USB Mini

Portable USB Duplicator

User's Guide

CONTENT

I. Product Introduction

1. Overview

The new compact USB Duplicator will produce up to two mirror image copies of any USB device at lightning fast speed – up to 2GB per minute.

The Checking Capability will determine defective devices & the Capacity Checker enables you to determine the actual capacity of a device. The Speed Measuring function will determine a devices actual read & write speed.

2. Features

- Quick checking function to easily detect defective Flash devices
- Standalone, no PC required
- High data transfer speed up to 2GB/ min
- Compact, lightweight design and user friendly with operation
- Supports multiple Flash devices such as SD, MS, CF through a qualified USB interface card reader.

3. Package Content

USB Mini Portable USB Duplciator   Power Adapter (5V, 2A)

4. Basic Instructions

A. System Overview

LCD ●

● ⤊ Forward

1

2

3

◉ OK

⊗ ESC

USB Master port

USB Target port ●

Signal LED ●

● ⤋ Backward
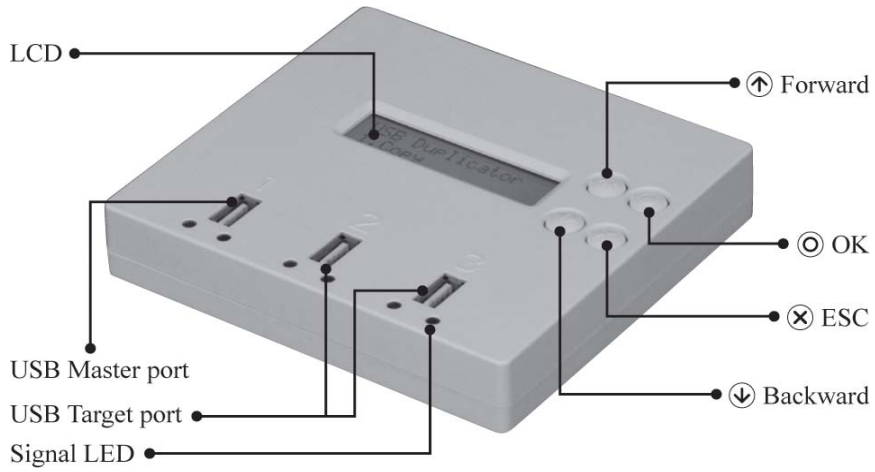
B. Side

Power Switch and Power Supply Input

Power supply ●

Power switch ●

C. LCD Configuration

Copy   870M ◀ Total Content Size

Copy Process ➡ 21%   0:20   275M ◀ Copied Size

Time
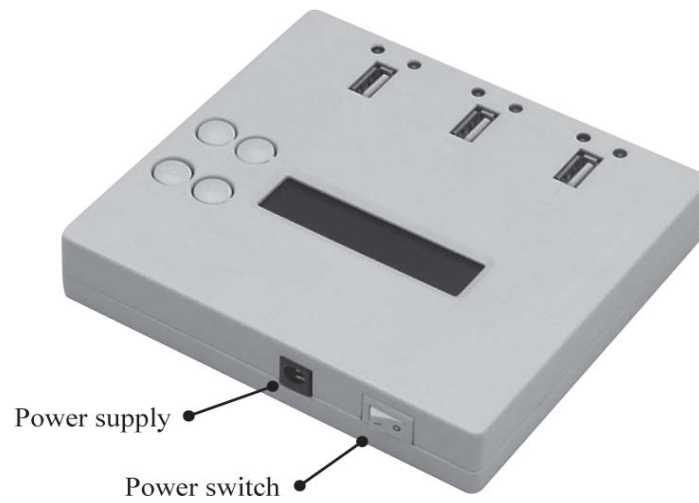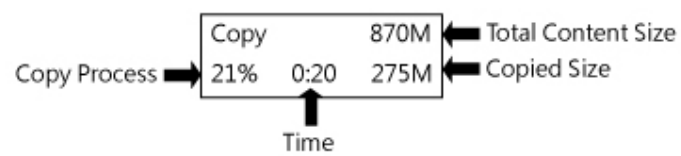
5. Function Table

| Function	Description
1. Copy	USB/SD/Micro SD/CF Flash copy.
2. Compare	This option makes bit-by-bit comparison between the master source and all other copied flash cards.
3. Copy+Compare	This option will make a copy first and then compare the copied Flash devices with the source immediately after the copy has finished.
4. Utility	
4.1 Device Info.	This function will show the Flash device's general information including capacity, format and data size.
4.2 Chk USB Virus	To check USB VIRUS on Flash devices.
4.3 Capacity Check	To check Flash devices real capacity.
4.4 Format FAT	To execute Flash FAT16/32 format.
4.5 Measure Speed	To measure Flash device's read and write speed.
4.6 Erase Content	To quickly erase the contents on a Flash device (support FAT format).
4.7 System Info.	To check the firmware version.
4.8 System Update	To update the firmware via USB.
5. Setup	
5.1 Copy Area	To set copy area.
5.1.1 Only Data Area	To detect the format FAT16,32/NTFS/Linux (Ext2, Ext3) and directly copy the data area.
5.1.2 Whole Media	To copy the Flash devices whole content including empty space.
5.2 Button Beep	To hear a beep or not when pressing a button.
5.3 Language	Supports English and Japanese

