

# MINI PRO

## QuickGuide

※ For MINI PRO internal Drive is M.2 NGFF 2280mm

※ Encryption function must be [Administrator]-  
[User][2nd Password] thoroughly read the  
contents and use it.

Guide Firmware / Software Download

<http://dir.iodd.kr/>

### Supported features

| Products      | MINIPRO | XX3XX | XX1XX |
|---------------|---------|-------|-------|
| Virtual Drive | ●       | ●     |       |
| Encryption    | ●       |       | ●     |
| Admin Mode    | ●       |       | ●     |
| Write Protect | ●       | ●     | ●     |
| WinToGo       | ●       | ●     | ●*1   |
| Adm           | ●       |       | ●     |

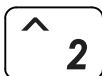
# SPECIFICATIONS

● The function is only  
for supported models

|  |  |
|--|--|
| ● Encryption   | AES256-XTS Max. 38*2(76) digits              |
| Display  | 128x160 TFT LCD                              |
| Input method   | Tact-Switch                                  |
| Support Drive Size                                       | M.2 NGFF 2280mm                              |
| Size   | 44.5 (width) × 111 (length) × 13 (height) mm |
| Weight   | 4g   |
| material   | Plastic, Nylon                               |
| Internal interface                                       | SATA2/SATA3 (sub-compatible)                 |
| External interface                                       | USB-C (USB 3.1 Gen 1)                        |
| Power  | DC +5V USB power                             |
| ● Supported file   | ISO/VHD/RMD/VMDK/IMA                         |
| Supported OS   | Win 7 and above, OSX 10 and above            |
| TRIM/UAS function  | Unsupported.                                 |
| ● AES256-XTS BLOB encryption (up to 78 digits)           |  |
| ● Bootable virtual ODD (CD/DVD/Other)                    |  |
| ● Bootable virtual HDD and USB drive                     |  |
| ● Administrator Mode / Text Viewer (ASCII/USC-2(UTF-16)) |  |
| Windows-To-Go / Write Protection/ Remove safety          |  |
| Multilingual / Built-in Help Key / Hotkey /OTG           |  |

# Keys

## File/Menu Browsing



2



8

File/List  
UP Down



Enter to Menu(or Exit)



6



4

Select a  
File/Menu/\*.txt File



Go to Upper  
Folder / Menu

## Function Keys



3

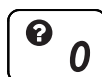
Disk Status

VBUS min.voltage/drive temp/health info



7

Unmount the  
most recently  
mounted virtual drive



0

Tooltip

A description of the current menu  
/ error message



9

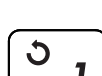
Instantly save  
Instantly saves the  
current virtual drive state.



5

View file information

Display full name, size,  
and fragmentation information of the file



1

Refresh  
File list

work only in the text viewer



3

Page Up

Txt Viewer PGUP

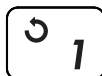


9

Page Down

Txt Viewer PGDN

## Long key ( push for 3 seconds )



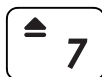
1

Reconnect to PC



3

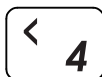
Reconnect to PC with  
write-protected state is toggled.



7

Unmount all

Virtual drives(VHD/ISO)



4

Partition selection

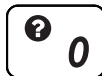
\*Only works when unmount  
all virtual drives



9

Safe Removal.

(ISO loading state is save)

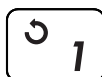


0

Reconnected with

temporarily Write Protection disabled

## Start-Up keys (during startup)



1

Reset to

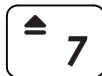
factory settings



3

Starts with

Write Protection



7

Connected with

Unmount all virtual drives(ISO, VHD)



