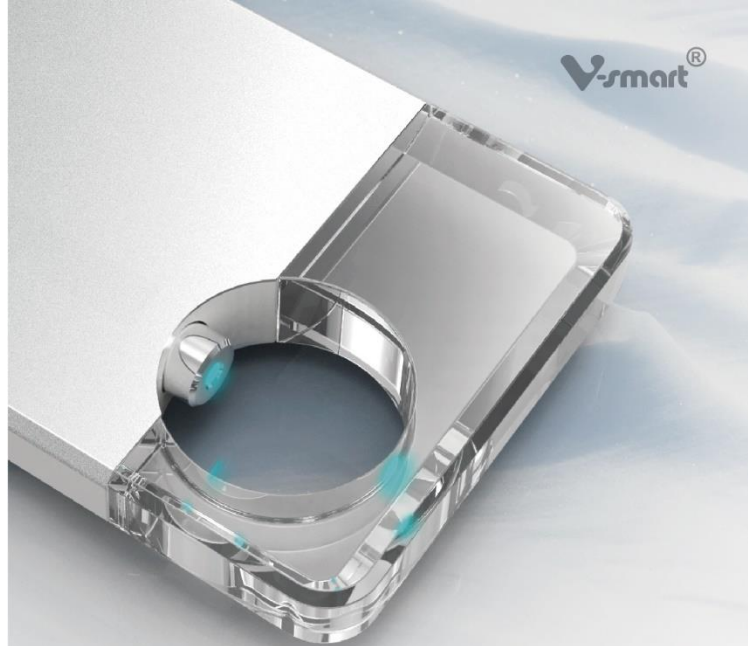




5G WI - FI Flash Disk

CRYSTAL

USER MANUAL

Thanks for your purchase of V-smart 5G Wi-Fi Flash Disk (Crystal)

- Please read the User Manual before using the product.
- Please keep the User Manual handy for reference.

■ Download the app — CrystalDisk — before using

- For Android and iOS users, search for CrystalDisk on Google Play or Apple's App Store.
- The CrystalDisk app is ready for use after download and installation are completed.



■ Setting Up Crystal Connection



- To use Crystal with a smartphone, tablet, iPod touch, or similar device, connect by Wi-Fi.
- To use Crystal with a desktop computer (PC) or laptop computer as a regular flash drive, connect via cable.
(connection with CrystalDisk app will be temporarily unavailable)
- Turn on Crystal and connect to smartphone or similar device via Wi-Fi using a hotspot. Then you can tap the CrystalDisk app to start use.
- Using the iPhone, for example:
Settings – connect to Wi-Fi – select V-smartdisk_*****



- Access hotspot by entering SSID – then entering password
2.4G mode has a green light indicator. The SSID is V-smartdisk_*****
(***** is the placeholder for the last 6 digits of MAC address)
5G mode has a blue light indicator. The SSID is V-smartdisk_*****5G
(***** is the placeholder for the last 6 digits of MAC address)
- Entering password is “v12345678”
- When connection is successful, turn on Crystaldisk, and you can start viewing the contents of the device.
- If you forget the password, press and hold the button for 30 seconds to return to factory setting. This does not delete stored data.

Contents

01 Start Operation

• Crystal Overview	P1
• Main Interface	P2
• Language Selection	P3
• Copying Individual Items	P4
• Copying Documents	P5
• Copying Photos	P5
• Copying Musics	P6
• Copying Videos	P7
• Setting Up Crystal Wi - Fi Connection	P7
• OTA Firmware Update	p8
• Charging	p8

