Intelligent 9 Series

CF/CFast/CFast-Native

Duplicator & Tester

User Manual v A.03

Index

v A.03

Product Disclaimer

U-Reach is not accountable for any incidental or consequential damages, which includes, but is not constrained to property harm, loss of time or data from use of a U-Reach product, or any other damages attributable to product malfunction or failure (including without limitation, those attributable to: (1) reliance of the materials provided, (2) costs of product replacement, (3) loss of use, data or profits, (4) delays or business interruptions, (5) and any principle of legal responsibility, arising out of or in reference to the use or overall performance or from delays in servicing or lack of ability to render service) of any U-Reach product. U-Reach makes every effort to ensure proper operation of all products. However, the customer is responsible to affirm that out of the U-Reach product meets the customer's quality requirement. The customer further acknowledges that fallacious operation of U-Reach product and/or software program, or hardware issues, can cause loss of data, defective formatting, or 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 subject to change without notice or obligation.

Warranty

U-Reach provides a basic one-year parts and labor warranty for all of its products (excluding cables, adapters, and other consumable items). An optional extended warranty is also available for an added cost. Telephone and email support is available for the life of the product as defined by U-Reach.

All warranties will be restricted and defined by the market region from which customers purchased.

Piracy Statement

U-Reach accepts no responsibility for copyright infringement or misuse of any U-Reach equipment. Copying all forms 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.
- Never turn off the power while the firmware is updating.
- Devices will operate at high temperature during high-speed tasks. Please wear protective gloves to prevent burns when handling devices.
- Devices working in high temperature may cause it to slow down or even shut down. Please make sure the devices are not overheated.
- Ensure machine and operator are properly grounded to prevent ESD.
- 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 noncompliance with U-Reach operating instructions will void the warranty.
- Store the equipment safely when not in use and keep out of the reach of children.
- Use only approved, stable power sources.
- 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 devices.
- Static electricity may cause duplication error. Please pay attention to the duplicator's environment and operator's equipment. Purchasing static electricity elimination equipment to avoid static electricity shock while in high static electricity areas.
- If you want to change your Log password, please keep your password in a safe place in case you lose it. Please understand that the manufacturer does not provide password reset service due to the consideration of personal privacy.

Notice Symbols

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

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

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

Product Introduction

Front View

Souce Port

LED Indicator

Green: Pass/Workir

Red: Fail

Control Buttons

▲: Forward

▼: Backward

OK: Confirm

ESC: Escape

Back View

Power Switch

Power Supply

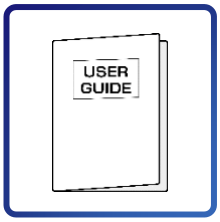
USB Port for PC download

Package

Duplicator x 1

12V DC Adaptor x 1

Power Cord x 1



User Manual x 1

USB Cable for PC Link x 1

PC-Link Software Disc x 1

Power Adapter

Each model may require a different power adapter per its need. The following reference table illustrate adapter requirements for each series.

Reference table (CF/CFast/CFN)

Ports	Adapter	Adapter volume needed when copying CF
4-32	12V 5A	1
40-60	12V 9A	1
80-120	12V 12.5A	1

Function Table

*Below functions and features subject to change without notice.

Silver/Golden: CF / CFast Series

Function	Description
1. Copy	Data or whole media duplication only.
2. Compare	Bit-by-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. Media check	**4.1 H3 Safe 100%** Checks the flash's quality by reading it. This safe check will not change the flash's content or format.
	4.2 H5 RW 100% Checks the flash's quality by reading and writing. This function will change the flash's content and format.
	4.3 H6 SafeRW 100% Checks the flash's quality by writing and reading its empty space. This function will not change the flash's content or format.
	4.4 Setup Range % Sets the flash's checking range percentage.
	4.5 Setup Range MB Sets the flash's checking range in MB.
	4.6 Set Error Limit Sets the error tolerance range when checking the flash. (Units: Sector/KB/MB)
	4.7 Minimum Read Speed Set the minimum read speed criteria for H3/H5/H6 checking.
	4.8 Minimum Write Speed Set the minimum read speed criteria for H5/H6 checking.
	4.9 Low Speed Tolerance Time Sets the tolerance time when flash does not reach the minimum speed from 10~99 seconds. The default value is 20 seconds.

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<tr><td>4.10.2 Set Lower Limit</td></tr>
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<tr><td rowspan="2">5. Information</td><td colspan="3">5.1 CF Info.
This feature will show flash’s data information, file format, content size, and capacity.</td></tr>
<tr><td colspan="3">5.2 System Info.
This feature will show system information, such as, model number and software version.</td></tr>
<tr><td rowspan="8">6. Utility</td><td rowspan="5">6.1 Do Format</td><td colspan="2">6.1.1 Auto Format
Auto formats media to FAT16 or 32.</td></tr>
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<tr><td colspan="2">6.1.3 FAT32 Format
Formats media to FAT32.</td></tr>
<tr><td colspan="2">6.1.4 Set FAT 16 Cluster Size
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<tr><td colspan="2">6.1.5 Set FAT 32 Cluster Size
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<tr><td colspan="3">6.2 Measure Speed
This function measures the flash reading and writing speed. This function will damage the format and content.</td></tr>
<tr><td colspan="3">6.3 Capacity Check (Available in CF and CFast Series)
Checks real capacity of the flash.</td></tr>
<tr><td colspan="3">6.4 Quick Erase
Erases flash media content. It will keep the FAT format.</td></tr>
<tr><td colspan="3">6.5 Full Erase
Fully erases, bit for bit, data on flash, including format and content.</td></tr>
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	6.6 DoD Erase Erases flash three times complying with USA Department of Defense (DoD) standards.	
	6.7 System Update System firmware update via the flash media.	
	6.8 Calc. Checksum Calculates the source's flash media Checksum value.	
7. Setup	**7.1 Start-up Menu** Selects which function to display first upon system start up.	
	7.2 Copy Area	**7.2.1 System and Files** Automatically analyzes source data's format and copies only the data area.
		7.2.2 Whole Media Copies the entire flash content, including the empty space.
	7.3 Button Sound Enables or disables the audible beep when a button is pressed.	
	7.4 Target Tolerance Sets the of capacity gap tolerance between the source and target. Default setting is "No limit".	
	7.5 Asynchronous Enable opens Asynchronous function. Disable closes this function.	
	7.6 Check Before Copy Allows user to check the flash media before duplicating.	
	7.7 Power Off Time Between Copy+Compare Sets the power-off time between Copy and Compare.	
	7.8 Auto Start After Fill Device Sets automatic start of copy/compare once all targets have been inserted.	
	7.9 Language Sets system language.	
	7.10 CF Transfer Mode Sets data transmission speed.	
	7.11 Monitor Device After Copy Allows user to set a device status check after duplication.	

