

User Manual

For USB Duplicator

V 1.1

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Chapter 1: Introduction & Manual Overview

This system is a reliable, high performance, high speed, standalone manual duplication system. With its professional industrial design and simple beginner user interface, it will make your duplicating experience easier than ever.

Before you start:

Before you start using this system, please read the following to ensure proper operation:

1. Temperature Warning:

If the system was stored in a location where the temperature dropped below 32°F (0°C) within the past 24 hours, please leave the system in a warm room with temperatures at least 65°F (19°C) for 4 hours prior to powering it on for the first time. Failure to do so may cause irreparable harm and prevent the system from functioning.

2. Maintenance:

It is very important to operate and keep the system in a dust free, clean environment since dust is the number 1 killer for electronic devices. Failure to do so may severely damage your system. We strongly suggest you place an Air Cleaner next to the system and constantly use the Air Duster (Can Air) to clear off any dust on the surface of the system.



Do not try to use the Air Duster to clean the system while the reader/writer trays are open. In doing so, you may inadvertently blow dust into the recording device and damage the recording device.

3. Proper Shutdown:

To avoid possible system failures, you need to shutdown the system properly. To shutdown the system, you need to press the Up or Down Arrow button to “Shutdown”, then press “ENT”/Enter and follow instructions on the screen to shutdown the system properly. Turning off your system without performing this function will increase the risk of damaging your system.

Package Accessory List:

- System Power Cord
- System Operation User Manual (This manual)

Chapter Overview:

Chapter 2: Getting to know your system

This chapter describes the physical features and instructions on how to operate your system

Chapter 3: Basic Operations Guide

This chapter describes how to perform basic operations like Making Copies, Changing Speed, etc.

Chapter 4: Menu Overview

This chapter describes what every function/setting does.

Appendix A: Troubleshooting

This section provides many solutions on frequently asked questions and provides insights on system error codes.

Appendix B: Safety & Regulatory information

This section provides environment, health, safety and other regulatory information.

Chapter 2: Getting to know your system

System Overview



The below image is one representation of the duplicator casing. Your case's outlook may vary but will have similar principles.