Enter to menu

without connecting to PC



0

Displays startup key info.  
without connecting to PC

# UI Info

















## Status Icons

### Mount information Area

### File list Area






## Status Icons

### Status of the device

| Icon  | Description  |
|---|--|
|  /    | physical drive write-protect enable/disable status |
|  (Red)   | Write-protect all (including virtual drives) disks |
|  /    | Mount / unmount status of the ISO file             |
|  /  /  | Mode status (CD / DUAL / HDD)                      |
|  /    | Power status (timer / sleep mode)                  |
|    | AES256 encryption On                               |
|  /  /  | USB connection speed (3.0 / 2.0 / 1.1)             |

## Mount Information Area

### Inform active ISO / VHD / RMD and settings.

|   |  |
|---|--|
|  Filename.iso  | Inform mounted file name (ISO/VHD/RMD)                 |
|  /  | Inform status of the virtual drive (removable / fixed) |
|  /  | Inform write protection on / off status (VHD/RMD)      |

## File List Area















- List folders and available files in the selected directory
- To use another partition,  
Unmount all virtual drives and press button 4 for 3 seconds  
to enter the [partition selection] .

# ■ Virtual Drive Function

- One virtual ODD / three VHDs (or RMDs) can be mounted at the same time.
- At the first time, automatically finds mountable files on the largest partition (GPT / MBR, NTFS / exFAT / FAT32)  
You can select default partition (button 4 in the file list area)
- The advanced mode manager handles the settings of individual virtual drives.

## Mode Setting

Press the  button and select the [Mode setting] Menu.

| Mode setting  |   |
|---|---|
| 5 -  /    | 6 -  /  |
| ▶   HDD   |   |
|   ODD   |   |
|   VHD |   |
|   VHD |   |
| ---Disabled---  |   |
|   VHD |   |
| 3 - ▲   |   |
| 9 - ▼   |   |

### 1. Configure options for the selected


set the options of the selected (▶) drive.

Use the 5 button to enable / disable the write protection function.

Use the 6 button to toggle removable disk / fixed disk

### 2. Configure the number of drives and drive's order.

You can change the order with the 3/9 buttons. The inactive bar can be moved. Drives that are below the --Disabled-- item are inactivated.

To exit menu mode, press the  button and the settings is saved.

- ※ If any options change in the Mode Manager, the device reboots and all currently mounted virtual drives are unmounted (ISO/VHD/RMD)
- ※ The drive order in menu may be same the Virtual Drives Information Area of IODD.

## TXT Viewer


- TXT format file can be opened with IODD's built-in viewer.
- If used with encryption, safely view password-related text data.

In the TXT file item on the file list screen, press the  or  key.



## Keep Password 2 min

- Users don't have to re-enter your password only once within 2 minutes after entering the password.
- It reduces the number of times to enter a password for installation work that requires a reboot.
- If two minutes have passed since you entered the password, or when you reboot for the second time within 2 minutes, you must re-enter the password.


### Feature enable/disable

1. Press the Menu  button to enter the menu screen and select [USB Control]
2. Check or uncheck the [☐Keep P.W 2min] item

## Write Protect

- Use the disk write-protect feature to protect your disk.  
In addition to menu access, function buttons (press  button for 3 seconds) or it can be activated by the start button ( button when connected).

### Feature enable/disable

1. Press the Menu  button to enter the menu screen and select [USB Control]
2. Check or uncheck the [☐Write Protect] item

# ■ Encryption & Admin

- New IODD Series uses AES256-XTS encryption.
- There is no need to install a driver for encryption.
- Available for all operating systems.
- The length of the password is 4 to 38 digits(2nd Password is Same)
- Security is further strengthened with random keypad.

## Enhanced Encryption

New IODD has an AES256bit-XTS up to 38-digit double encryption and an administrator Mode so that multiple users (administrator\*1/user\*4) can use one device together.

## 2nd Password(2nd P.W)

2nd password is required when setting a password on the drive and when installing a drive with a password already set to another IODD ST/LK. Up to 38 digits can be entered.

If lost, the password cannot be retrieved or recovered in any way

This password is used only by administrator.