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(copy+compare)</td></tr>
<tr><td>9. Log Manager
(Available in</td><td colspan="2">9.1 Out Today Report
Outputs today’s log records.</td></tr>
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<table>
<tr><td rowspan="4">Golden Series)</td><td colspan="2">9.2 Out Recent Report
Outputs recent log records.</td></tr>
<tr><td colspan="2">9.3 Out Period date
Outputs log records for user defined time periods.</td></tr>
<tr><td rowspan="2">9.4 Advanced Function
Access to this function requires a password</td><td>9.4.1 Clear ALL Log
Clears all log records with password entry.</td></tr>
<tr><td>9.4.2 Setup Password
Sets the password for clearing log records.</td></tr>
</table>

Silver/Golden: CFast-Native Series

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<tr><th>Function</th><th colspan="2">Description</th></tr>
<tr><td>1. Copy</td><td colspan="2">Data or whole media duplication only.</td></tr>
<tr><td>2. Compare</td><td colspan="2">Bit-by-bit comparison between the source and target flash medias.</td></tr>
<tr><td>3. Copy &Compare</td><td colspan="2">First copies, then compares the target to the source once duplication is completed.</td></tr>
<tr><td rowspan="9">4. Media check</td><td colspan="2">4.1 H2 Test
Checks the flash’s quality by reading and writing and leaves the written pattern.</td></tr>
<tr><td colspan="2">4.2 H2 + Format
Checks the flash’s quality by reading and writing and then executes format.</td></tr>
<tr><td colspan="2">4.3 H5 + Format
Checks the flash’s quality by writing and reading and then executes format.</td></tr>
<tr><td colspan="2">4.4 Setup Range %
Sets the flash’s checking range percentage.</td></tr>
<tr><td colspan="2">4.5 Setup Range MB
Sets the flash’s checking range in MB.</td></tr>
<tr><td colspan="2">4.6 Set Error Limit
Sets the error tolerance range when checking the flash. (Units: Sector/KB/MB)</td></tr>
<tr><td colspan="2">4.7 Minimum Read Speed
Set the minimum read speed criteria for H3/H5/H6 checking.</td></tr>
<tr><td colspan="2">4.8 Minimum Write Speed
Set the minimum read speed criteria for H5/H6 checking.</td></tr>
<tr><td colspan="2">4.9 Low Speed Tolerance Time
Sets the tolerance time for “minimum read/write speed.”</td></tr>
<tr><td rowspan="3">4.10 Set Capacity Limit
Sets capacity range when checking the flash device.</td><td>4.10.1 Set Upper Limit</td></tr>
<tr><td>4.10.2 Set Lower Limit</td></tr>
<tr><td>4.10.3 Clear Limit</td></tr>
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This feature will show flash’s data information, file format, content size, and capacity.</td></tr>
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Auto formats media to FAT16 or 32.</td></tr>
<tr><td>6.1.2 FAT16 Format
Formats media to FAT16.</td></tr>
<tr><td>6.1.3 FAT32 Format
Formats media to FAT32.</td></tr>
<tr><td>6.1.4 Set FAT 16 Cluster Size
Sets FAT16 Cluster size.</td></tr>
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Fully erases, bit for bit, data on flash, including format and content.</td></tr>
<tr><td colspan="2">6.5 DoD Erase
Erases flash three times complying with USA Department of Defense (DoD) standards.</td></tr>
<tr><td colspan="2">6.6 Calc. CRC64
Calculates the CRC64 value of the source port’s flash media.</td></tr>
<tr><td colspan="2">6.7 System Update
System firmware update via the flash media.</td></tr>
<tr><td rowspan="2">7. Setup</td><td colspan="2">7.1 Start-up Menu
Selects which function to display first upon system start up.</td></tr>
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Automatically analyzes source data’s format and copies only the data area.</td></tr>
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<tr><td rowspan="11">7. Setup</td><td></td><td>7.2.2 Whole Media
Copies the entire flash content, including the empty space.</td></tr>
<tr><td colspan="2">7.3 Button Sound
Enables or disables the audible beep when a button is pressed.</td></tr>
<tr><td colspan="2">7.4 Target Tolerance
Sets the of capacity gap tolerance between the source and target.
Default setting is “No limit”.</td></tr>
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Sets automatic start of copy/compare once all targets have been inserted.</td></tr>
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Sets the password for clearing log records.</td></tr>
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Function Description

1. Copy

Step 1: Prepare source and target devices.

Note	Recommendation: Target device(s)' capacity must be equal to or larger than the source device capacity.

Step 2: Insert source and target devices.

Step 3: Proceed to copy.

Scroll to select "1. Copy", then press "OK" to start the duplication process.

Note	The number of working/connected targets will be displayed on LCD. Press "OK" to start.

The information below states what is displayed on the LCD during duplication.