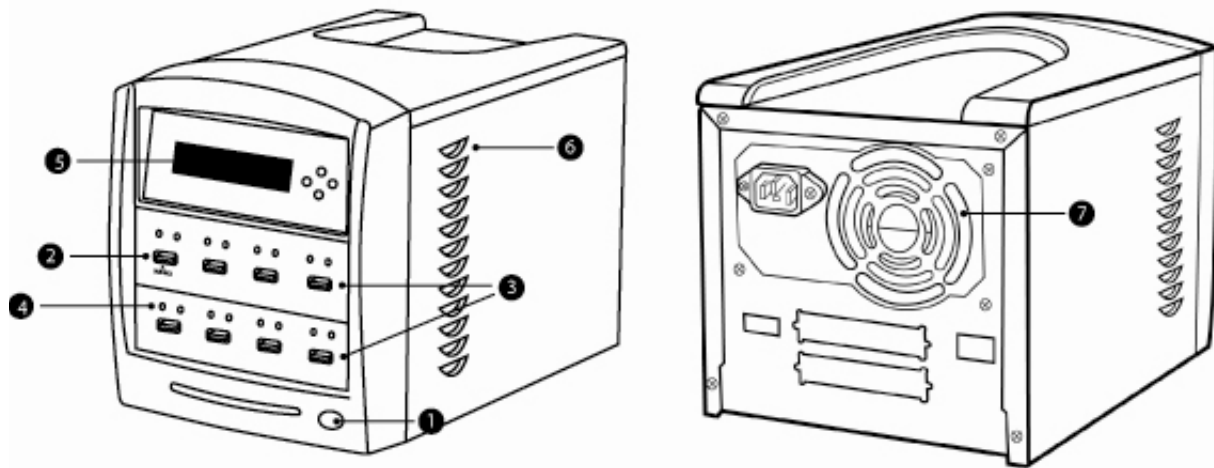


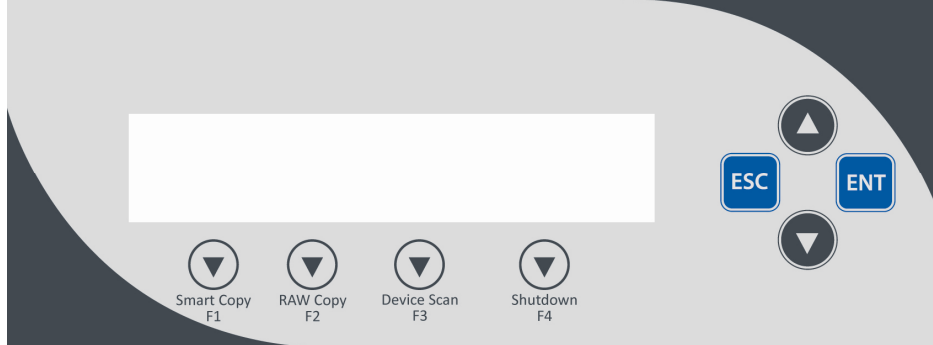
Figure 1-1 System Controls and Display

The components shown in Figure 1-1 are:

1. System Power On/Off Button
2. Source USB Port
3. Target USB Port
4. USB Port Status Indicator
5. LCD Display & Operation Panel
6. System Ventilation Vents
7. Power Supply Fan

LCD Display & Operation Panel

*The below image is for reference only. Actual image may differ.



	<ul style="list-style-type: none"> ➤ Up Arrow Button •Menu/Option Scroll Up
	<ul style="list-style-type: none"> ➤ Down Arrow Button •Menu/Option Scroll Down
	<ul style="list-style-type: none"> ➤ Enter/OK Button •Enter into the Menu •Execute the Function •Submit the Setting change
	<ul style="list-style-type: none"> ➤ Escape Button •Go back to the previous Menu •Abort the current Function. •Cancel the Setting change
F1	<ul style="list-style-type: none"> ➤ Smart Copy Button •Shortcut to make a copy under Smart mode
F2	<ul style="list-style-type: none"> ➤ RAW Copy Button •Shortcut to make a copy under RAW mode
F3	<ul style="list-style-type: none"> ➤ Device Scan Button •Shortcut to detect available devices
F4	<ul style="list-style-type: none"> ➤ Shutdown Button •Shortcut to perform Shutdown function of the system





USB Port Status Indicator

Every USB Port on your system comes with 2 colored LED lights which indicate the unit's current status. See the below reference chart to understand the LED status reading:

GREEN LED	RED LED	DESCRIPTION
Blinking	Off	USB Port is active in terms of reading/writing
On	Off	USB Storage Device is connected on this port
Off	Off	USB Storage Device is disconnected on this port.
Off	On	Error occurred during reading/writing

Menu Navigation

The functions and settings that operate this unit are organized in a menu tree structure. The user would need to use the 4 buttons on the controller interface panel in order to navigate through the menu chart and select any function or setting:

	Menu/Option Scroll Up
	Menu/Option Scroll Down
	Enter into the Menu Execute the Function Submit the Setting change
	Go back to the previous Menu Abort the current Function Cancel the Setting change

Example: Adjust the “Buzzer” setting in the “Setup” menu:

Step 1. Turn on the system by pressing the Power button. After it has booted up, you should see the main menu screen (root menu) on the right that signifies your system is ready.

DUPLICATOR	U.02
1.USB Copy	(Smart)

Step 2. Consecutively **press the UP or DOWN arrow button** until you see “6.Setup”.

DUPLICATOR	U.02
6.Setup	

Step 3. **Press the ENT/Enter button** once to enter into the Setup menu.

Setup
1.Language

Step 4. Consecutively **press the UP or DOWN arrow button** until you see “7.Buzzer”

Setup
7.Buzzer

Step 5. **Press the ENT/Enter button** once to enter into the Buzzer menu.

Buzzer:
On

Step 6. **Press the UP or DOWN arrow button** to change the option from “On” to “Off”

Buzzer:
Off

Step 7. **Press the ENT/Enter button** once to submit the setting change. You will then be guided back to the previous menu, “Setup”.