## Admin mode

If there are multiple users using the same ST/LK, you can use the administrator mode to set individual users' passwords and drive permissions.

Administrators can reset a user's password at any time.

Only administrators can unencrypt the entire device.

## Users

Up to 4 users, excluding administrators, are set as users,

Users can use internal data within the authority specified by the administrator.

When permission is granted, the user's password can be changed.

## IODD Admin Manager(Windows Application)

It is an application that allows the administrator function to be used on a PC.

It has the same functions as the main body of IODD,

and the password configuration file management function is added to make

it easier to manage multiple users and passwords.


# ■ AES256 Encryption(Admin)

## ⚠ Notes on Encryption

- ※ When setting/deleting the administrator password, all data on the IODD drive is initialized.
- ※ Even if you forgot the administrator password, you can initialize the installed drive and use it. Initialize the disk initialization method as MBR->GPT->MBR. Please note that all existing data will be deleted.
- ※ **If the 2nd password is lost, the encrypted drive cannot be used for another IODD. It is impossible to access, so be careful not to lose it.**


- If the administrator's password is changed, all user accounts will be deleted.
- When an administrator sets or deletes an administrator's password, all data on the disk is initialized and all user accounts are deleted.

## Admin | Set admin Password


1. Press the Menu button  to select the [Encryption] [Admin] menu.
  - 1.1 When setting the first password, select the [Set 2nd P.W.] menu and set the 2nd P.W
2. Select the [SetEncryption] menu. Check the notification that all data inside will be deleted.
3. Enter the administrator password twice (4 - 38 digits)
  - 3.1 The administrator sets the first digit of the password to zero.
4. Wait for a while to finish setting up admin encryption.
5. When IODD is reconnected, the 0+administrator password set in step 3 is requested.

user identification number(Admin 0/Users 1-4)  
ex) 0 55447788  
Password (Max 37 Digits)

## Admin | Remove Admin Password

1. Press the Menu button  to select the [Encryption] [Admin] menu.
2. Select the [Remove Encryption ] menu. Check the notification that all data inside will be deleted.
3. Enter the administrator password once (4 - 38 digits)
4. Wait for a while to finish Remove admin encryption.

## Admin | Change Admin Password


1. Press the Menu button  to select the [Encryption] [Admin] menu.
2. Select the [Chg Password] menu. Check the notification [All user passwords Will be deleted]  
If the Admin password is changed, all user passwords are deleted, and a new user password must be set in Admin mode.
3. Enter the Old administrator password once (4 - 38 digits)
4. Enter the New administrator password Twice (4 - 38digits)



# Admin's User Management

- Administrators can set individual passwords for up to 4 users and manage disk permissions

## admin | User management

1. Press the Menu  button to select the **[Encryption] - [User]** menu.
2. Enter 0+admin password.
3. Select the users to manage.

| User-1  |
|---|
| <div><div>▶ Set Password &gt;</div><div>Del Password</div><div><input type="checkbox"/> Read Only</div><div><input type="checkbox"/> User Change</div><div><input type="checkbox"/> User Delete</div></div> |

### 1. Set or remove a user password.

A user password is a user identification (account) number (1-4) fixed at the beginning of the password.

### 2. Set the user's permission.

#### Read-only

The user cannot delete or change data on the device's internal drive.

#### User Change

Users can change their user password arbitrarily. Administrator can remove all user passwords.


#### User Delete

That user can delete their own user password. The user account is also deleted.

4. When you have finished setting, press the **[ < 4 ]** button to return to the previous menu.
5. Select **[Save Users]**.
- 5.1 If you exit the menu without selecting the **[Save Users]** menu, Changed settings are not applied.

# Encryption for User

- The user's authority is set by the administrator.
- The user's initial password is set by the administrator.
- Even if the user changes or deletes the password, the data inside the drive is maintained.
- Administrator can change/delete passwords of all users.