Copy		7695M
3%	0:27	(3)270M

(3) indicates Port #3 is the slowest.

Note	• Before duplication, select the data area at "7.2 Copy area" • Press ▲▼ together for 5 seconds to stop operation on the slowest device. • Press "ESC" for 5 seconds to stop all the copy jobs.

Caution	It is recommended to reboot the machine after manually stopping the copy.

Step 4: Copy Completed!

The quantity of passed or failed target device(s) and the copied duration will be displayed on the LCD after duplication completes.

Note (For CFN only)	The CRC64 value will be displayed on the LCD after duplication completes.

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

2. Compare

The compare function checks the accuracy of copy result. Scroll to select "2. Compare", then press "OK" to start the verification process.

3. Copy+Compare

Sequentially automates from Function 1, Copy to Function 2, then Compare.

Scroll to select "3. Copy+Compare", then press "OK" to start the automated duplication and verification process.

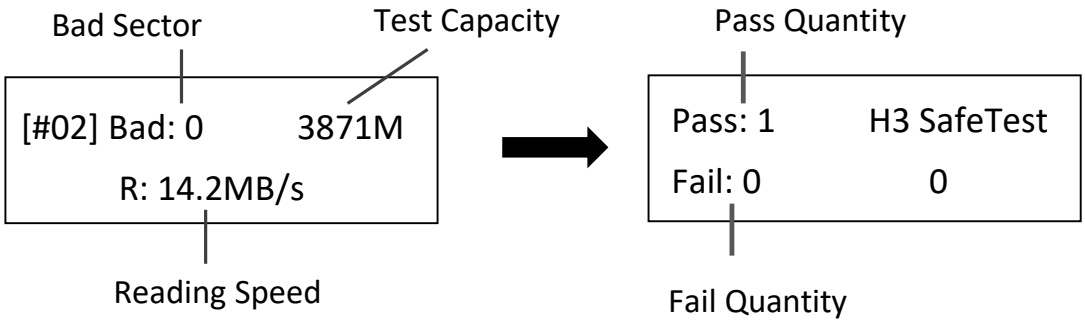
4. Media Check

Note	• Functions mentioned with “Overwrite” will change the content and format of flash media, please do not execute this function if there is important data stored in it. • You can set the checking range in [4. Media Check >> Setup Range]. • To protect source data, the system default setting will not execute this function on the master device.

➢ *CF/CFast Series*

4.1 H3 Safe

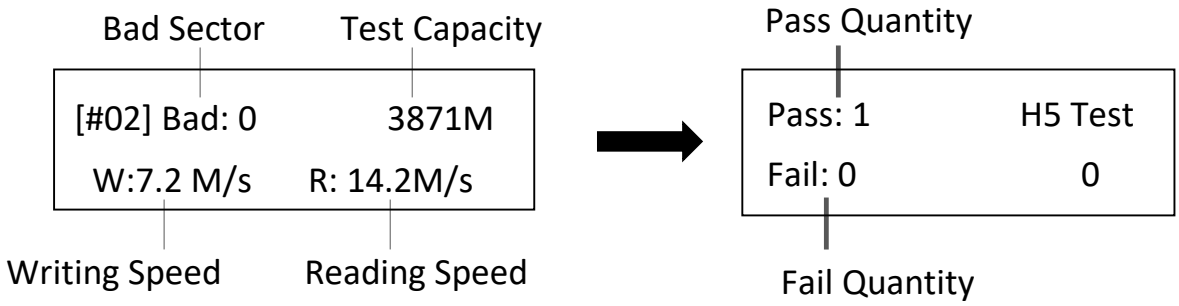
This function reads the flash media to assess its quality. After executing this function, the flash’s bad sector quantity and reading speed will be displayed.
Use the ▲▼ buttons to view the status of each port.



Note	• This function will not alter the content or format. • You can set the checking range in [4. Media Check >> Setup Range].

4.2 H5 RW

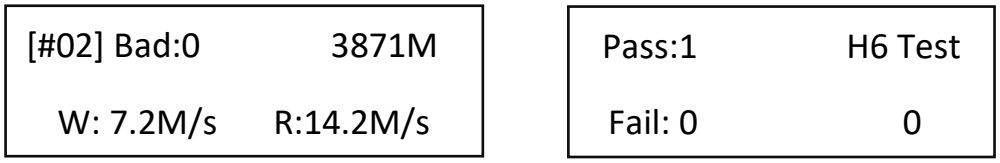
This function performs a read and write test to determine the flash's quality. The flash's original data will be erased during this test. Use the ▲▼buttons to view the status of each port.



Note	The flash device will be formatted at FAT 16/32 once testing is complete.

4.3 H6 SafeRW

This function performs a read and write test on the empty space to determine the flash's quality. The flash's original data will not be erased during this test.



Note	• This function supports FAT16/32 format only. • This function will NOT alter the flash's content.

➢ *CFast-Native(CFN) Series*

4.1 H2 Test

This function performs a read and write test to determine the flash's quality. After H2 Test, the device will contain H2 files which can be verify again through computer's software if necessary.

4.2 H2 + Format

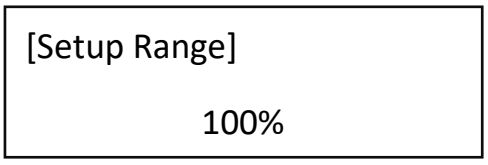
This function performs a read and write test to determine the flash's quality. After H2 Test, it will execute format to delete the H2 files.

4.3 H5 + Format

This function performs a read and write test to determine the flash's quality. After H5 Test, it will execute format.

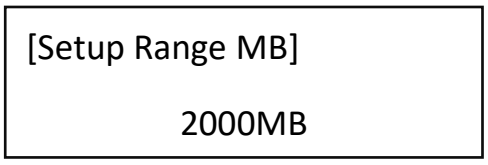
4.4 Setup Range %

This function sets the quality check capacity range. Use the ▲▼buttons to set the range from 1 to 100%. The higher the percentage, the longer it takes.