Setup
7.Buzzer

Step 8. **Press the ESC/Escape button** once to go back to the previous menu, main menu.

DUPLICATOR	U.02
6.Setup	

Chapter 3: Basic Operations

Making Copies of Your USB Storage Device

This process will copy the USB Storage Device which is inserted into the Source Port onto one or multiple target USB Storage Devices simultaneously.

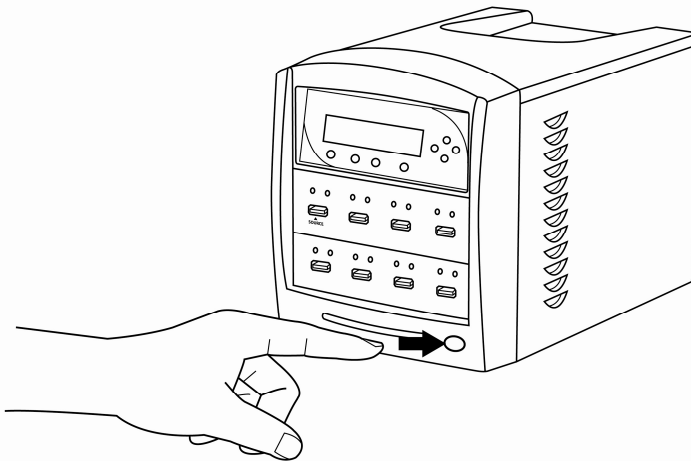
There are two ways to make copies of your USB Storage Device:

- Smart Copy: This is the recommended and fastest approach to making copies since it will scan your USB Storage Device and copy only the area which contains data.
- RAW Copy: This is the safest and slowest approach to making copies since it will copy your entire USB Storage Device bit by bit.

Note: Due to capacity variances among various brands of USB Storage Devices, you might want to enable the "Size Tolerance" setting under the "Setup" menu to avoid unnecessary errors. However, by doing this, there might be some data/empty spaces that will not be copied. Please use with caution.

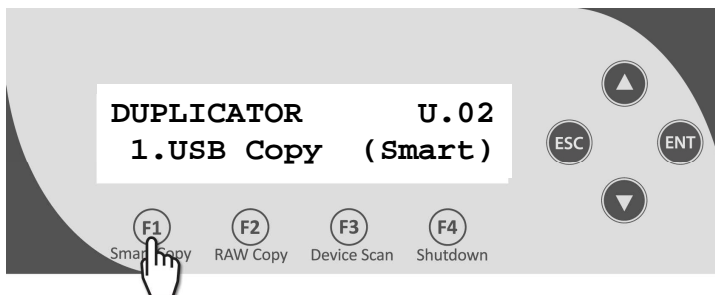
Tutorial guides below will demonstrate how to quickly copy your USB Storage Device.

Step 1.



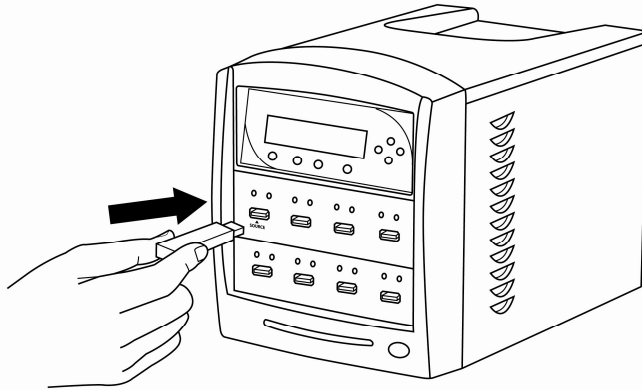
Power on the system by pressing the Power button.

Step 2.



