

User Manual

For Econ A Series Duplicator

V 1.1A

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Chapter 1: Introduction & Manual Overview

This system is a reliable, high performance, high speed, standalone manual tower 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. Important Notice:

The type of system you purchase will determine the type of discs you are able to copy. For example, if you purchased a CD only system, then you will only be able to copy onto recordable CD formats. If you purchased a DVD system, then you can copy on to recordable DVD and CD formats. If you purchased a Blu-ray system, then you can copy onto recordable Blu-ray, DVD, and CD formats.

If you have a Blu-ray capable system, the terms CD or DVD can be substituted for Blu-ray within the text of this user manual.

2. System Limitations:

The system will not copy any CD, DVD, or Blu-ray discs that have Copy Protection encoded inside. Typically, the movies you purchase or rent from the store will contain copy protection.

In addition to the copy protection limitation, the system cannot copy across formats. This means that you cannot copy a DVD master onto a recordable CD or vice versa. In addition, you cannot copy the same formats if the discs have different maximum capacity limitations. This means that you cannot copy a single layer DVD or Blu-ray Disc onto a double/dual layer DVD or Blu-ray Disc or vice versa. The recordable blanks must be the same format and maximum capacity as the master disc you intend to duplicate.

3. 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.

4. External Connection Warning:

If you have an external connection installed in your system, (USB/Firewire sticker(s) should appear on your writer front drive panel(s) as an indicator). In order to operate the system solely as a standalone unit (no connection to the computer), you have to make sure all of the USB/Firewire connection(s) are off. If by any chance, the USB/Firewire connection(s) are on, please refer to "Appendix A: Optional External Device (USB 2.0/Firewire 1394) Setup Guide"

5. 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 optical recording 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.



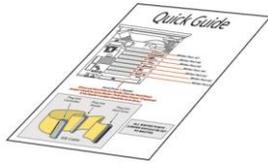
Warning

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.

6. 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 "15. 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 Contents:



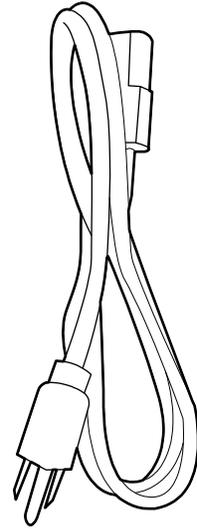
Quick Start Guide



OR



Standard Operation User Manual Booklet or CD



Power Cord Cable

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: Optional External Device (USB 2.0/Firewire 1394) Setup Guide

This section describes how to enable one of many writers of your system as an external writer for your PC via system's USB interface.

Appendix B: Troubleshooting

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

Appendix C: 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.