4.5 Setup Range MB

This function sets the quality check capacity range in MB. Use the ▲▼buttons to set the range from 1MB to 9000MB.



Note	The duplicator will abide by whichever was set last if both Range% and Range MB are set.

4.6 Set Error Limit

This function sets the error tolerance range while checking the flash. Use the ▲▼ buttons to set the error limit value. Select units to use (KB or MB), then select the value.

[Setup Unit]	[Setup Error Limit]
MB	9000MB

4.7 Minimum Read Speed

This function can be used to select the flash media whose reading speed is too slow. Users can set an expected minimum reading speed for media check, so the flash media that doesn't reach the minimum speed value will be identified.

[Minimum Read Speed]
10.0MB/Second

4.8 Minimum Write Speed

This function can be used to select the flash media whose writing speed is too slow. Users can set an expected minimum writing speed for media check, so the flash media that doesn't reach the minimum speed value will be identified.

[Minimum Write Speed]
10.0MB/Second

Note	When the red-light illuminates to indicate that an error has occurred, use the ▲ ▼ buttons to view the error information.

4.9 Low Speed Tolerance Time

Sets the tolerance time when flash does not reach the minimum speed from 10~99 seconds. The default value is 10 seconds.

4.10 Set Capacity Limit

This function is used to set the flash device testing capacity limit. Users can set an upper and lower limit of the flash capacity. To reset, select "clear limit".

[Set Capacity Limit]	[Set Capacity Limit]
1. Set Upper Limit	2. Set Lower Limit

4.11 Set Loop Count

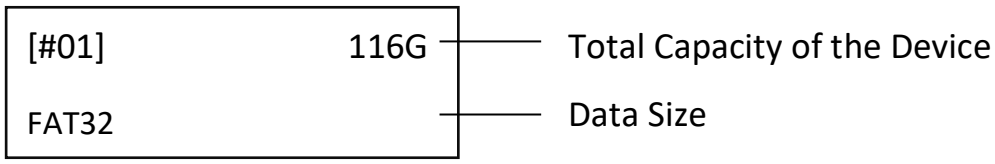
Sets the testing loop count. Each test loop contains a writing & comparing test. Use the ▲ ▼ buttons to set the range from 0 to 10.

5. Information

5.1 CF/CFast Card Info.

This setting displays the flash media's basic information such as file format, content size, and total capacity.

Use the ▲▼buttons to view the information of each flash media, source included.



Note	Using this function will not delete the flash media content or format.

5.2 System Info.

This function displays system information such as model number and software version.

6. Utility

6.1 Do Format

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 multi-partition. 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.

6.2 Measure Speed

This function measures the "read" and "write" flash media speed.

❶ Plug flash media into the slot, select function [3. Measure Speed], then press "OK" to start this function.

CF Duplicator 2. Measure Speed

[#02] Read: 14.7MB Write: 7.0MB

❷ Use the▲▼keys to view the exact "Read" and "Write" flash media speed on each port.

Note	• To protect source data, the system will not execute "Measure Speed" on the master device. • The function may alter the format and data content of flash.

6.3 Capacity Check *(Available in CF/CFast Series)*

This function can quickly check the real capacity if it's claimed.

❶ Plug in flash media, select function [6.3 Capacity Check], then press "OK".

It will take about 3 seconds to determine the exact capacity.

❷ System will show the checking result by use of Green/Red LED light.

❸ Use the ▲▼buttons to check the status of each slot.

Green Light: Capacity OK

[#02] SIZE: 3781M Capacity OK

Red Light: Error

[#04] SIZE: 8M BAD!

Note	
	• This function supports asynchronous operation; you can continually plug and unplug flash media without having to push any buttons. • The function may alter the data content and format of flash. • To protect source data, the system will not run a Capacity Check on the master device. • When the red error light illuminates, you can use the ▲▼to view error information.

6.4 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.

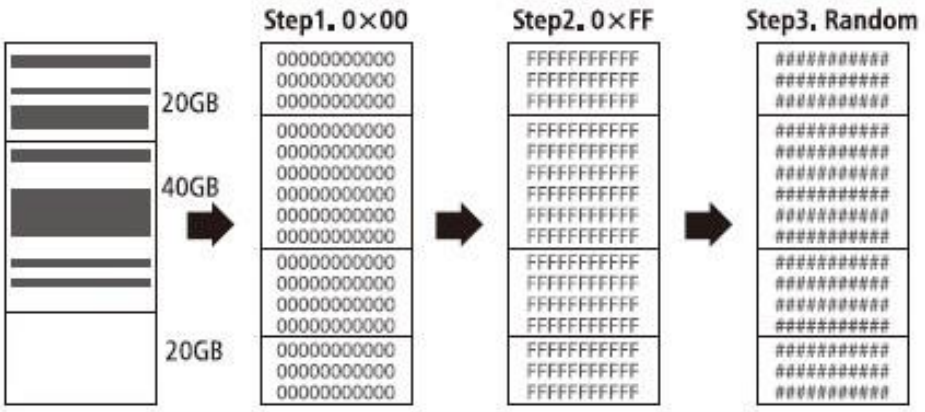
Note	
	Quick erase function will erase only FAT 16/32 formatted devices.

6.5 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.

6.6 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.



Note	Use the ▲▼buttons to view the status of each port during erase.

6.7 System Update

Step 1: Prepare a Flash drive for update.

Connect a Flash drive to PC. Download the latest firmware, unzip the BIOS firmware, then save it to the root directory in the Flash drive.

Note	The format must be: FAT16 or FAT32.

Step 2: Proceed to update firmware.