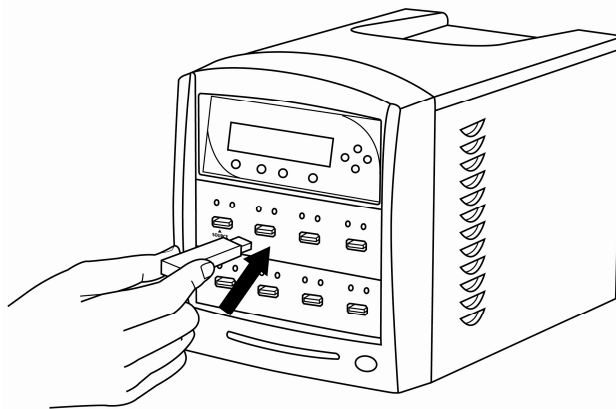
After it has booted up, you should see the screen on the left signifying that your system is ready. Press the "F1"/"Smart Copy" button to initiate the copying process.

Step 3.



Insert the original USB Storage Device you want to copy into the **Source Port**.

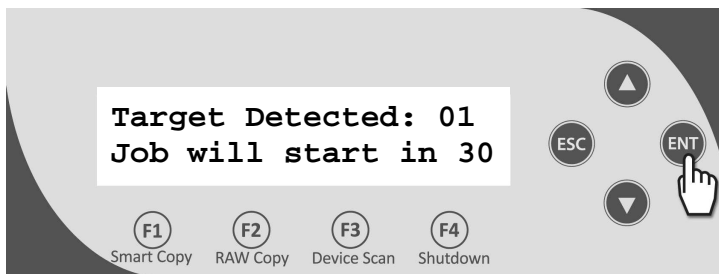
Step 4.



Insert the empty USB Storage Devices into the **Other non-Source** ports.

Note: If the USB Storage Devices you inserted contain data on them, all data on those USB Storage Devices will be erased permanently. Please insert with caution.

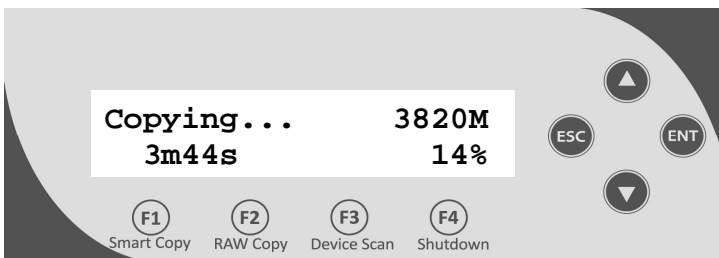
Step 5.



Once the system detects one or more empty USB Storage Devices, the system will countdown 30 seconds prior to executing the Copy process.



- Any new devices detected will reset the countdown period.
- If the system detects all the available USB ports have been occupied or the "ENT"/Enter button is pressed, then the system will execute the Copy process immediately.



System will now scan your original USB Storage Device and proceed to the Copy process immediately as shown on the screen on the left.



Below explains the various terms in the copy progress screen:

- 3820M, this indicates the amount of data to be copied.
- 3m44s, this indicates the time left for the copy operation.
- 14%, this indicates the progress of the copy operation.



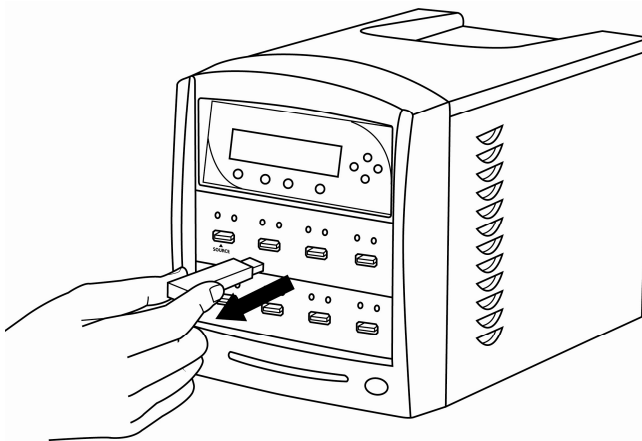
Upon completion, system will display the job report.



