

CF/CFast Series

1 to 1 Portable Copier

User Manual

v A.03



Index

Product Disclaimer
Warranty3
Piracy Statement
Before You Start4
Notice Symbols
Hardware Overview
Function Table
Function
1. Copy
2. Compare9
3. Copy+Compare9
4. Show CF/CFast Info10
5. System Info10
6. Utility
7. Setup14

Product Disclaimer

U-Reach is not accountable for any incidental or consequential damages, including, but not limited to property harm, loss of time or data from use of any U-Reach products or any other damages attributable to product malfunction or failure of including without limitation, those attributed to reliance of the materials provided, costs of product replacement, loss of use, data or profits, delays or business interruptions, any principle of legal responsibility arising from or in reference to the use, overall performance, delays in servicing, or lack of ability to render service of any U-Reach product. U-Reach makes every effort to ensure proper function of all products. However, the customer is responsible to verify that the output of U-Reach product meets the customer's quality requirement. The customer further acknowledges that improper use of U-Reach products, software program, and/or hardware issues can cause loss of data, defective formatting, or unreliable data loading. U-Reach will make efforts to resolve or repair any issues recognized by customer either within the warranty period or on a time and materials basis. Specifications and features are subject to change without notice or obligation.

Warranty

U-Reach provides a basic one-year parts and labor warranty for all its products, excluding cables, adapters, and other consumable items. An extended warranty may be purchased. Telephone and email support is available for the life of the product as defined by U-Reach.

All warranties are specific to market region and will be defined per market region in which the product was purchased.

Piracy Statement

U-Reach accepts no responsibility for copyright infringement or misuse of any U-Reach equipment. Copying any form of data (audio, video, or software) without the permission of the copyright holder is illegal. It is the sole responsibility of the user to ensure that the legal copyrights of the copyright owners are respected.

Before You Start

Important Notice

- Carefully read the entire manual before operating.
- Make sure the source device is correct and functioning.
- Equal capacity of source and target is recommended for guaranteed data consistency.
- Using the Copy+Compare function provides the most flawless duplication.
- Damage incurred due to non-compliance with our operating instructions will void the warranty.
- Store the equipment safely when not in use and keep out of the reach of children.
- Please turn off duplicator before replacing sockets.
- Never turn off the power while the firmware updates.
- Use only approved, stable power sources.
- The power supply has overload protection. When it is overloaded and shutdown, please unplug the power cord for 2 minutes for discharging.
- Use product only in a clean, dry, dust-free, and ventilated area. Liquids or foreign debris can severely damage your duplicator.
- It is typical for the machine to heat up during operation.
- While in use, do not move the duplicator or remove SSDs.
- Static electricity may cause duplication error. Please pay attention to the duplicator's environment while operating equipment. Purchasing electricity elimination equipment helps avoid shock.
- Devices will operate at high-temperatures during selected tasks.
- Wear protective gloves to prevent burns when handling devices.
- Ensure machine and operator are properly grounded to prevent ESD.

Notice Symbols

Special items, procedures, or notes to be observed prior to use:

Note	Refers to related duplicator operations, special details, tips, or
NOLE	suggestions for operational effectiveness.

Caution	Refers to procedures that need to be adhered to or precautions.

Hardware Overview

Front View



LCD Display



Function Table

Function	Description			
1. Сору	Data and whole media duplication only.			
2. Compare	Bit-for-bit comparison between the source and target flash medias.			
3. Copy+Compare	First copies, then compares the target to the source once duplication is completed.			
4. Show CF Info.	This feature will show CF/CFast card's brand, FW Version, S/N, capacity, file format, and content size.			
5. System Info.	This feature will and firmware ve	This feature will show system information, such as, model number and firmware version.		
		6.1.1 Auto Format Auto formats media to FAT16 or 32.		
		6.1.2 FAT16 Format Formats media to FAT16.		
	6.1 Do Format	6.1.3 FAT32 Format		
		Formats media to FAT32.		
		6.1.4 Set FAT 16 Cluster Size		
		Sets FAT16 Cluster size.		
		6.1.5 Set FAT 32 Cluster Size		
		Sets FAT 32 Cluster size.		
6. Utility	5.2 QUICK Erase			
	Erases flash media content, while keeping the FAT format.			
	6.3 Full Erase			
	Fully erases flash data bit-for-bit, including format and content.			
	6.4 DOD Elase			
	Defense (DoD) standards			
	6.5 System Update			
	System firmware update via the flash media.			
	6.6 Show Transfer Mode			
	Shows the latest transfer mode which the connected device can			
support.				
		System and Files		
7 Setun	7.1 Copy Area	Automatically analyzes the source data's format		
7. Jetup		and copies only the data area.		
		Whole Media		