Connect the Flash drive to the source port of the duplicator. Scroll to select "6.7 Update BIOS", then press "OK" to start the firmware update process.

Caution	The 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.

6.8 Calc. Checksum *(Available in CF/CFast Series)*

This function will count the Checksum value for the source port. The checksum value is an easy way to double check the source data is correct.

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

7. Setup

7.1 Start-up Menu

Sets which function is displayed powered on. The default setting is "1. Copy".

7.2 Copy Area

❶ 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”.

❷ Whole Media

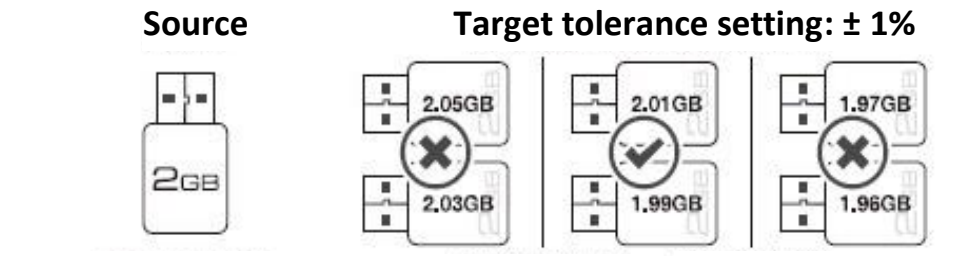
The system will copy the whole flash card, including empty space and format. This function is useful when users want to copy the whole flash or have a flash source with an unknown format. "Whole media" copies take a bit longer to complete.

7.3 Button Sound

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

7.4 Target Tolerance

This function sets the capacities tolerance range between the source and target flash. If the capacity is outside the tolerance range, the copy will fail.
For example, if the target tolerance is set to "±1%", targets whose capacities are 2.02GB or more and 1.98GB or less will not be copied.



7.5 Asynchronous Settings

Users can activate Asynchronous copy by selecting “Enable” or deactivating it by selecting “Disable” For Asynchronous copy to run, the source’s data must be smaller than the system’s buffer memory and set to “Enable”. However, if set to “Disable”, regardless of content size, synchronous copy will be performed.

The conditions of executing “Asynchronous Copy”		
	DISABLE Asynchronous Copy	**ENABLE** Asynchronous Copy
Data **>** Buffer	✗	✗
Data **<** Buffer	✗	✓

Note	The buffer memory may vary depending on product model.

7.6 Check Before Copy

This setting checks if the target devices are capable for read and write.

Note	This function will modify the flash media’s content.

7.7 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".

7.8 Auto Start After Fill Device

Sets auto start of copy/compare task upon insertion of all targets. Users can also choose to confirm tasks first by pressing “Ok”.

7.9 Language

Sets the system's language. (English or Japanese)

7.10 CF Transfer Mode *(Available in CF/CFast Series)*

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

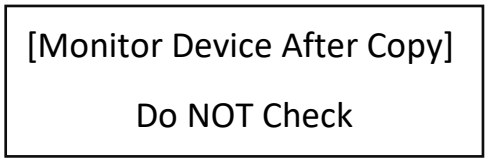
There are 7 transmission speed options:

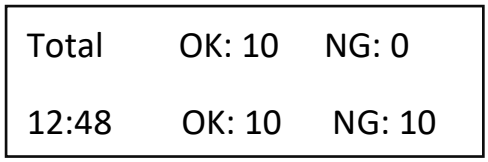
- PIO Mode 4
- MDMA Mode 2
- UDMA Mode 0
- UDMA Mode 1
- UDMA Mode 2
- UDMA Mode 3
- UDMA Mode 4 (Default)

7.11 Monitor Device After Copy

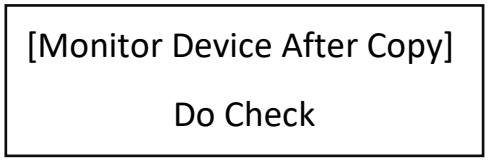
Allows user to set a device status check after duplication. The settings could show different results because each device has various settings.

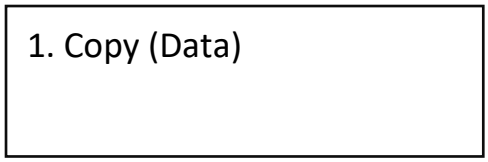
For example, if a device is set to power off automatically after "complete" command, then user must set "Do NOT Check" to make sure the LCD keeps the copy result for reference.





In this case, if set at "Do Check", the copied device will power off automatically after Copy job completes and the LCD will back to the previous job.





7.12 Adjust Clock *(Available in Golden Series)*

Adjusts the duplicator's time clock displayed on the LCD monitor.

7.13 Use Port 2 as Compare Source *(Available in CF/CFast Golden Series)*

This function designates Port 1 as the copy source and Port 2 as the compare source. This double-source setting can eliminate duplication errors caused by a worn source when using [3. Copy+Compare]. This guarantees maximum reliability and 100% duplication accuracy.

Note	Use [3. Copy+Compare] function to ensure copy accuracy.

❶ Select [7. Setup], then choose pick "Use Port 2 as Compare Source".

❷ "Enable" or "Disable" this function.

Note	• Make sure both sources contain identical content. • Despite Port 2 becoming a source, there are some functions that Port 2 doesn't support, such as the erase, H5 test, and speed measuring functions.

7.14 Advanced Setup *(Available in CF/CFast Golden Series)*

❶ Function [7.14.1 LED in Factory Mode]

Set LEDs in Traditional or Factory mode.

[LED in Factory Mode]

Traditional Mode

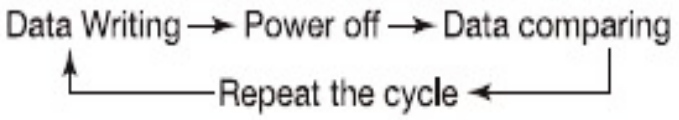
- Traditional Mode (Default): Green lights on after press "OK" and successfully detecting devices.
- Factory Mode #1: All lights off after press "OK" and successfully detecting devices.
- Factory Mode #2: All lights on after press "OK" and successfully detecting devices.