02 NOTES P9

03 Q & A P11

01 Start Operation

■ Crystal Overview



Power and Wi-Fi Indicator

- White light indicator is for power on-off.
- Blue light indicator is for Wi-Fi 5G.
- Green light indicator is for Wi-Fi 2G.
- Wi-Fi indicator shows a steady light when Wi-Fi is connected.
- Indicator flashes during Wi-Fi data transfer.
- To turn off, press and hold button for 2-3 seconds.
- To turn on, press and hold button for 2-3 seconds.
- Click button twice in quick succession to switch from 2.4G to 5G.
- Press and hold button for 30 seconds to return Crystal to factory settings. This does not delete stored data.
- White light indicator is off when external power source is removed or charging is completed.
- White light indicator has slow flashing while charging.
- White light indicator has fast flashing as an alert that the battery has only a 10% charge left.
- When Crystal does not connect with an existing Wi-Fi access point (AP) and no other devices connect with it for 15 minutes, Crystal will auto power off to save power.

Charging Indicator

- Flashing while charging. When complete, the indicator light stays on.
- Fast flashing of indicator light warns of low battery, so battery should be charged.

Micro-USB Cable

- Micro-USB charging / data transfer port is 5V / 1A.
- A USB charger can be used for charging.
- You can transfer data or charge the battery when connected with a PC or laptop.

■ Main Interface

You can select the items to copy. For example, if you select photos, you can view your photos, then copy them to Crystal.



- 1 To transfer music, see page6
- 2 To transfer videos, see page7
- 3 To transfer documents, see page5
- 4 To transfer photos, see page5
- 5 Select from 18 languages on HOME PAGE (upper right)

Settings

To change hotspot name or pass word. see page 7

Backup

To back up Contacts / Photos / Music / Documents / Videos, see page 4.

File Explorer

You can check the Internal and External storage status.
(Internal refers to your smartphone; External refers to Crystal.)

System

You can check Storage / Connection Status, App and FW Version, and Battery Power percentage.

Language Selection



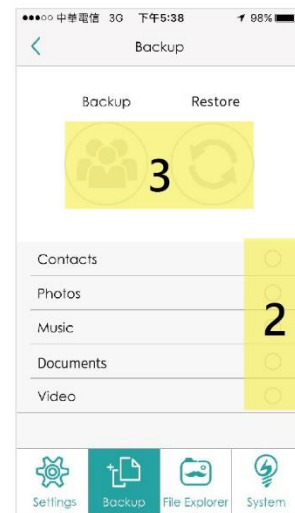
- 1 Tap on flag to switch language (Home Page upper right).



- 2 Scroll up and down the list to select preferred language.
- 3 Then tap on OK or Cancel.

Backing Up Individual Items

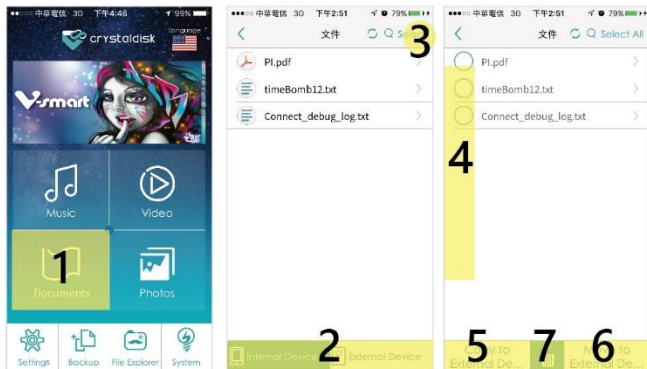
With this function, you can select items to copy to Crystal, and a file will automatically be created.



- 1 Tap on Backup on the bottom left.
 - 2 Select items which you want to back up from smartphone to Crystal or recover from Crystal to Smartphone.
 - 1.Contacts
 - 2.Photos
 - 3.Music
 - 4.Documents
 - 5.Videos
 - 3 Tap on Backup or Restore, and data will be copied from smartphone to Crystal or restored from Crystal to smartphone. Items with different dates will be stored in different files.
- ★ Reminder
- Home Page has four main categories: Music/Videos/Documents/Photos. The user can select one or more individual items to copy.
 - To use the Backup function to copy ALL data of the selected type, see Backing Up Documents/Photos/Music/Videos below.