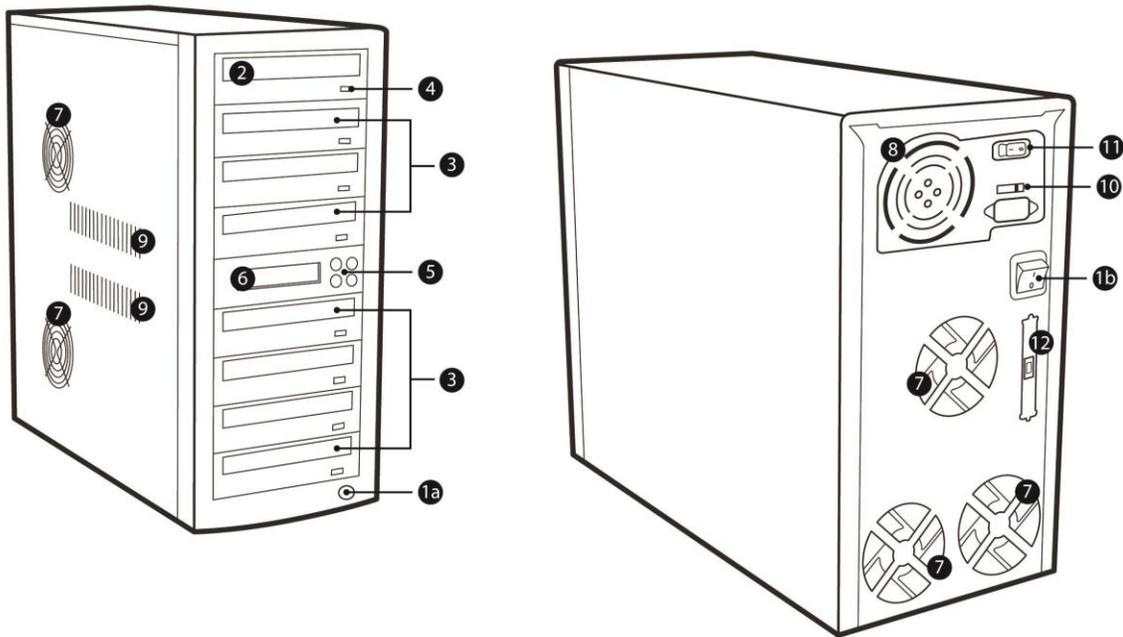


Figure 1-1 System Controls and Display

The components shown in Figure 1-1 are:

1. System Power On/Off Button (either 1a or 1b, locations varies by model)
2. Optical Disc Reader
(Referred to as "Reader" throughout this manual)
3. Optical Disc Writers
(Referred to as "Writer" throughout this manual)
4. Eject Button
5. Keypad
6. LCD Screen
7. Ventilation Fans
8. Power Supply Fan
9. System Ventilation Vents
10. Power Voltage Switch (110v/220v) (not available on all models)
11. Power Supply On/Off Switch (not available on all models)
12. External USB Connection (not available on all models)

LCD Front Panel

*The below images are for reference only. Your key assignment and appearance may differ.



	: Up (Menu/Option Scroll Up)
	: Down (Menu/Option Scroll Down)
	: Forward; Enter; OK; Execute the function
	: Backward; Escape; go back to the previous function

Chapter 3: Basic Operations

Make Copies from a Master Disc

This process will copy your master disc onto one or multiple blank discs simultaneously. However, due to its simultaneous nature, a good conditioned master disc and a lower recording speed is recommended for higher success rates and better quality duplications.

For a disc-to-disc copy, the copy source can be either of these devices:

- The reader: The reader normally is the 1st drive from the top of the system and is most often the source typically used when making disc-to-disc copies.
- Any of the writers: One of the writers can also be used as the copy source when making disc-to-disc copies. This option is typically only used when the reader is either bad or unable to read the master disc.

Section 1: Selecting the Copy Source.



Ignore this section and proceed to Section 2 if your system does NOT have a Hard Drive installed.

When you turn on your system, after it has booted up, all trays will be ejected and you should see the following signifying your system is ready.

```
1.Copy      1.03
HDD:  1 ODD:  8
```

Step 1: Use the up or down arrow button to navigate to the Select Source menu.

```
8.Select Source
```

Step 2: Press “ENT”/Enter button to enter the Image menu.

```
Src: DVD-ROM
01 CH01
```

Step 3: If you plan to use the Reader/Top Drive as the source, use the up or down button to locate the first non-HDD drive and press “ENT”/Enter button to select it.

```
DVD-ROM selected
```

Step 4: Press “ENT”/Enter button once again to go back to the main menu.

```
8.Select Source
```

Section 2: Making Copies from the Reader/Top Drive.

Step 1: Use the up or down arrow button to navigate to the Copy menu

1 . Copy

Step 2: Insert the Master Disc into the Reader/Top Drive.

1 . Copy
4357MB

Step 3: Insert the Blank Disc into the Writer(s)/Bottom Drive(s). The system will automatically detect and automatically duplicate them.

Copying- 8x 30%
1307.1MB 03:30

- 8x indicates the duplication speed.
- 30% indicates the current percentage of the duplication progress.
- 1307.1MB indicates the current amount of data that has been duplicated from the master disc.
- 03:30 indicates current elapsed time.



It is normal to see the progress indicator stay at 0-10% and 100% for approximately 30 seconds for CD duplication and up to 1 minute for DVD duplication. That is caused by the initializing and finalizing stages.

Step 4: Once the duplication job is completed, the successful copies will be ejected and you shall see the following screen.

OK:07
Time: 00:07:48

- "OK:07" indicates that you've just made 7 successful copies.
- "00:07:48" indicates the total duplication time.

Step 5: Remove the successful copies and refill the trays with additional blank media to continue making more copies. You can also press the "ESC"/Escape button to terminate your project and go back to the main menu.