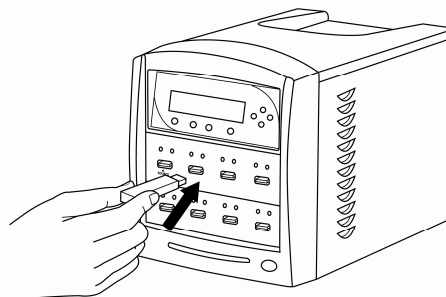
Below explains the various terms in the job report:

- OK:03, this indicates the number of copies passed in this process, which is 3 in this example.
- NG:00, this indicates the number of copies failed in this process, which is 0 in this example.
- Job:009, this indicates the number of copies in this entire job.

Step 6.



Now you can remove all the copied/failed USB Storage Devices and proceed to either:



Make more copies by connecting more USB Storage Devices, if so, go back to step 3.

OR



End the job and go back to the main menu by pressing the "ESC"/Escape button.

Chapter 4: Menu Overview

This system comes with many features that can be accessed/adjusted by various functions and settings within the operation menu. Please see the detailed descriptions below:

1. Copy

This function will guide you to copy the USB Storage Device that is connected to the Source Port onto one or multiple target USB Storage Devices simultaneously.

2. Compare

This function will guide you to perform a data comparison between the USB Storage Device that is connected into the Source Port and all other USB Storage Devices which are connected into the other USB ports simultaneously.

3. Copy+Compare

This function will guide you to perform the USB Copy process, after which, it will perform a USB Compare process automatically to ensure data accuracy.

4. Erase

This function will guide you on how to erase the USB Storage Device which can be connected into any port other than the Source Port. There are 4 options for this function:

- *Quick Erase: It will erase only the beginning section of the USB Storage Device, which is just enough to make it look empty. Then it will format the USB Storage Device using FAT32 File System.*
- *Full Erase: It will erase the entire USB Storage Device by writing 0's throughout. Then it will format the USB Storage Device using FAT32 File System. The erase timeframe varies depending on the data capacity of the USB Storage Device.*
- *RAW Erase: This function is identical to "Full Erase", except that it does NOT format the USB Storage Device.*
- *Secure Erase: It will erase the USB Storage Device thoroughly to avoid any possible chances of recovery.*

5. Copy Mode

This setting will allow you to choose which USB Copy Mode to use. There are 2 options for you:

- *Smart Copy: This is the recommended and fastest approach to making copies since it will scan your USB Storage Device and copy only the area which contains data.*
- *RAW Copy: This is the safest and slowest approach to making copies since it will copy your entire USB Storage Device bit by bit.*

6. Setup

1) Language

This setting will allow you to choose the display language of the system.

2) Read Error Skip*

This setting will allow you to change the number of times you want the system to skip ahead when the system encounters a reading error while reading your original USB Storage Device. By default, the system does not skip any reading error. Under this setting, if the system encounters any errors, it would result in an immediate job failure.

**This function will not fix any discovered error(s); it will merely skip it and copy the remaining data.*

3) Read Error Retry*

This setting will allow you to change the number of times the system will re-read the data that failed to be read during the initial copying process in an attempt to recover the damaged data. By default, the system will re-read 10 times.

**Please note that this setting applies to every reading error encountered by the system.*

4) Write Error Skip*

This setting will allow you to change the number of times the system will skip when the system encounters a writing error during the copying process. By default, the system does not skip any writing errors. Any writing errors would result in an immediate failure on this USB Storage Device.

**This function will not fix the error; it will only skip it to write the remaining data.*

5) Write Error Retry*

This setting will allow you to change the number of times the system will re-write the data that failed to write previously during the copying process. By default, the system does not perform any re-write.

**Please note that this setting applies to every writing error encountered by the system.*

6) Size Tolerance

Normally, the capacity of the empty USB Storage Devices is required to be greater than the original USB Storage Device so that all of the data can be copied without loss.

However, not all USB Storage Devices have identical storage capacity, even when they are all labeled identically in terms of GB size. Thus, by enabling the size tolerance, the system will allow the empty USB Storage Device's capacity to be less than the original USB Storage device by the percentage you specify.

7) Buzzer

This setting will allow you to choose whether you want to hear a beep sound when you press a button or when a task has been completed.

