturer.
USB Safe Removal / Reconnection

- without stopping spindle motor, frequent USB disconnection can cause HDD defects. The best way to disconnect USB is as follows:
  1. safely remove USB device in OS.
  2. if IODD is in power saving mode, disconnect the IODD.

**Commands in IODD (the second best method)**

select menu item as follows. 2541 - [USB control] / 2531 - [USB Connect]

**Commands in OS (the best method)**

- If you safely remove the USB device, then please wait until IODD is in power saving mode. If IODD does not enter power saving mode in 5 seconds, please do manual power saving command as follows.

**TIP # USB Reconnect / Removal Shortcuts**

1. Save loading status and safely remove
3. USB Refresh

Jog Switch down&hold
Save loading status and safe removal
# Mounting virtual drives

Mounting virtual drives is similar to mounting ISO. If you select VHD (or RMD) file, the file will be mounted as USB disk drive (or flash drive). The related icon is as follows.

1. Up to four VHD files can be mounted simultaneously. You can see the mounted VHD file number icons. IODD-2541 shows different icons depending on the number of mounted VHD files.

2. 

3. VHD is mounted as USB fixed drive. and you can see the related icon in file browser.

## Unmount

Select menu item as follows. 2541 – [USB control] / 2531 – [Advanced]

- If VHD is mounted, Mode changes to the CD-ROM mode.
- If VHD is mounted, the main mode is changed automatically to the [CD Mode].
- If you want the VHD to boot with [Dual Mode]. [See Next page]
Virtual HDD(VHD/RMD) Function Precautions

**VHD filename option**
According to VHD filename, IODD LUN mode is determined. Default is CD-MODE.

*Ex* IODD.VHD: CD-MODE / IODD.&D.VHD: DUAL-MODE, Write Protected / IODD.&DW.VHD: DUAL-MODE, Write Enable

*This warning is only in the case when using virtual drive as an operating system (or Win-To-Go)*
If you use Virtual drives with "&DW" option, then you must not do as follows:

1. You must not defrag the real drive (IODD main drive).
2. You must disable any automatic defrag service.
3. You must not move the RMD(VHD) file that is been using.

**Most important**
If you use virtual drives with "&DW" option and violated the above cautions, then the IODD will have fatal errors and the data will be corrupted.

**TIP # VHD/RMD Unmount Shortcuts**
- ISO/VHD/RMD Mount or Unmount
- All VHD/RMD Unmount
- Back/Up Key press & Hold All VHD(RMD) Unmount
Chapter 2. S.M.A.R.T. / IODD information

You can check the S.M.A.R.T. information of the HDD.
You can see the detail information of IODD.

How to enter

- select menu item as follows: 2541 / 2531 - [information]

Menu items Information

<table>
<thead>
<tr>
<th>2541</th>
<th>2531</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S.M.A.R.T</td>
<td>S.M.A.R.T</td>
<td>Check HDD Condition GOOD / BAD / Warning</td>
</tr>
<tr>
<td>HDD Model</td>
<td>HDD Model</td>
<td>Check HDD Model</td>
</tr>
<tr>
<td>HDD Serial</td>
<td>HDD Serial</td>
<td>Check HDD Serial</td>
</tr>
<tr>
<td>HDD Temp</td>
<td>HDD Temp</td>
<td>Check HDD Temperature</td>
</tr>
<tr>
<td>Firm Ver</td>
<td>Firmware ver</td>
<td>Check Device's Firmware version</td>
</tr>
<tr>
<td>USB Speed</td>
<td>USB Speed</td>
<td>Check USB connection speed</td>
</tr>
<tr>
<td>USB input V</td>
<td>USB input volt</td>
<td>Check USB current Voltage</td>
</tr>
<tr>
<td>USB Low v</td>
<td>N/A</td>
<td>Check USB lowest Voltage</td>
</tr>
</tbody>
</table>

Note of S.M.A.R.T. information

- All HDD or SSD do not support this function.
  This information are due to HDD or SSD, not to IODD.
Setting / Language

Chapter 2. Setting / Language

LCD Brightness setting

bold select the menu item as follows: 2541 / 2531 [Setting]

<table>
<thead>
<tr>
<th>Menu</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD Bright</td>
<td>adjusts LCD back-light brightness</td>
</tr>
<tr>
<td>Idle Bright</td>
<td>adjusts LCD back-light brightness in power saving mode</td>
</tr>
<tr>
<td>Standby time</td>
<td>adjusts the inactive time before power saving mode is active</td>
</tr>
<tr>
<td>Load Default</td>
<td>restores all settings to their default values</td>
</tr>
</tbody>
</table>

Sub menu item descriptions.