7.15 Set to Default

Restores original default settings.

8. Burn-In *(Available in CF/CFast Golden Series)*

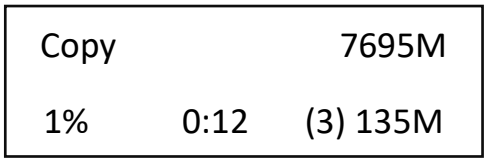
Burn-In is the most useful flash configuration method. The Burn-In test contains three steps: data writing, power off, and data comparing (reading). Users can set writing loop, compare loop, power off time, and writing pattern as needed.

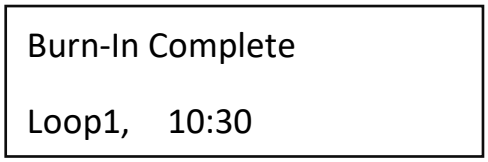


Note	Write protected devices do not support burn-in function.

8.1 Burn-In(Copy+Comp)

The Burn-In test on flash targets continually copies & compares source data. You could view related settings in the table below. The duplicator will abide by the last setting picked if users chose both “Burn Time” and “Loop Count.”





8.1 Burn In (Copy&Comp)	8.3 Set Burn Time
Prepare one Physical Source.	8.4 Set Loop Count
	8.6 Set Bad Limit
	8.9 Power Off Between Loop
	8.10 Compare Count Per Copy

8.2 Burn-In (Auto Data)

The Burn-In test on flash targets continually copies & compares source data. You could view related settings in the table below. The duplicator will abide by the last setting picked if users chose both “Burn Time” and “Loop Count.”

8.2 Burn-In (Auto Data)	8.3 Set Burn Time
No physical Source needed. Choose [8.7 Set Data Pattern] to automatically run test.	8.4 Set Loop Count
	8.5 Set Test Range
	8.6 Set Bad Limit
	8.7 Set Data Pattern
	8.8 Compare Count Per Loop
	8.9 Power Off Between Loop

Note	This function does not require a source device. The system will defer to user’s “Set Data Pattern” settings.

8.3 Set Burn Time

User can set the Burn-In test interval. The test time ranges from 30 mins to 30 days.

[Set Burn Time]
30 min

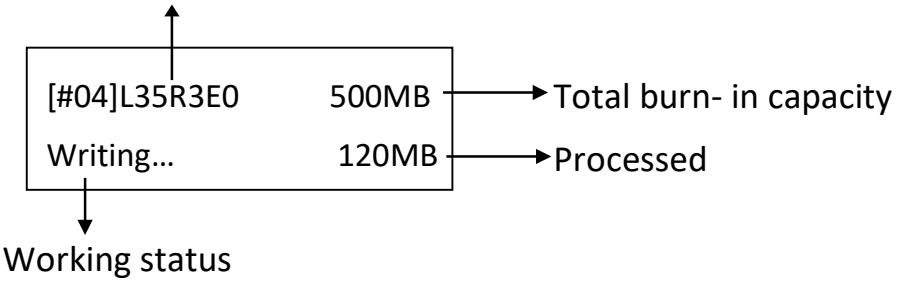
8.4 Set Loop Count

Sets the flash media's Burn-in test loop quantity. Each loop contains 3 processes: writing, power off, and comparing. The loop quantity can be set from 0 to 99999.

L35: The 35th Loop.

R3: The 3th compare in the 35th loop.

E0: Total error quantity.



Note	• Loop 0 is equal to Loop 99999 • The duplicator will abide by the last setting picked if users chose both "Burn Time" and "Loop Count."

8.5 Set Test Range

Sets the flash media test range. The range can be set from 1% to 100%.

[Set Test Range]
100%

Note	"Test Range" setting is only available in [8.2 Burn-In (Auto Data)].

8.6 Set Bad Limit

Sets the error tolerance. Tolerance can be set from 1-10000 bad sectors. The system will count per whole test, not per loop.

[Set Bad Limit]
0

8.7 Set Data Pattern

Sets the Burn-In test writing value. There are two data patterns:

- Auto Pattern: The default value will be used during burn-in test. Default value is random repetition of FF and 00.

- User Defined: Users can manually indicate which value to use during burn-in test. The setting is only 1 byte.

Note	“Data Pattern” setting is only available in [8.2 Burn-In (Auto Data)].

8.8 Compare Count Per Loop

Sets the compare count in each loop during Auto Data burn-in test. The default setting is one compare (reading) test per loop.

Note	“Compare Count Per Loop” setting is only available in [8.2 Burn-In (Auto Data)].

8.9 Power Off Between Loop

Sets the power off time range between loops. This can be set from 0 to 15 seconds.

8.10 Compare Count Per Copy

Sets the compare count in each loop during Copy & Compare burn-in test. The default setting is one compare (reading) test per loop.

Note	Can only be set in [8.1 Burn-In (Copy+Compare)].

9. Log Manager *(Available in Golden Series)*

The Log Report Management Tool assists users with monitoring, recording, and managing the entire duplication process. By displaying detailed information for each port, this tool helps to identify the slowest writing device that in turn, keeps the operation running efficiently. Please refer to “How to Use Event Log? “for details.

How to use PC-Monitoring

PC-monitoring is a convenient tool to monitor real-time status information such as: duplication progress, testing results, and operation log. These information are viewed on your computer screen. This section contains installation and operation instructions.

How to Launch PC-Monitoring:

Step 1: Copy “LV07B” to your PC.