8) Screen Saver

This setting will allow you to choose whether you want to enable the Screen Saver feature or not. By enabling this feature, a screen saver will be displayed when your system has been idle for an extended period of time.

7. Utilities

1) Device Info

This function will show information regarding the USB Storage Device you've connected to the system.

2) Prescan

This function will scan your original USB Storage Device for readability.

3) System Info

This function will show the system's hardware & software information.

4) Load Default

This function will reset all of the options back to the manufacture's default settings. You can perform this function if your system is acting abnormal. You'll need to perform the "Shutdown" operation and restart the system in order for this to take effect.

5) Update Firmware

This function will update the software for your system. To update, you need to:

- a. Copy the manufacture certified update file onto a USB Storage Device via a PC/Mac.*
- b. Insert the USB Storage Device into the Source Port of the system.*
- c. Go to this function and execute it by pressing the "ENT"/Enter button.*
- d. Restart the system when asked to do so.*

We strongly suggest you do not upgrade your system's firmware unless your system is getting unstable and instructed to do so by a technician.

6) Save

This function will save all the settings you've modified since the last time the system was booted-up.

8. Manage Accounts

This menu will allow the Administrator to perform the following user administrative tasks. This feature is disabled by default. Prior to activating this feature, the duplicator recognizes all users as the only activated user defined as the administrator. The pre-defined password for this menu is "0000".

1) View User

This menu allows you to view current existing user accounts.

2) Create User

This menu allows you to create additional user accounts. Each user has their own settings. During this process, you will be prompted to enter a new user name (up to 8 alphanumeric letters or numbers) and user password (consists of a 4 digit number) for a new account.

3) Delete User

This menu allows you to delete the existing user account. During this process, you will be asked to select the existing account to be removed.

**User "Admin" is the administrative account; you can NOT delete this account.*

4) Password on Bootup

This menu allows you to enable/disable the user administrative feature prompt; user login upon boot up.

9. Shutdown

This function saves any system settings that you have modified since you powered on this system to make sure it is safe to turn off your system without any setting losses. Once you see the Ready to Power OFF message, then you can safely turn off the machine via the Power Switch. Turning off your system without performing this function will increase the risk of damaging your system.

Appendix A: Troubleshooting

Frequently Asked Questions

- 1. No display on the LCD or the unit does not operate when the power is on.**
 - ✓ Check the power cable connection and that the environment for the power outlet is normal.
 - ✓ Make sure the power voltage on the duplicator matches the voltage of your power outlet.
 - ✓ If the system was stored in a location where the temperature dropped below 32°F (0°C) within the past 24 hours, leave the system in a warm room with temperatures at least 65°F (19°C) for 4 hours prior to powering it on.

- 2. The system cannot recognize the original USB Storage Device.**
 - ✓ Check to make sure the original USB Storage Device is inserted into the Source Port.

- 3. Buttons do not function.**
 - ✓ The system could still be busy on a task. Give it sometime and press it again. If it still doesn't work, turn off the machine, and then restart the machine after a minute.

- 4. USB Copy process completed but the copied USB Storage Devices are not readable / executable?**
 - ✓ Use the "USB Compare" function to check that the copied USB Storage Device(s) are identical to the original USB Storage Device.
 - ✓ You may have turned on the Read Error Skip or Write Error Skip settings under the "Setup" menu. It is possible the skipped data (due to read/write error) are causing this issue.

- 5. The failure rate is high.**
 - ✓ Quality of your USB Storage Device may be poor.

- 6. Do I need to upgrade my system's firmware?**
 - ✓ Unless your system is getting unstable, we strongly suggest not upgrading your system's firmware. Please contact our Tech Support if your system is getting unstable.

- 7. Cannot boot-up or fails to upgrade firmware.**
 - ✓ Contact our Tech Support for assistance.

- 8. Some empty USB Storage Devices won't copy.**
 - ✓ Normally when you insert your USB Storage Device in the system, the green LED will lite up as an indicator the system recognizes the USB Device. If not, then the system did not detect your USB Storage Device, hence will not copy onto it. Also, please check the quality of your USB Storage Device.