<table>
<thead>
<tr>
<th>Menu</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td>LCD Bright</td>
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</tr>
<tr>
<td>Load Default</td>
<td>restores all settings to their default values</td>
</tr>
</tbody>
</table>

Language

IODD-2541 supports Multi-languages. [language] menu item is last item on the top menu list.

Multi-languages are as follows: [English][Korean][Chinese][Japanese][Russian] If you select a language, the menu language will be changed immediately.

Instant Save

Function in [Advanced] menu.

for 2531 only. 2541 supports this functionality as a shortcut.

loading information will be saved instantly
If this option is checked and you select a ISO image, then current loading state is saved instantly.
If this option is unchecked and you want to save loading state, then you must save it manually.[Down Jog switch for 3 Seconds]

firmware version 1558 or later supports this.
TIP. Remove all non-present devices from Windows PC

Device Cleanup Tool is a free portable tool that lets you remove multiple or all old, non-present, unused, previous hardware devices from your Windows computer. Windows may disable persistantly devices that had an error at once in the past.

Device Cleanup Tool Download

Download link

http://www.uwe-sieber.de/files/devicecleanup.zip

Run Device Cleanup

uncompress it to a proper folder. run EXE file as administrator.

In the [Devices] menu and select [Select All].

If all devices are selected, [Devices] menu and select [Remove Selected].

After the longest wait 10 minutes, when the operation is complete,

reboot the PC twice.
Congratulations. Thank you for coming up here.

The next chapter is a guide for virtual hard drive function guide. CHAPTER 2 is enough to basic guide of IODD. Menu Tree / Error Messages / First Aid, please refer to the [last chapter].

For the latest information, please visit the official site and IODD Wiki:

🎶 Official website - http://www.IODD.kr
🎶 IODD Wiki - http://en.IODD.kr
This chapter will guide you through the advanced use. The overall knowledge of computing is required. Beginners please read and fully mastered basic functionality.
create a VHD file by VHD Tool

What is the VHD file
VHD (Virtual Hard Disk) is a Windows virtual hard disk drive image file. It is like a physical HDD. Selecting a VHD file means mounting a HDD drive. IODD 2531/2541 is Max 4 VHD files can be mounted.

1. Download VHD_Tool++ utility software.
   You can download from followings,
   - IODD Official Site download page
     🔄 http://IODD.kr/wordpress/support/download/
   - IODD Official FTP
     🔄 ftp://sps.IODD.co.kr/

2. Run VHD_Tool++
   At first, connect IODD to PC. and run this tool.

   This tool has many functions, but here is mentioned only [Make VHD] function. If you select the first [Create] tab at the top, you will see a screen like the left. First, please click on the icon □ to create a VHD file.

   Navigate to the location (folder) that a VHD file will be created on. Enter the name of the VHD file on the area marked in blue box. and click Open. The file name can be changed after creating.
   ※ You can create it only on the HDD in IODD.

⚠️ VHD file size settings
- VHD(fixed) is occupies the created size without the data. Determine the size carefully when you want to create.
- Variable VHD(VHDx) files are not supported.
3 size and options of VHD
Select the size and options of VHD. The picture below is sample.

How to find the largest size of VHD file to make.
- 'Free space' shows the total free space of HDD.
- 'Largest linear space' shows the max size of VHD to make.
- If you enter a smaller size than 'Largest linear space' on 'Size' input window, the VHD file can be made.

About 'Largest linear space'
'Free space' does not mean you can use all the free space. If 'Largest linear space' is lower than the target, please defrag the drive. The VHD file can be generated only in linear free space.