■ Copying Documents

How to copy all documents on your phone to Crystal, or vice versa



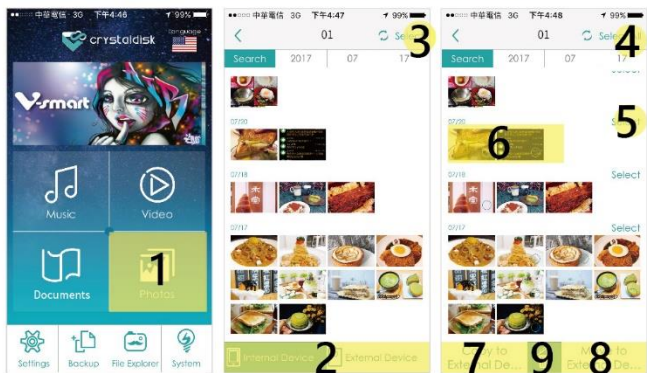
- 1 Tap on "Documents"
- 2 Tap on "Internal Device" or "External Device" on the bottom
- 3 Tap on "select"
- 4 Select documents
- 5 Tap on "Copy to External Device"
- 6 or on "Move to External Device"

The Copy function will keep all your data on your smartphone (internal device) while making a copy on Crystal (external device).The Move function will move all your data from your smartphone (internal device) to Crystal. The data will no longer be on your smartphone.

- 7 or Tap on "Delete" if you wish to delete

■ Copying Photos

How to copy all photos on your phone to Crystal, or vice versa



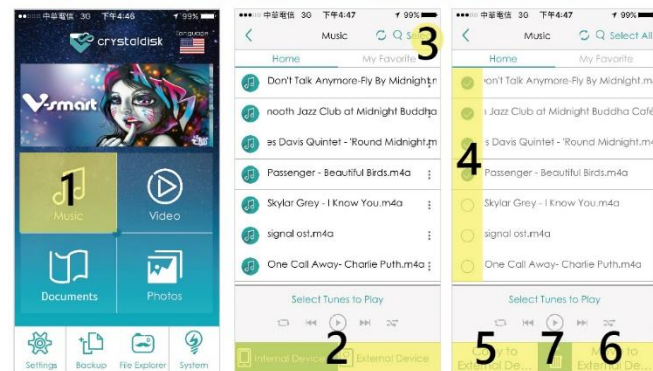
- 1 Tap on "Photos"
- 2 Tap on "Internal Device" or "External Device" on the bottom
- 3 Tap on "Select" in upper right
- 4 Tap on "Select" photos
- 5 or Tap on "Select all" in upper right
- 6 or select photos
- 7 Tap on "Copy to External Device"
- 8 or Tap on "Move to External Device"

The Copy function will keep all your data on your smartphone (internal device) while making a copy on Crystal (external device).The Move function will move all your data from your smartphone (internal device) to Crystal (external device). The data will no longer be on your smartphone.

- 9 or Tap on "Delete" if you wish to delete

■ Copying Musics

How to copy all music on your smartphone to Crystal, or vice versa



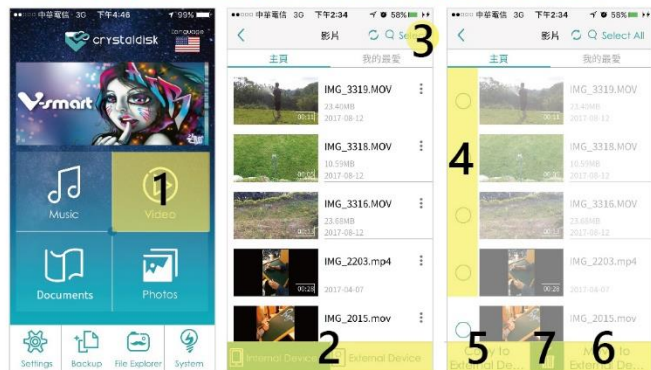
- 1 Tap on "Music"
- 2 Tap on "Internal Device" or "External Device" on the bottom
- 3 Tap on "Select"
- 4 Select music
- 5 Tap on "Copy to External Device"
- 6 or on "Move to External Device"

The Copy function will keep all your data on your smartphone (internal device) while making a copy on Crystal (external device).The Move function will move all your data from your smartphone (internal device) to Crystal (external device). The data will no longer be on your smartphone.