Error Code

Typically the system will show an error message and error code if a problem occurs. Please reference the below diagram for a description of the error codes and the recommended solution:

Error Code	Error Message	Description & Recommended Solutions
202	No Targets!	<p><u>Description:</u> No USB Storage Devices are detected.</p> <p><u>Possible Solution:</u> Try to remove and re-connect the USB Storage Device onto the system. Please make sure the Green indicator is lit for the corresponding USB ports of the system.</p>
206	Targets & Master Size Mismatch!	<p><u>Description:</u> The content of your original USB Storage Device has bigger capacity than the USB Storage Device(s) you intend to copy onto.</p> <p><u>Possible Solution:</u></p> <ul style="list-style-type: none"> • If you are copying under “RAW” mode, it is common for that storage capacities varies among different brands of USB Storage Devices, you might want to enable the “Size Tolerance” setting under the “Setup” menu to avoid unnecessary errors. However, by doing this, there might be some data/empty spaces that will not be copied. Please use with caution. • If you are copying under “RAW” mode, you might want to try “Smart” mode since it copies only data area, nothing else. • If you are copying under “Smart” mode, it is possible that your data are heavily fragmented to prevent the efficient effect of “Smart” mode, please defragment your source USB Storage Device.
240	Wrong Password!	<p><u>Description:</u> The password entered is not correct</p> <p><u>Possible Solution:</u> Please confirm you typed in the correct password or try a different password.</p>
241	Login Failed	<p><u>Description:</u> An incorrect password was entered 3 times consecutively</p> <p><u>Possible Solution:</u> Wait for 5 minutes, then try to use the correct password for next the attempt. If the problem persists, call Tech Support.</p>

Error Code	Error Message	Description & Recommended Solutions
260	No Update File	<p><u>Description:</u> The system can NOT locate the Firmware Update File during the Update Firmware process.</p> <p><u>Possible Solution:</u></p> <ul style="list-style-type: none"> • Confirm the file is not a “zip” file. If it is, please extract it before you transfer it to a USB Storage Device.. • Confirm the file system of your USB Storage Device is FAT32. • Make sure there are no other discs in the system and try to insert the update disc into another tray to perform the operation.
261	Wrong update File	<p><u>Description:</u> The Firmware Update File is not compatible with your system or the Firmware Update File is corrupted.</p> <p><u>Possible Solution:</u> Try to re-download the Firmware Update File.</p>
262	Unknown flash model	<p><u>Description:</u> The Firmware Update File is not meant for your system.</p> <p><u>Possible Solution:</u> Try to contact Tech Support for the proper Update file.</p>

Appendix B: Safety & Regulatory information

Safety Introduction

Notices and Safety

Please read the following instructions carefully before operating the machine and refer to them as needed to ensure the continued safe operation of your machine.

This product and supplies have been designed and tested to meet strict safety requirements. These include safety agency evaluation and certification, and compliance with electromagnetic regulations and established environmental standards.

The safety and environment testing and performance of this product have been verified using certified materials only.



Unauthorized alterations, which may include the addition of new parts/devices, may impact the product certification. Please contact your sales representative for more information.

Marks, Labels

Symbols

All warnings and instructions marked on or supplied with the product should be followed.



This symbol alerts users to areas of the equipment where there is the possibility of personal injury.

FCC Notices for USA

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.

(Reference [CFR 47 Part 15 Section 15.21](#))

Changes or modifications to this equipment not specifically approved by the manufacture may void the user's authority to operate this equipment.

Safety Information

Operational Safety Information

This equipment and supplies have been designed and tested to meet strict safety requirements. These include safety agency examination, approval, and compliance with established environmental standards.

To ensure the continued safe operation of your equipment, follow these safety guidelines at all times:

Do These

- Always follow all warnings and instructions that are marked on or supplied with the equipment.
- Before cleaning this product, unplug the product from the electrical outlet. Always use materials specifically designated for this product, the use of other materials may result in poor performance and create a hazardous situation.
- Always exercise care when moving or relocating equipment.
- Always locate the machine on a solid support surface (not on plush carpet) that has adequate strength to support the weight of the machine.
- Always unplug this equipment from the electrical outlet before cleaning.