(Copies the flash's entire content, including the	
e	empty space.	
7.2 Button Sound		
Enables or disables the audible beep.		
7.3 Power Off Time Between Copy&Compare		
Sets the power off time between Copy and Compare.		
7.4 CF Transfer Mode		
Sets data transmission speed.		
7.5 CF Speed		
Sets data transmission speed.		
7.6 Enable Source Error		
Sets the allowable number of bad sectors of the source.		
7.7 Set to Default		
Reverts everything	g back to the original manufacturer settings.	

Function

1. Copy

Before executing this function, please read "Setup Before Copy" to better understand the copy process and results.

CF Duplicator	Сору		7695M
1. Copy (Data)	3%	0:27	(2)270M

Copy Area

Copy area setting \Rightarrow [7. Setup >> 7.1 Copy Area] Before duplication, select the data area with "Copy area".

Select "System and Files"	Select "Whole Media"
1. Copy (Data)	1. Copy (Whole)

	• If flash card is removed during copy process, the system will stop	
	immediately, and the red light will illuminate to notify user that the	
Note	copy has failed. Removing the flash card during copy is strongly	
Note	discouraged as it will damage the flash card.	
	Backup the data on target flash cards before starting the copying	
	process as any preexisting data will be lost once copy is complete.	

★ Setup Before Copy

There are several sub-functions related to copy results, which can be adjusted in function

- [7. Setup] before copying.
- 1. Copy Area [Function 7.1]
- 2. Power Off Time Between Copy+Compare [Function 7.3]

2. Compare

The compare function checks the accuracy of copy result. After the copy finishes, go to function 2 and press "OK" to start the compare process.

CF Duplicator 2. Compare

3. Copy+Compare

This is the most convenient function. Rather than going to function [2.Compare], then pressing "OK" after copy finishes, function [3.Copy+Compare] automatically runs the compare function after copy completion to ensure an accurate copy result.

CF Duplicator

3.Copy+Compare

\star How to Ensure Duplication is Correct?

CF121/CFast121 provides the most precise "compare function" to provide our clients with the most reliable duplications. Using function [2. Compare] or [3. Copy+Compare] is strongly recommended for guaranteed copy accuracy.

- Execute Function [2. Compare] for data checking between source and targets after copy has concluded.
- Select Function [3. Copy+Compare] to automatically execute data comparison after copy has finished.

	1. These two functions will examine the contained data, post copy, via			
strict bit-for-bit comparison. This highly increases data accuracy.				
Note	2. User is responsible for verification of targets' quality. Testing a few			
	completed targets in a mass production environment for quality control is			
	recommended.			

4. Show CF/CFast Info

Check CF card Information

Go to function 4 and press "OK" to start to a read of CF/CFast card's Information. It will show 4 Information. CF/CFast card's brand, FW Version, S/N and capacity. Use ▲ ▼ to view the Information.



5. System Info

Check duplicator Information

Go to function 5 and press "OK" to start to a read of duplicator's firmware version and press ▼ to view more information, such as machine ID.



6. Utility

6.1 Do Format

	User is responsible for verification of targets' quality. Testing a few	
Caution	completed targets in a mass production environment for quality control is	
	recommended.	

6.1.1 Auto Format

This function formats flash into FAT. Plug in the flash media and press "OK". The system will automatically detect its capacity, then format the media per its capacity.

- If the flash media format is already FAT16 or FAT32, the format function won't alter its original format.
- If the original flash media is not FAT format, i.e. NTFS, Linux or FAT multipartition.

The system will format per flash's capacity. If capacity is above 2GB, the system will format the flash to FAT32 and below 2GB, the system will format the flash to FAT16.