1. Press the Menu  button to select the **[Encryption]** menu.  
Only menus that the user can set are displayed.

## Allow password change/delete

| Encryption                           |   |
|--------------------------------------|---|
| ► Change Password<br>Delete Password | > Users can change or remove passwords for their accounts.<br>Removing the password also deletes the account. |

## Allow Password Change

| Encryption        |   |
|-------------------|---|
| ► Change Password | > Users can only change their password. |

## Allow Password Delete

| Encryption        |   |
|-------------------|---|
| ► Delete Password | Users can remove passwords<br>Removing the password also deletes the account. |

## Change/Delete Password Not Allowed

Users will not be able to activate the [encryption] menu.

# ■ IODD Admin Manager

- Administrator program for Admins.
- This is a Windows-only application.
- Faster access to Admin functions.
- A tooltip is displayed when you mouse over an item.

The screenshot shows the IODD Admin Manager R-0.9.0.1 application window. The title bar includes the application name and standard Windows window controls. The menu bar contains 'File', 'Settings', and 'Help'. The 'Main Menu Area' includes tabs for 'Admin' and 'Passwords Configuration'. The 'Admin' tab is active, showing fields for 'Device' (a dropdown menu), 'Serial' (a text input), and a 'Show Passwords' checkbox. Below these are fields for '2nd Password' and 'Admin Password' (with a star icon), each with a 'Set' button. The 'Admin panel Area' contains three buttons: 'Scan', 'Unlock', and 'Lock'. The 'Set Passwords' section has tabs for 'Set Passwords', 'Change', and 'Remove'. The 'Set Passwords' tab is active, showing a 'Set Passwords' button, a 'Not Reconnect' checkbox, and a 'Clear' button. Below this is a table with columns for 'User', 'Read Only', 'Change', and 'Delete'. The table lists four users: User1, User2, User3, and User4, each with a corresponding 'Read Only' checkbox and 'Change'/'Delete' buttons. The 'User management area' is labeled below the table. The 'Current status area' shows the 'Current Status' as 'No iodd' and the 'User' as '0'. It also includes checkboxes for 'Admin', '2nd PW', and 'User1' through 'User4', each with 'R', 'C', and 'D' sub-options. The 'Log Area' at the bottom right contains a 'Clear' button.

## Application Download

IODD Latestial Download Center

<http://dir.iodd.kr>

latest firmware, IODD Admin manager, and VHD Tools.

## Main Menu Area

select the language in the [Settings] menu

# Admin Panel Area

The screenshot shows the 'Admin' tab selected in the 'Passwords Configuration' section. It includes a 'Device' dropdown menu with 'Select Device' as the current selection, a 'Serial' input field, and a 'Show Passwords' checkbox. There are two password input fields: '2nd Password' and 'Admin Password'. The 'Admin Password' field has a small '0' in a box before the main input. A 'Set' button is next to the '2nd Password' field. On the right side, there are three buttons: 'Scan', 'Unlock', and 'Lock'.

- The administrator can lock or unlock the IODD connected to the PC.
- All functions require an administrator password.
- Administrator can save or load password configuration file.

## Item Description

### 1. [Admin password] input Field

All functions of Admin manager require an administrator password. If the administrator password is not known, no changes to the program are saved to the IODD.

### 2. [Secondary password(2nd Password)] input Field

It is used when setting a password for the first time in Admin manager or when an encrypted disk is installed in another IODD. Be careful not to lose the secondary password.

#### 2.1. Secondary password [Set] button

The administrator can set a secondary password on the machine (up to 38 digits).

### 3. [Unlock] button

Unlocks the password lock of the connected IODD.

### 4. [Lock] button

Password lock the connected IODD.

### 5. [Password configuration] tab

Admin can save/manage the current user settings (passwords/permissions) as a password configuration file.

A master password is required for save and open

The master password can be set differently for each password configuration file. Apart from the administrator password, it is only used to save/open password configuration files.