- 7 or Tap on "Delete" if you wish to delete

■ Copying Videos

How to copy all videos on your smartphone to Crystal, or vice versa

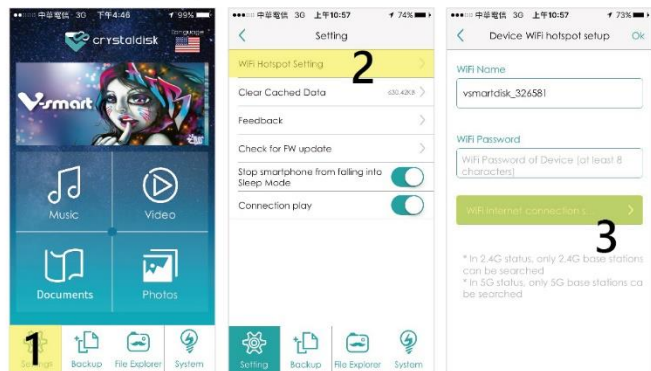


- 1 Tap on "Videos"
- 2 Tap on "Internal Device" or "External Device" on the bottom
- 3 Tap on "Select"
- 4 Select videos
- 5 Tap on "Copy to External Device"
- 6 or on "Move to External Device"

The Copy function will keep all your data on your smartphone (internal device) while making a copy on Crystal (external device). The Move function will move all your data from your smartphone (internal device) to Crystal (external device). The data will no longer be on your smartphone.

- 7 or Tap on "Delete" if you wish to delete

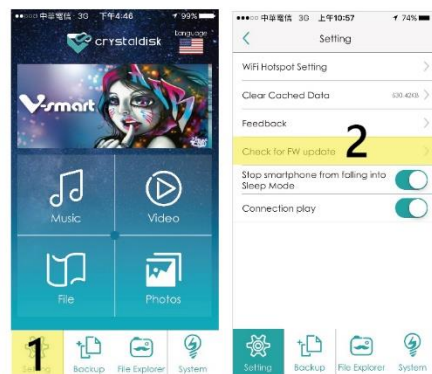
■ Setting Up Crystal Wi - Fi Connection



- 1 Tap on "Settings"
- 2 Tap on "Wi-Fi Hotspot Setting"
- 3 Tap on "Wi-Fi internet connection" and Select

■ OTA Firmware Update

Caution: Ensure that battery is fully charged or connected to charger.
(In the event of power failure during update, Crystal may be damaged.)



- 1 Tap on "Settings"
- 2 Tap on "Check for FW updates"
- 3 Follow the prompts

■ Charging

- To charge battery, connect Micro - USB cable to Crystal as indicated.
- Flashing red light indicator means Crystal is charging. When red light indicator stays lit, battery is fully charged.
- Fast blinking warns of low battery, and Crystal should be charged.
- You can charge Crystal with the Micro - USB cable connected to a USB charger, PC, or smartphone.
- The Micro - USB cable charges at 5V / 1A.

Charging time is longer when Crystal is turned on.