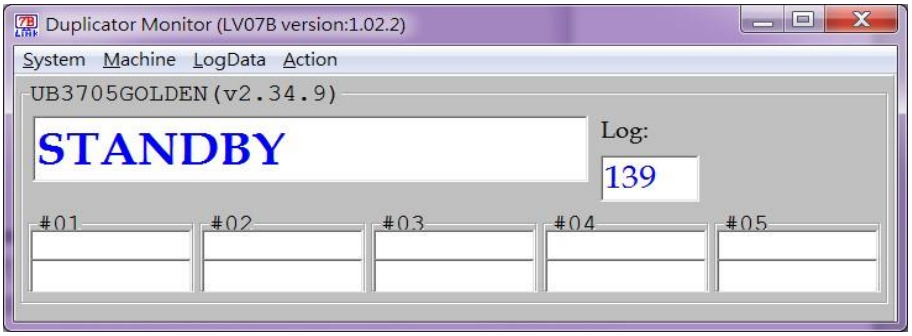
Step 2: Connect the USB cable from computer to the duplicator.

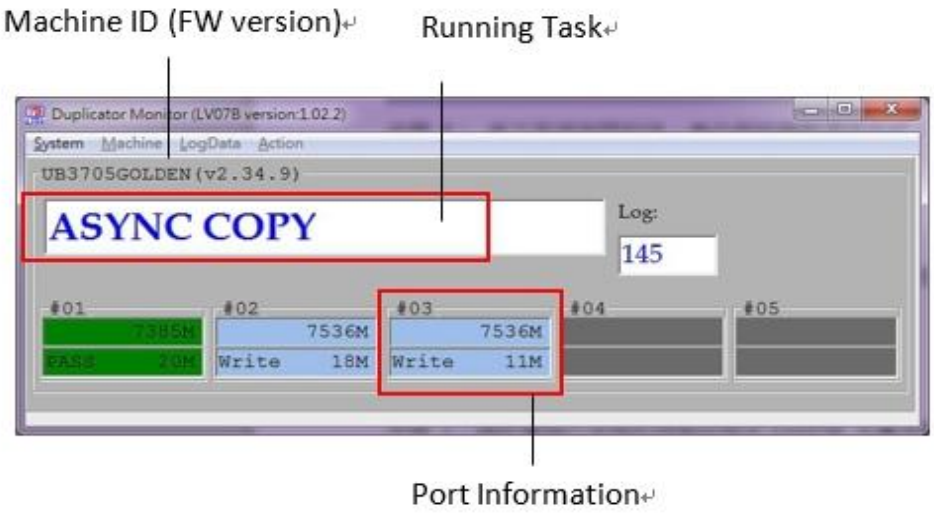
Step 3: Power On the duplicator.

Step 4: Launch LV07B by double clicking on software icon "LV07B ".

Caution	• Before Step 4, make sure the duplicator has completed boot-up. • There are configuration files when launching LV07B. Make sure you are launching the .exe file on the PC, and not with the provided mini-CD software.

Step 5: When the below screen is shown, the duplicator has linked to the computer successfully and is ready to use the real-time monitoring function.





Step 6: If the screen above does not appear, please repeat steps 1 thru 4.

Note	If the system requests “Run the program as an Administrator”, right click “LV07B”, then set it in “Properties” > “Compatibility”.

How to Use Event Log?

The log manager is an excellent management tool for operation control purposes. It can record duplication operation, system, and targets information details.

1. Out Today Report

Step 1: Insert flash media into Port 1.

Step 2: Go to "Out Today Report" and press "OK" to output today's log records.

Step 3: Remove flash media and read the log report on PC.

2. Out Recent Report

Step 1: Insert flash media into Port 1.

Step 2: Go to "Out Recent Report" and press "OK" to output the log records from the last 28 days.

Step 3: Remove flash media and read the log report on PC.

3. Out Period Date

Step 1: Insert flash media into Port 1.

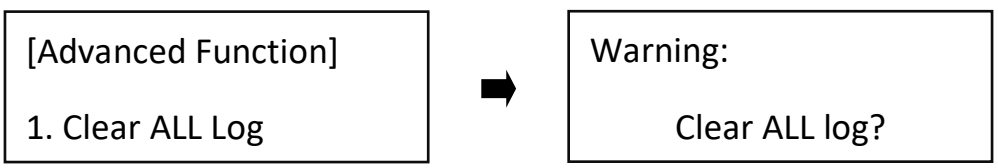
Step 2: Go to "Out Period Date" and press "OK" to output the log records from a specific date.

4. Advanced Function

Enter protective password to access advanced functions. The default password is "123456".

❶ Clear ALL Log

After entering the password, all the log records can be cleared from the duplicator.



Caution	Before using function "Clear ALL Log" during PC connection, please observe the following steps:

	1. Close the PC-Link software (LV07B) or 2. Disconnect the duplicator from PC *The PC-Link software (LV07B) is designed to continuously record log reports. If user executes “clear log records” on the duplicator while LV07 is still running, the conflict between LV07 and duplicator might lead a serious system error.

❷ Setup Password

Setting a password ensures the duplicator’s log records are protected.

Note	• During your first linkage, please wait for a few minutes on PC to complete create the log database from duplicator. • The log manager can store up to 60,000 records. If the storage limit is exceeded, the system will automatically remove the oldest record and replace it with the newest. • Changing the default password is highly advised as to ensure record protection. • If you want to change your Log password, please keep your password in a safe place in case you lose it. Please understand that the manufacturer does not provide password reset service due to the consideration of personal privacy.

⊙ Explanation of Log Report

```
Print Date: 2016-08-30 17:46:11

     Model: Platinum Fox 1-19
   F/W Ver: 2.35.9
Machine ID: 37050.00348.57982.27667.50208

start No. = 4145
  end No. = 4160
```

Machine Info.