Capacity < 2GB	Format FAT16
Capacity > 2GB	Format FAT32

Note The source port will not perform any formatting because this function will delete the flash media's data.

6.1.2 FAT16 Format

Sets the FAT16 format.

6.1.3 FAT32 Format

Sets the FAT32 format.

6.1.4 Set FAT16 Cluster Size

Sets the FAT16 cluster size.

6.1.5 Set FAT32 Cluster Size

Sets the FAT32 cluster size.

\star Erase the Flash Card

Caution Flash data will be wiped out. Please make sure to backup all important data before using this function.

6.2 Quick Erase

This function erases flash data while keeping the format if the original flash format is FAT16/32. Use the ▲ ▼ buttons to view status, progress, and information.

Note

Quick erase function will erase only FAT 16/32 formatted flashes.

[U	tility]	
2	Ouick	Fras

Do ERASE ALL

Confirm?

6.3 Full Erase

Completely erases the entire flash media, including format and content. This task takes longer. Pressing <ESC> during this process will abandon the task, but the original format and content will no longer be readable.

[Utility]	Do ERASE ALL
3. Full Erase	Confirm?

6.4 DoD Erase

DoD Erase complies with the U.S.A. Department of Defense (DoD 5220) standards by erasing the flash three times, which guarantees that data is completely scrubbed.

[Utility]	Do ERASE ALL
4. DoD Erase	Confirm?



6.5 System Update

Save the firmware in a CF/CFast card and insert the card to source port. Go to function [6.5] System Update, and press OK to update duplicator's firmware.

[Utility] 5. System Update

CautionThe firmware update process may take longer than 5 minutes. Please do
not disrupt power or process during BIOS update. If interrupted, the
system will become useless. The manufacturer will not be held
responsible for any damages.

6.6 Show Transfer Mode

Shows the latest transfer mode which the connected device can support. Go to function [6.6] Show Transfer Mode, and press OK to get information.

Example:

[Utility]

6. Show Transfer Mode

[#1] Support

PIO6, MDMA4, UDMA6

7. Setup

7.1 Copy Area

• Copy Area: System and Files

Also known as "Quick Copy". The source's format is automatically analyzed and if it's recognizable, such as, FAT 16/32/64, NTFS, or Linux ext. 2/3/4, the system will copy the data only, rather than the entire flash.



Note If the file format is not recognized, the whole flash card, including empty space, will be copied even if you specify copy area in "System and Files".

2 Copy Area: Whole Media

The system will copy the whole flash card, including empty space and format. This function is useful when users want to copy the whole flash or have a flash source with an unknown format. "Whole media" copies take a bit longer to complete.



7.2 Button Sound

Controls whether to hear a sound when a button is pressed.



7.3 Power Off Time Between Copy+Compare

The use of this setting is highly advised as it prevents data loss due to unstable flash. Users can set the time gap of power supply between copy and compare. The time gap can be set from 0 to 15 seconds. The default is "0".

[Power Off Time Between]

0

7.4 CF Transfer Mode

There are 7 CF/CFast transfer mode options to choose from. The default setting is UDMA4, which automatically adjusts the speed per your CF/CFast card. If unsure of the CF/CFast card's quality, you can manually reduce the transfer speed.

There are 7 transmission speed options:

- PIO Mode 4
- MDMA Mode 2
- UDMA Mode 0
- UDMA Mode 1
- UDMA Mode 2
- UDMA Mode 3
- UDMA Mode 4 (Default)

7.5 CF Speed

There are 5 transmission speed options:

- Slowest Mode
- Slower Mode
- Normal Mode (Default)
- Faster Mode
- Fastest Mode

Use a good quality flash media that supports a faster mode. If unsure about the flash quality or notice a high copy/compare failure rate, use a slower transmission speed. The default setting is "Normal Mode".

[Select Speed]

UDMA Mode 4

15

7.6 Enable Source Error

Skips Source bad sectors during Copy/ Compare/ Erase.

Scroll to select "Enable Source Error", then press "OK" to scroll through the available values for skipping source bad sectors. If the data of source is critical and needs to be a full clone, it is recommended to set "0."

7.7 Set to Default

Restores original default settings.

Warning:

Clear Parameter to Default?

Complete

All Parameter was cleared!

*Specifications subject to change without notice.