4 Change the file name(Option)
VHD(RMD) file determines the mode based on the file name.

VHD filename option
According to VHD filename, IODD LUN mode is determined. default is CD-MODE.
Ex) IODD.RMD : CD-MODE / IODD&D.RMD : DUAL-MODE, Write-Protection
IODD&DW.RMD : DUAL-MODE, Write-Enable

5 Mount
Select the file in IODD like selecting *.ISO file.

If mount is successful, 'Formatting is needed' message box will appear.
Format the drive as FAT32 or exFAT or NTFS. and the drive like the left picture will appear.
more information - refer to [VHD Mount/Unmount]

⚠️ if the format fails?
- There is a possibility that the VHD file is created incorrectly. Please delete the VHD file and re-created.
Make a bootable USB drive with Rufus

Using the virtual USB thumb drive image file (*.RMD), it can be bootable in the motherboards that can not be booted with USB DVD-ROM.

It can be especially useful for cases where:

- you need to create USB installation media from bootable ISOs (Windows, Linux, UEFI, etc.)
- you need to work on a system that doesn’t have an OS installed
- you need to flash a BIOS or other firmware from DOS
- you want to run a low-level utility

Prerequisites

To follow this guide, you will need:

- IODD-2531 or IODD-2541 with HDD or SSD. IODD 2541 - 69_B04, 79_B04 / IODD 2531 - 1555 Firmware or later
- an Bootable ISO file
- Windows XP or higher
- VHD_Tool++ (It’s free for IODD user)
- Rufus tool (free ware)

TIP # Change VHD file to RMD file

According the extension, VHD is recognized as external HDD. and RMD is external USB thumb drive.

what is Rufus?

Rufus is a utility that helps format and create bootable USB flash drives, such as USB keys/pendrives, memory sticks, etc.

Download the latest version

You can download from Rufus official site.

- Rufus Official Website
  [https://Rufus.akeo.ie/]

Setting BIOS

It depends on the motherboard manufacturer. It is the best way to refer to the manual or to contact the motherboard manufacturer.
Run Rufus
Connect IODD with mounted RMD, and Run Rufus.

The same picture on the left will appear.

※ Caution : You must select the drive of IODD virtual drive.
● This label will be the volume label name of the drive.
If all options are selected, click the button in blue rectangle.

Select an ISO file to make USB drive.
You can make a bootable device to install OS

Select and open ISO file.
Automatically the combobox in blue rectangle will be changed appropriately.
Free dos > ISO image
If all options are selected, press the button below.

bootable USB completion and verification
Check the virtual USB drive

All operations will be completed.
Check the file and folder structure and properly are created.

TIP # VHD/RMD Unmount Shortcut

ISO/VHD/RMD Mount or Unmount all VHD/RMD Unmount
Back/Up Key press&Hold all VHD(RMD)Unmount
Windows-To-Go Guide

What is Windows-To-Go?
Supports Win to go ~ Portable personal computer - After installing Windows 8 into IODD directly, you can carry it and boot and use freely with IODD in any PCs.

If you use IODD Win to go, you can operate roaming system that nobody can copy or peep.

This section will guide you.

1. Install in the Windows Control Panel

To Install through the Control Panel, the following two items must be prepared.

- Windows 8 install DVD or ISO file (Enterprise version or high)
- The installation destination that IODD2541 / IODD2531

1. To create a VHD file in the _ISO folder (create a VHD file by VHD Tool), Mount the created VHD file. And run the [Windows-To-Go] in Control Panel.

2. Select the mounted drive (VHD). And mount the [original Windows installation DVD or ISO file], and select the version you want to install.

3. Skip to [Bitlocker encryption] dialog. When you click [Create] to begin the installation. (This may take a long time depending on the media and PC specification)

**TIP # Win-to-go only the VHD file size**
Win-to-go Minimum recommended size is 32GB, But the the recommended size of 50GB or more for use.
Chapter 3. Windows-To-Go Guide

Install the Rufus program through

To install through the Rufus Program, the following two items must be prepared.

- Windows 8 install DVD or ISO file (Enterprise version or high)
- The installation destination that RMD file in IODD

1. Run Rufus
   Connect IODD with mounted VHD, and Run Rufus.

   ![Rufus interface with IODD VHD selected]

   The same picture on the left will appear.
   