02 NOTES

- Contents of manual are subject to change without notice.
- V-smart is not responsible for inappropriate use of Crystal.
- V-smart is not responsible for loss of memory or files from inappropriate use of Crystal.
- Do not use Crystal in extreme temperatures or when the device is wet.
- Keep Crystal away from direct sunlight, fire, and other heat sources.
- Do not submerge Crystal in water.
- Do not strike, drop, throw, or attempt to disassemble Crystal.
- Keep Crystal out of reach of babies and young children.
- Do not allow young children to use Crystal without adult supervision.
- Use an appropriate charger (5V/1A) to charge Crystal.
- When Crystal is not used for an extended period of time, the battery may lose its charge. Please keep battery at least 60% charged.
- This manual is for reference only. Actual performance of Crystal may vary based on usage patterns and the environment.
- When the CrystalDisk app is updated, functions may be added or removed.
- For the latest functionalities, please refer to the version released on the
- Apple App Store or Google Play.
- Android and Google Play are trademarks of Google Inc.
- iPhone, iPad, and iPod touch are trademarks of Apple Inc.
- Wi-Fi is a trademark of the Wi-Fi Alliance.
- All other trademarks are the property of their respective owners
- FCC Warning:
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

- However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.
- 5 GHz devices only :
High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and / or damage this device. No configuration controls are provided for this wireless equipment allowing any change in the frequency of operations outside the FCC grant of authorization for US operation according to Part 15.407 of the FCC rules.
- FCC RF exposure statement :
"This device complies with FCC's radiation exposure limits set forth for an uncontrolled environment"
"The device must not be co-located or operating in conjunction with any other antenna or transmitter."
- 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.

03 Q&A

Q : How does 5G Wi-Fi Flash Disk differ from other OTG products?

A : Ultra speed and space. The Crystal leaves the others behind since it uses cutting-edge tech — MLC memory — for incredible storage !

Those other OTG products are hybrids of memory card and card readers with crude designs, low speeds and short lifetimes.

Other OTG products are way behind when loading large amounts of data.

Discover how Crystal offers quick loading of massive data – without the hassle! MLC is faster and longer-lasting than the cheaper TLC memory.

Q : Can I use Crystal without an internet connection?

A : Yes, the Crystal connects to other devices via Wi-Fi communication for data transfer. It does not involve a connection to the internet.

Q : Can I use the internet while using Crystal?

A : Yes. When you are connected to the Crystal, you can still use the internet via Wi-Fi with appropriate app settings.

Q : Why do you choose Crystal but not Drop Box nor iCloud nor Google Drivr nor others?

A : About 5 meters radius

Q : How long does the battery last?

A : 5 hours of continuous data backup, depending on usage.

Q : How far is Crystal's transfer data?

A : About 3 meters radius

Q : How long does it take to copy a 90-minute movie?

A : A 90-minute movie (MKV file/1080p/1.78GB) only takes 200 seconds (3.3 minutes).

Q : How many songs can be stored on Crystal of 64GB / 128GB / 256GB?

A : For a MP3 file of 3.79 mb can play for 4 minutes.

Crystal of 64 GB can store 16,211 songs

Crystal of 128 GB can store 32,422 songs

Crystal of 256 GB can store 64,844 songs.

The amount of songs to be stored varies according to the formats and length and other factors of the songs.

Q : How many photos can be stored on Crystal of 64GB / 128GB / 256GB?

A : Taking photos by iPhone 6, the resolution is 2448 x 3264 pixels in JPG file.

One photo is about 1.66mb .

Crystal of 64 GB can store 37,012 photos

Crystal of 128 GB can store 64,024 photos

Crystal of 256 GB can store 128,048 photos

The amount of photos to be stored varies according to the format, resolution and other factors of the photos.

Q : How many movies can be stored on Crystal of 64GB / 128GB / 256GB?

A : A 90 minutes video in MP4 HD 720P X264 / AAC, is about 2GB.

Crystal of 64 GB can store 30 movies

Crystal of 128 GB can store 60 movies

Crystal of 256 GB can store 120 movies

The amount of movies to be stored varies according to the format, resolution and other factors of the movies.

Q : How far is Crystal's transfer data?

A : ① For Security reason, in case of Hacking.

② The Data Transfer rate of 5G Wi-Fi is Fastest, comparing with 3G or 4G devices.