II. Function Introduction

1. Copy

The USB Mini Portable USB Duplicator copies data from source Flash devices to target Flash devices. The default setting copy area is "Data Only". If you would like to change the copy area from "Data Only" to " Whole HDD" or "All Partitions", please refer to function [5.1 Copy Area] to select other copy modes.

Copy steps:

Insert source Flash Device(Master) and target Flash devices into duplicator→Select [1. Copy]→Press [OK]→ The LCD will show the number of target Flash devices detected and Press [OK] to start copying→Copy processing→Copy finished→Press[ESC] to finish copy.
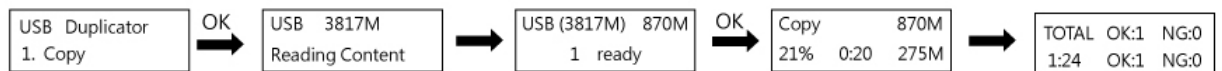
In <Data Only> Mode:
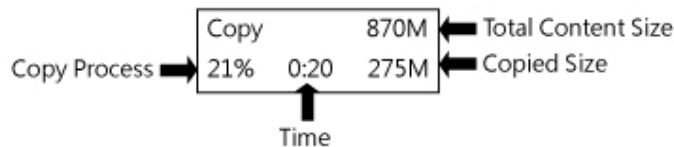
**Do not remove any Flash device while it is processing.

** It is strongly recommended that the target devices and source (master) have the same capacity.

** After copying, the target flash device data and format will be the same as the source flash device. Original data on target flash devices will no longer exist.

** When the copying process is in progress, the green LED will flash. When the process has finished the green LED will stop flashing but will remain illuminated. If an error occurs the red LED will illuminate.

2. Compare

This function is used to check if the data on the source Flash device is identical to the copied Flash devices after duplication.

Compare Steps:

Insert Flash devices into duplicator→Select [2. Compare]→Press[OK]→Compare

Processing→Compare finished→ Press[ESC] to finish compare.

| USB Duplicator
2. Compare | OK | USB 3817M
Reading Content | | Compare 870M
21% 0:20 275M | | TOTAL OK:1 NG:0
1:24 OK:1 NG:0 |

Compare Process → Compare 870M ← Total Content Size
21% 0:20 275M ← Compared Size
Time

**Do not remove any Flash device while it is processing.

** When the copying process is in progress, the green LED will flash. When the process has finished the green LED will stop flashing but will remain illuminated. If an error occurs the red LED will illuminate.
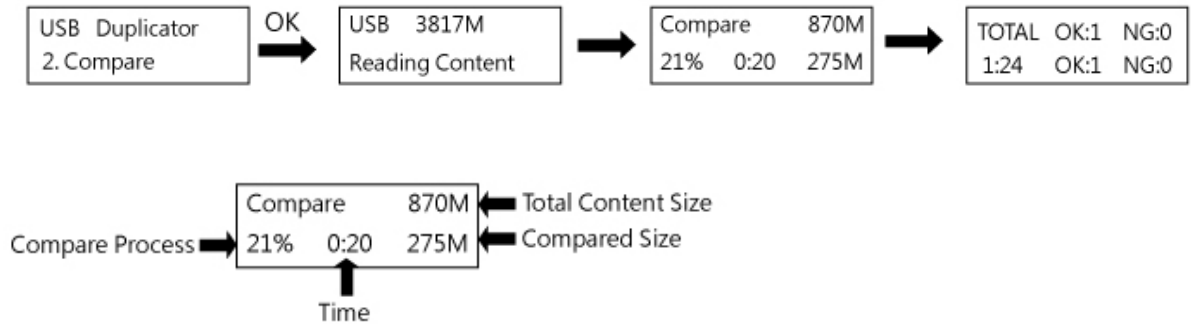
3. Copy & Compare

This function first makes a copy and then compares the target Flash devices with the source(master) Flash device to ensure data integrity.

4. Utility

4.1 Device Info.

This function displays the Flash device's general information including capacity, format and data size.