# User management area

|                                |                        | Read Only                | Change                   | Delete                   |
|--------------------------------|------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> User1 | 1 <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> User2 | 2 <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> User3 | 3 <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> User4 | 4 <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Administrators can set, change, or delete passwords and permissions for individual users.
  1. Check the user to be used among users 1-4 [1], and check the password [2] and authority [3].
    - 1.1. Click the [Set Password] button to apply.
    - 1.2. If [Do not reconnect] is checked, it will be applied immediately without reconnection.
    - 1.3. The [Empty] button initializes all user input items in the area.
  2. Users will have their passwords begin with their user number and begin with 1-4.
    - 2.1. The user password can be set up to 38 digits (the first digit of the user identification number + 37 digits).
  3. The administrator password is required to change or remove a user's password in Admin manager.
    - 3.1. Even if a user who has [Change Password] is changes the password, the administrator can change the user's password and privileges.

## Current Status Area

Current Status

Status

User:

|                                |  |
|--------------------------------|--|
| <input type="checkbox"/> Admin | <input type="checkbox"/> 2nd PW  |
| <input type="checkbox"/> User1 | <input type="checkbox"/> R <input type="checkbox"/> C <input type="checkbox"/> D |
| <input type="checkbox"/> User2 | <input type="checkbox"/> R <input type="checkbox"/> C <input type="checkbox"/> D |
| <input type="checkbox"/> User3 | <input type="checkbox"/> R <input type="checkbox"/> C <input type="checkbox"/> D |
| <input type="checkbox"/> User4 | <input type="checkbox"/> R <input type="checkbox"/> C <input type="checkbox"/> D |

- The administrator can check the encryption lock status and user status of the connected IODD.
- The administrator can check the user's permission with the status of the checkbox.

## Log area

Clear

- Display the progress status log.  
clear the contents with the [Clear] button.

## Main Menu Area

- Close the program/ Change  
The language using the [Settings]-[Preferences] menu  
Supported languages :  
Korean/English/German/French/Chinese/Japanese/Russian

# Error Messages

## Check HDD

- There is an error in the drive. Please Do [Troubleshooting]

## No appropriate partition

- There is no appropriate partition.

## Drive Error

- Please contact customer service (crmiodd@gmail.com)

## Too Many Files

- The maximum number of files in one folder has been exceeded.
- ioddST allows max 32 files or sub folders in a folder.
- Split the folder into subfolders.

..

- There are no subfolders or supported files in the current folder.

## Disc Locked

- The disk is held by some programs. Please unlock the disk.
- If you want to unlock manually, reconnect the USB cable.

## DEFRAG

- Fragmentation of ISO file is allowed up to 24 pieces.  
No for VHD.
- please do Disk Defragmenter for Disk Defragmentation.

## Not Use Dynamic

- Dynamic VHD is not supported. fixed VHD is only supported.

## Not Use Sparse

- Sparse files are not supported.

## How to improve when USB recognition fail

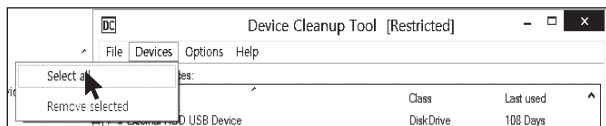
- When USB recognition repeatedly fails in the operating OS/PC  
You can try the [Device Cleanup] utility.
- Although not valid in all situations, PCs that use many USB  
devices can expect better recognition rates and speeds by  
deleting USB usage information stored in the registry.