   ※ Caution: You must select the drive of IODD virtual drive.
   - This label will be the volume label name of the drive.
   - If all options are selected, click the button in blue rectangle.

2. Select an Original Windows ISO file to make Win-To-Go drive.
   After selecting an ISO file, you see the screen below, check the [Windows To Go] option.

   ![Rufus interface with ISO file selected]

   Select and open ISO file.
   - Automatically the combobox in blue rectangle will be changed appropriately.
   - Free dos > ISO image
   - In the case of Windows 8 Enterprise Edition or higher only. This Windows-To-Go option is activated.
   - Win-To-Go options are selected, press the button below.

3. Win-To-go installl and verification
   Check the windows to go drive.

   ![Win-To-go installation progress]

   All this work has been completed.
   - Make sure the drive for Win-to-go is installed correctly.
CHAPTER 3 Finished

Congratulations. Thank you for coming up here. Please continue firmware updates for new features.

For the latest information, please visit the official site and IODD Wiki

🔗 Official website - http://www.IODD.kr
🔗 IODD Wiki - http://en.IODD.kr
The last chapter contains an Appendix, and more
## Error Messages

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check HDD</td>
<td>This error occurs when the Firmware and the First Partition of IODD is not matching. Please check the above [Virtual ODD function Setting] section.</td>
</tr>
<tr>
<td>Chkdsk (or gErr) : xxx</td>
<td>Do [First Aid]</td>
</tr>
<tr>
<td>1st Partition</td>
<td>Because IODD does not read the internal HDD. Please change the HDD or USB cable.</td>
</tr>
<tr>
<td>bad or N/S HDD</td>
<td>Because IODD does not read the internal HDD. Please change the HDD or USB cable.</td>
</tr>
<tr>
<td>Too Many Files</td>
<td>IODD can list max 32 files or sub folders in current folders. Please use sub folders to avoid many files in a folder</td>
</tr>
<tr>
<td>NO _ISO Folder</td>
<td>Make a folder named _ISO at root folder.</td>
</tr>
<tr>
<td>NO - DISC</td>
<td>Because there are no files or sub folders in _ISO folder.</td>
</tr>
<tr>
<td>Disc Locked</td>
<td>Because the OS or a application has locked the ODD drive at any reasons. Solution is to re-connect the IODD.</td>
</tr>
<tr>
<td>DEFRAG</td>
<td>ISO file can have max 24 fragment in physical sector address. VHD and RMD must have no fragment.</td>
</tr>
<tr>
<td>vDISK Limit</td>
<td>To solve this situation, please do Disk Defragmenter for Disk Defragmentation.</td>
</tr>
<tr>
<td>Already Hit</td>
<td>You may select the file that has been selected yet.</td>
</tr>
<tr>
<td>Not Use Dynamic</td>
<td>The VHD file selected is Dynamic VHD file. Fixed VHD is only supported.</td>
</tr>
<tr>
<td>Not Use Sparse</td>
<td>The sparse image file is not supported as Virtual Drive.</td>
</tr>
</tbody>
</table>

If the LCD message shows like the followings:

- Check HDD
- Chkdsk (or gErr) : xxx
- 1st Partition
- bad or N/S HDD
- Too Many Files
- NO _ISO Folder
- NO - DISC
- Disc Locked
- DEFRAG
- vDISK Limit
- Already Hit
- Not Use Dynamic
- Not Use Sparse
First Aid

If it has failure suddenly, try one of next steps until the error is clear

- (2531) Jog button press&hold, and connect IODD to PC.
- Try Safely Removal In OS.
- Check Disk for IODD (for Windows)
- Rename _ISO folder name to other name. Create new _ISO folder, and copy files to this folder. (not moving)
- Update with the latest firmware. [Download latest Firmware / installing Firmware]
- Backup the data of IODD, and Initialize All

If there is hardware problem

1. Reboot the PC
2. Please change USB cable
3. Connect IODD to the port of PC back panel.
4. Try it on another PC
5. Please change HDD.

CS and Technical support / Business

Technical support & Business
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