Show Flash device's Info. Steps:

1. Insert Flash devices into duplicator→Select [4. Utility]→Press [OK]→Select [4.1 Device Info.]→Press [OK]→System displays the devices info.

| USB Duplicator
4. Utility | OK | [Utility]
1. Device Info. | OK | [#01] USB 3817M
FAT32 870M |
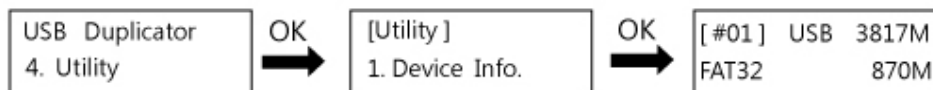
2. Press [Forward]/[Backward] to check other Flash devices' info.→ Press [ESC] to finish

Flash No. → [#01] USB 3817M ← Capacity
Format → FAT32 870M ← Data Size
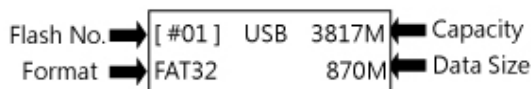
4.2 Check USB Virus

This function quickly helps to check USB Flash devices for any hidden USB VIRUSES.

**This function is specially designed for Auto Run USB VIRUS checking only, not for other types of

viruses. It can only check to see if the virus is present, but cannot clean or eliminate the virus.

Show Flash device's USB virus Steps:

1. Insert Flash devices into duplicator→Select [4. Utility]→Press [OK]→Select [4.2 Chk USB
   Virus]→Press [OK]→System will search for USB Viruses

   When red LED is on, it means the system found a potential risk of a USB Auto run virus.
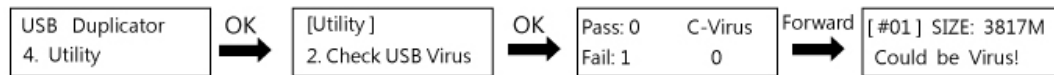
2. Press [Forward]/[Backward] to check other Flash devices' for viruses→ Press [ESC] to finish
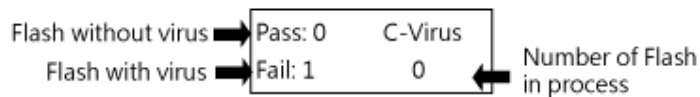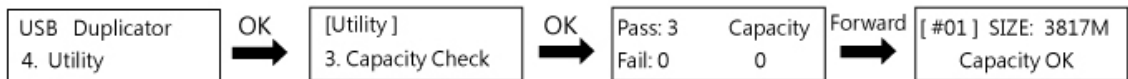

4.3 Capacity Check

This function checks Flash device's real capacity and checks to ensure that the Flash devices work.

Check Flash device's real capacity Steps:

1. Insert Flash devices into duplicator→Select [4. Utility]→Press [OK]→Select [4.3 Capacity
   Check]→Press [OK]→System analyzes the Flash device's real capacity

2. Press [Forward]/[Backward] to check other Flash devices' real capacity→ Press [ESC] to finish

**Capacity check function supports asynchronous operation; you can plug in and pull out Flash devices
to check their real capacity continuously without pressing any other buttons.

4.4 Format FAT

This function formats Flash devices. The system will automatically format the Flash device according
to its capacity. If the Flash devices capacity is above 2GB, the system will format the Flash device to
FAT32, if the Flash devices capacity is below 2GB, the format will be FAT16. During the format process,
you can check each Flash device's formatting status by pressing [Backward]/ [Forward].

**The source (master) port (port #1) does not execute format function.

Formatting Flash device Steps:

1. Insert Flash devices into duplicator→Select [4. Utility]→Press [OK]→Select [4.4 Format FAT]→Press [OK]→System formats the Flash devices

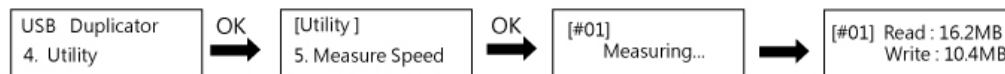| USB Duplicator
4. Utility | **OK** | [Utility]
4. Format FAT | **OK** | Do FORMAT
Confirm ? | **OK** | Pass: 2　　Format
Fail: 0　　　0 | **Forward** | [#02] SIZE: 3817M
Format Complete |

2. Press [Forward]/[Backward] to check other Flash devices' format status→ Press [ESC] to finish.

4.5 Measure Speed

This function measures a Flash device's read and write speed.

Check Flash device's speed Steps:

1. Insert Flash devices into duplicator→Select [4. Utility]→Press [OK]→Select [4.5 Measure Speed]→Press [OK]→System checks the Flash devices speed.

| USB Duplicator
4. Utility | **OK** | [Utility]
5. Measure Speed | **OK** | [#01]
Measuring... | | [#01] Read : 16.2MB
Write : 10.4MB |

2. Press [Forward]/[Backward] to check other Flash devices' speed→ Press [ESC] to finish.

4.6 Erase Content

This function erases a Flash device's data content, it will not erase Flash FAT16/32 format. If format is not FAT16/32, the quick erase will not execute.