Do not use aerosol cleaners. Aerosol cleaners can be explosive or flammable when used on electromechanical equipment

Do Not Do These

- Never use a ground adapter plug to connect the equipment to a power outlet that lacks a ground connection terminal.
- Never attempt any maintenance function that is not specifically described in this documentation.
- Never obstruct ventilation openings. They are provided to prevent overheating.
- Never remove covers or guards that are fastened with screws. There are no operator serviceable areas within these covers.
- Never locate the machine near a radiator or any other heat source.
- Never push objects of any kind into the ventilation openings.
- Never place this equipment where people might step on or trip on the power cord.

Electrical Safety Information

1. The power receptacle for the machine must meet the requirements stated on the data plate on the rear of the machine. If you are not sure that your electrical supply meets the requirements, please consult your local power company or an electrician for advice.
2. The socket outlet shall be installed near the equipment and shall be easily accessible.
3. Use the power cable that is supplied with your machine. Do not use an extension cord or remove or modify the power cord plug.
4. Plug the power cable directly into a correctly grounded electrical outlet. If you are not sure whether or not an outlet is correctly grounded, consult an electrician.
5. Do not use an adapter to connect any equipment to an electrical outlet that lacks a ground connection terminal.
6. Do not place this equipment where people might step or trip on the power cable.
7. Do not place objects on the power cable.
8. Do not push objects into slots or openings on the machine. Electrical shock or fire may result.
9. Do not obstruct ventilation openings. These openings are used to provide proper cooling to the machine.

Electrical Supply

1. This product shall be operated from the type of electrical supply indicated on the product's data plate label. If you are not sure that your electrical supply meets the requirements, please consult a licensed electrician for advice.
2. Always connect equipment to a correctly grounded power outlet. If in doubt, have the outlet checked by a qualified electrician.



This equipment must be connected to a protective earth circuit. This equipment is supplied with a plug that has a protective earth pin. This plug will only fit into an earthed electrical outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact a licensed electrician to replace the outlet.

Disconnect Device

The power cable is the disconnect device for this equipment. It is attached to the back of the machine as a plug-in device. To remove all electrical power from the equipment, disconnect the power cable from the electrical outlet.

Emergency Power Off

If any of the following conditions occur, turn off the machine immediately and **disconnect the power cable(s) from the electrical outlet(s)**. Contact an authorized Service Representative to correct the problem:

- The equipment emits unusual odors or makes unusual noises.
- The power cable is damaged or frayed.
- A wall panel circuit breaker, fuse, or other safety device has been tripped.
- Liquid is spilled into the machine.
- The machine is exposed to water.
- Any part of the machine is damaged

Maintenance Information

1. Any operator product maintenance procedures will be described in the user documentation supplied with the product.
2. Do not carry out any maintenance on this product which is not described in the customer documentation
3. Use supplies and cleaning materials only as directed in the Operator section of this manual.
4. Do not remove covers or guards that are fastened with screws. There are no parts behind these covers that you can maintain or service.



Do not use aerosol cleaners. Aerosol cleaners can be explosive or flammable when used on electromechanical equipment.

Regulatory Information

Certifications in Europe: **CE Mark (European Union)**

The CE mark applied to this equipment symbolizes the manufacture's declaration of conformity with the following applicable Directives of the European Union as of the dates indicated:

2006/95/EC

December 12, 2006 Council Directive 2006/95/EC as amended. Approximation of the laws of the member states related to low voltage equipment.

2004/108/EC

December 15, 2004 Council Directive 2004/108/EC as amended. Approximation of the laws of the member states related to electromagnetic compatibility.

A full declaration of conformity, defining the relevant directives and referenced standards, can be obtained from your Authorized local dealer.



In order to allow this equipment to operate in proximity to Industrial Scientific and Medical (ISM) equipment, the external radiation from the ISM equipment may have to be limited or special mitigation measures taken.