## Device Cleanup download

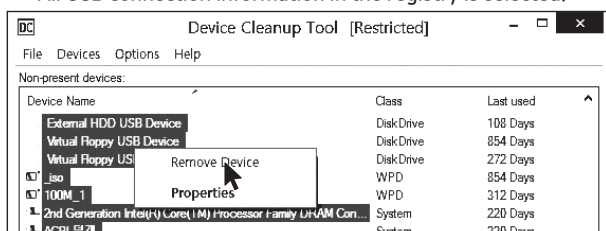
You can download it from the following http address.[Free ware]  
[https://www.uwe-sieber.de/misc\\_tools\\_e.html](https://www.uwe-sieber.de/misc_tools_e.html)

## Guide

Run the program as adSTstrator



Select the [Select all] menu from the [Devices] menu.  
All USB connection information in the registry is selected.



[mouse right click] any of the selected items.  
Select [Remove Device] to delete the registry information.  
After the operation is finished, reboot the PC.

# Troubleshooting

- Follow these steps until the error is clear.

1. press [7] and hold. and then connect to PC
2. press [1] and hold. and then connect to PC
3. Check Disk. ( for Windows)
4. pdate with the latest firmware
5. Reboot the PC
6. Change USB cable, and connect it to the back panel of PC
7. Connect to another pc
8. Connect to PC with pressing [9] and enter for 7 seconds.  
wait for 2-3 minutes.

# Status Messages

|                    |   |
|--------------------|---|
| Please Wait ...    | please wait.  |
| Disconnect ...     | please disconnect.                                  |
| Saving data ...    | please wait for saving data.                        |
| Updating Flash ... | please wait for updating                            |
| Input Limit...     | Password error count exceeded.<br>please reconnect. |
| Reconnect USB      | please reconnect.                                   |
| Not Match...       | Password is not matched.                            |
| NO DEVICE !!!      | HDD is not detected.                                |
| HDD ERROR !!!      | HDD Read Error.<br>or Too many bad sectors.         |
| HDD WARNING ???    | HDD have some bad Sectors.                          |

## Required | Cancel disk defragmentation

- Due to the characteristics of SSD/HDD drives,  
it is recommended to turn off defragmentation.
- You must cancel the defragmentation reservation while  
using the VHD.

## Windows 8 / 10

1. In Windows file explorer, right click on iodd ST  
Select [Properties] and select the [Tools] tab.
2. Select [Optimize] in [Drive Optimization and Defragmentation].
3. Select the ST and check the [Scheduled Optimization] item.  
If so, click [Change Settings] and select  
[Run Schedule (Recommended)]. Uncheck the item.

## Windows 7

1. Run the [Defrag] at Windows control panels
2. In the Disk Defragmenter window that opens,  
select the iodd ST to see the scheduling items.
3. If [Scheduled execution] is checked, clear it.

## If you use multiple partitions

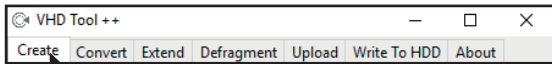
1. When an iodd ST is split into multiple partitions,  
it can be recognized as multiple drives in Explorer or  
the AdSTration Tool.
2. Cancel the disk defragmentation schedule for each  
and every drive.

## VHD Guide

- The IODD ST can use VHD files to use the Virtual Drive (HDD) and Virtual USB Memory Stick (RMD)
- Download the [VHD Tool]  
[ftp://iodd.kr/open/vhd\\_tools/](ftp://iodd.kr/open/vhd_tools/)

### VHD file create

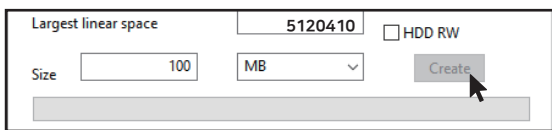
- Select the [Create] tab of the VHD Tool.



- Specify the location and file name of the ST in [File name].





- Enter the size of the VHD file to be created in [Size].  
!!! Must be smaller than or equal to the size of [Biggest linear Space].



- Click the [Create] to create the VHD file in the selected path.