No.	Date	Time	Port	Result	Function
0004145	2016-08-30	12:03:17	0002	PASS	COPY(DATA,1847.3MB)
0004146	2016-08-30	13:06:34	0002	PASS	FORMAT FAT32
0004147	2016-08-30	13:53:42	0002	PASS	FORMAT FAT32
0004148	2016-08-30	14:43:27	0003	PASS	Copy+Compare+WP(DATA,87.9MB)
0004149	2016-08-30	14:43:28	0002	PASS	Copy+Compare+WP(DATA,87.9MB)
0004150	2016-08-30	14:46:41	0002	PASS	FORMAT AUTO
0004151	2016-08-30	14:46:41	0003	PASS	FORMAT AUTO
0004152	2016-08-30	14:48:55	0003	PASS	Copy(DATA,87.9MB)
0004153	2016-08-30	14:48:55	0002	PASS	Copy(DATA,87.9MB)
0004154	2016-08-30	15:34:43	0002	PASS	COPY(CD:71.5MB,USB:19.5MB)
0004155	2016-08-30	15:34:43	0007	PASS	COPY(CD:71.5MB,USB:19.5MB)
0004156	2016-08-30	15:43:27	0002	PASS	COPY(CD:71.5MB,USB:20.3MB)
0004157	2016-08-30	15:43:28	0003	PASS	COPY(CD:71.5MB,USB:20.3MB)
0004158	2016-08-30	15:50:01	0002	PASS	COPY(CD:71.5MB,USB:20.3MB)

Execution Time	Capacity (Sectors)	VID	PID	[Serial No.]
07:27	7389.2MB(15133248)	13FEh	5527h	[070B4820F9A9F087]
00:07	7389.2MB(15133248)	13FEh	5527h	[070B4820F9A9F087]
00:08	7695.0MB(15759360)	0BDAh	0158h	[20060413092100000]
00:15	116.2GB(243723008)	13FEh	5700h	[000000000000]
00:16	57.9GB(121629568)	13FEh	5727h	[0700686E84806906]
00:06	57.9GB(121629568)	13FEh	5727h	[0700686E84806906]
00:06	116.2GB(243723008)	13FEh	5700h	[000000000000]
00:11	116.2GB(243723008)	13FEh	5700h	[000000000000]
00:11	57.9GB(121629568)	13FEh	5727h	[0700686E84806906]
00:38	57.9GB(121629568)	13FEh	5727h	[0700686E84806906] [Phison 2312]
00:39	116.2GB(243723008)	13FEh	5700h	[000000000000] [Phison 2312]
00:39	57.9GB(121629568)	13FEh	5727h	[0700686E84806906] [Phison 2312]
00:39	116.2GB(243723008)	13FEh	5700h	[000000000000] [Phison 2312]
00:22	57.9GB(121629568)	13FEh	5727h	[0700686E84806906] [Phison 2312]

⊙ Definition

Information	Item	Description
Log Output Information	Print Date	The output date of log report
	Model	The duplicator's model info.
	F/W Ver	The duplicator's firmware version
	Machine ID	The ID number of duplicator
	Start No	The beginning log record in the log report
	End No	The last log record in the log report
Operation Records	No.	The number of log record
	Date-Time	The time of each operation result
	Port	The specific interface of each operation
	Result	The final status of each operation
	Function	The function executed by user
	Run Time	The time of each operation process
Card Information	Target Information Capacity (Sector)	The capacity information of each target devices
	Model, Version, Serial No	The detailed information of flash devices
Functions	COPY	Synchronous Copy.
	Copy	Asynchronous Copy.
	COMPARE	Synchronous Compare.
	Compare	Asynchronous Compare.
	COPY+COMPARE	Synchronous Copy & Compare.
	Copy+Compare	Asynchronous Copy & Compare.
	H3 TEST	Executes H3 reading test.
	H5 TEST	Executes H5 reading & writing test.
	FORMAT AUTO	Formats the flash media automatically.
	FORMAT FAT16	Formats the flash media as FAT16.
	FORMAT FAT32	Formats the flash media as FAT32.
	CAPACITY CHECK	Capacity inspection of flash media.
	QUICK ERASE	Erases the flash media content.
	FULL ERASE	Completely erases flash data, including format and content.
	DoD ERASE	Erases flash three times, complying with USA Department of Defense (DoD) standard.
	Calc. CRC64 (USB/SD/MSD Only)	Calculates the CRC64 value of the source flash.

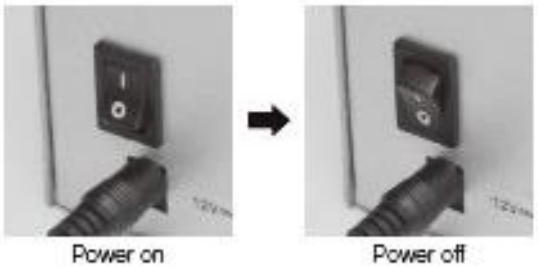
	A2 FAKE PICKER (USB/SD/MSD Only)	Checks if an SD/TF(MS) flash card contain fake capacity.
	BURN IN	Flash media durability test.
	(DATA,XXXXMB)	(Data Only Copy, Capacity of Data).
	(Whole,XXXXMB)	(Whole Media Copy, Capacity of Source Device).
	(10%) R:18.3M/S	(The percentage of inspection) Reading Speed.
	(15%) W:11.7M/S; R:21.7M/S	(The percentage of inspection) Writing Speed; Reading Speed

Maintenance Guide

Steps to replace socket

❶ Turn off power

Caution	For your safety, please turn off the power before inspecting or replacing the socket.



❷ Use your hand or a flat head screwdriver to remove the faceplate screws.

Caution	Please use extreme caution while using a screwdriver to remove the screws as they can cause the screwdriver to slip.

❸ Remove the socket cover.

❹ Replace the damaged socket(s).

❺ Replace the socket cover

**Specifications subject to change without notice.*