**The source port (port #1) does not execute erase function.

Erasing Flash device's content Steps:

1. Insert Flash devices into duplicator→Select [4. Utility]→Press [OK]→Select [4.6 Erase Content]→Press [OK]→System quickly erases the data on Flash devices

| USB Duplicator
4. Utility | **OK** | [Utility]
6. Erase Content | **OK** | Do ERASE ALL
Confirm ? | **OK** | Pass: 2　　Q. ERASE
Fail: 0　　　0 | **Forward** | [#02] SIZE: 3817M
Erase Complete |

2. Press [Forward]/[Backward] to check other Flash devices' erasing status→ Press [ESC] to finish.

4.7 System Info.

This function shows the basic information of this system, which includes model number and firmware version.
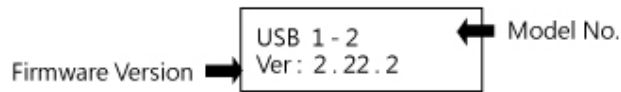
4.8 System Update

This function updates the system's firmware version. Please save an un-zipped update file to your Flash device (DO NOT save the file in a folder). Insert the Flash device in slot (port #1) and select [8 System Update], press [OK], the system will automatically start to update firmware. When it finished, turn the system off for 5 seconds and then turn it on, the new firmware will be upgraded.

5. Setup

5.1 Copy Area

There are two options for copy: Only Data Area and Whole Media.

Only Data Area: This function automatically analyzes the source Flash device's file format. If the format is FAT16,32/NTFS/Linux (Ext2, Ext3) which is recognizable by the system, it will copy the data only instead of copying the whole Flash device content. If the format is non-recognizable, the system will copy the whole Flash device including empty space. For example a 2GB Flash card which is FAT32 file format and has only 50 MB of data inside; the system will only copy that specific 50MB of data, and will only take a few seconds to copy the source (master) device.

*** The default setting of copy area is "Only Data Area".*

Whole Media: By setting up the duplicator to Whole Media function, the system will copy the whole Flash devices content, including the empty space and format. This function is used when you have a Flash source (master) which has an unknown file format and you don't want the system to be confused by such a format. For example a 2GB flash card which is FAT32 file format and has only 50 MB of data inside; if you setup "Whole Media" the system will copy the whole 2GB of content on your Flash device. It will take much longer to copy the source.

5.2 Button Beep

You can select to hear a beep or not when you press the buttons.

5.3 Language

This function is to setup the language.

III. FAQ

Q1: Can I use USB Mini to copy other Flash devices such as Micro SD?

A1: Some users may use a USB card reader to copy other types of Flash devices, such as SD, CF, and Memory Sticks etc. Due to the different quality and stability of the USB card readers in the market, a poor-quality card reader may damage the system and the quality of copies. Therefore, it is recommended to copy SD/Micro SD/CF by using a qualified USB card reader.

USB card reader supports all major Flash devices including SD, Micro SD and CF.

Q2: Can I use USB devices with larger capacity that differs from the other devices for duplication in this system? (For example 4GB to 1GB)

A2: To avoid unexpected poor quality data duplication, it is strongly recommended that target and source devices have the same capacity.

Q3: What is the biggest capacity of Flash that USB Mini can support?

A3: Theoretically, it may support larger capacities. Based on our current tests, the USB Mini can support flash devices with a capacity of 16GB.

Q4: Can USB Mini check all kinds of virus?

A4: USB Mini's check USB Virus function is for checking Autorun Virus only and not for cleaning.

Q5: Can I copy data by USB HDD?

A5: Not recommend to use it for copy of USB HDD. There will be higher failure rate using some hard drives, especially with big capacity. It is highly recommended to use professional hard drive duplicator to make copies of HDD.

VI. Specification

Model		USB Mini
Target		2
Operation		Standalone
Support media		USB1.1 / USB2.0 SD / SDHC / Micro SD / MMC / Mini SD / CF (by USB multimedia card reader)
Display		2 x 16 Bright LCD Display
Control Button		4 Buttons (Forward , Backward, OK, ESC)
LED		Green/Red LED on Each Slot
Temperature	Working	5°C~45°C
	Storage	-20°C~85°C
Humidity	working	20%~80%
	Storage	5%~95%
Power Supply		DC +5V, 2A (Adapter)
Copy mode		Full Copy, Quick Copy
Check function		Device Info., Capacity Check, Speed
Language		English, Japanese
System Dimension (L x W x H Inch)		4.7" x 5.1" x 1"
* USB multimedia card reader adapter is an optional accessory. It is strongly recommended to use Flash drives with the same capacity for duplication. Specification are subject to change without notice.		

FC CE RoHS compliant