### VHD file mount

- Press the   key to mount the VHD file.  
The created VHD file is recognized as 'uninitialized drive'

## VHD file usage and precautions

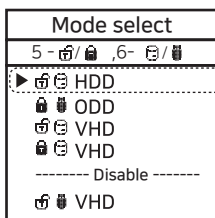
- VHD files can use various settings.
- You can change the properties of the VHD file at any time with the [Mode Manager] menu.



Never delete a VHD file that is in use (mounted) or change its file location, as this may cause a fatal error in the SSD. and Unschedule the disk defragmentation of IODD ST

### Fixed / removable change

Press the  button and select the [MODE Select] item.



Button 6 on the selected device (▶).

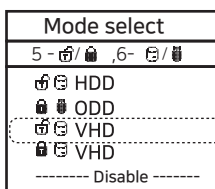
The device can be changed to removable or fixed.

**Removable:** Recognized as removable disk by the host



**Fixed:** Recognized as external HDD

 Fixed  Removable

### Write Protection On/Off



In the selected device (▶), use button 5 to set the device to write protection On/Off  
This option can be checked by the lock status.

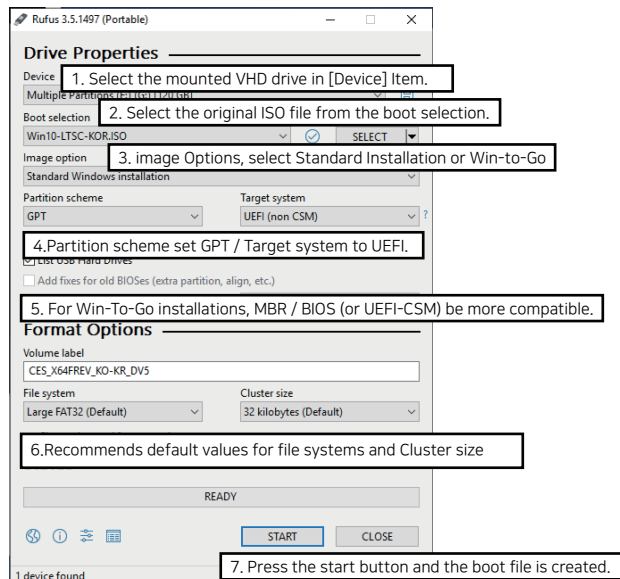
 On  OFF

## Bootable VHD Creat

- The RUFUS \* utility can be used to create UEFI bootable VHD files or Windows-to-go disks.
- You can boot Only support UEFI system
- The VHD file must be set as the [removable] disk

### RUFUS Download and Run

- Download Site(Official)  
<https://rufus.ie/>
- After installation, run as administrator



## Bootcamp for MAC OSX

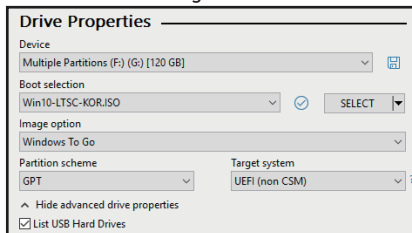
- The WTG and encryption features of the IODD ST make it possible to boot securely even on MACs.

### Preparations

- External USB or VHD file for boot camp driver  
-Download the driver from the boot camp control panel.
- VHD file for boot camp installation (fixed recommended)

### RUFUS Setting

- The default settings are the same as for UEFI boot.



Select [USB Hard Drive List] in [Advanced Drive Properties].

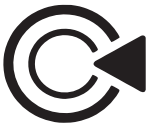
Select the target VHD drive (fixed) to install on the device.

Set the partition type to [GPT] and the target system to [UEFI].

### After work

- With your Mac turned off, connect the IODD ST and press the power button while holding down the [option] key to select a boot disk. **Choose the yellow UEFI disk**  
[Press and hold the Control key when first installing]
- Install the bootcamp support driver.





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## **Online-Gulde(Wiki)**

<http://en.iodd.kr>

## **Amazon Offical Brand Page**

[Amazon.com/iodd](https://www.amazon.com/iodd)