1 . Copy



If you happen to have any failed discs (bad copy), the failed disc(s) will not be ejected automatically. You need to manually eject them and throw them away if they are write once recordable disc(s).

Making Copies from Hard Drive

(This function is not available if the duplicator does not have a hard drive installed.)

Copying from the hard drive is the best way to make copies. Overall, there are four benefits of copying from the hard drive.

- **Performance.** Copying from the hard drive will enable the writer drives to boost the copying performance to its limit.
- **Stability.** Copying from hard drive will stabilize the duplication process compared to disc-to-disc duplication.
- **Durability** – The hard drive is a more durable storage device than recordable discs. The recording surface of a recordable disc is exposed and can easily be scratched on its surface, while hard drives are covered with metal and mounted inside the system protecting it from incidental damage.
- **Convenience** – With your master disc(s) stored inside the hard drive, you can have access to each one easily. There is no need to carry your master discs every time you want to make a copy; they are all stored inside the system.



Throughout this manual, the term partition(s) is also used to refer to image files in the hard drive.

If your system has a Hard Drive installed, a partition/image will be created whenever you begin to load master disc content into the hard drive. The number of images the hard drive can hold is determined by the capacity of your hard drive and the size of every master disc image you transferred into the hard drive.



Hard Drive Manufacturers use conversion rate of 1GB = 1 Billion Bytes or 1000^3 Bytes. However, most Operating Systems, including our Duplication System use standard conversion rate of 1GB = 1.074 Billion Bytes or 1024^3 Bytes. Therefore, for an advertised 160GB Hard Drive (160 Billion Bytes), the true capacity base on our system's standard is actually 149GB.

The following steps will show you how to load your master disc into the installed hard drive as an image and copy the stored image onto blank discs.

Section 1: Loading Master Disc content into the Hard Drive as an image.

When you turn on your system, after it has booted up, you should see the following signifying your system is ready.

```
1.Copy      1.03
HDD:  1 ODD:  8
```

Step 5: Use the up or down arrow button to navigate to the Hard Drive Setup menu.

```
9. Image
```

Step 6: Press “ENT”/Enter button to enter the Image menu.

```
9-01. Image P: A
Load
```

- “P: A” indicates current selected image name

Step 7: Please place your master disc into the Reader/Top Drive and the loading progress screen will be displayed, as show below:

```
Load- A- 8x 15%
653.6MB  01:07
```

- “A” indicates the assigned image name.
- 15% indicates the current loading progress.
- 653.6MB indicates the current amount data has been loaded.
- 01:07 indicates the current elapsed time.

Step 8: Once the loading process is completed, you should see the following screen:

```
Image Load OK
```

Step 9: Press ESC button twice to go back to the main menu:

```
9. Image
```

Section 2: Selecting the Copy Source to the Hard Drive.

Step 1: Press “Source” button to enter the Select Source menu and you shall see a screen similar to below:

```
Src: DVD-ROM  
01 CH01
```

Step 2: Use the up or down button to locate the HDD and press “ENT”/Enter button to select it.

```
HDD is selected!
```

Step 3: Press “ENT”/Enter button once again to go back to the main menu.

```
8.Select Source
```

Section 3: Making Copies from an existing partition/image of the Hard Drive.

Step 1: Use the up or down arrow button to navigate to the Copy menu

```
1 . Copy      P : A
              4357MB
```

- P: A indicates the current selected Image name
- 4357MB indicates the master disc size for this image.

Step 2: Confirm the Image name on the screen and Insert the Blank Disc into the Writer(s)/Bottom Drive(s). The system will automatically detect and automatically duplicate them.

```
Copy- A- 8x 30%
1307.1MB 03:30
```

- A indicates the name of the source image name.
- 8x indicates the duplication speed.
- 30% indicates the current percentage of the duplication progress.
- 1307.1MB indicates the current amount of data that has been duplicated from the master disc.
- 03:30 indicates current elapsed time.



It is normal to see the progress indicator stay at 0-10% and 100% for approximately 30 seconds for CD duplication and up to 1 minute for DVD duplication. That is caused by the initializing and finalizing stages.

Step 3: Once the duplication job is completed, the successful copies will be ejected and you shall see the following screen.

```
OK:07      P : A
Time: 00:07:48
```

- A indicates the name of the source image name.
- “OK:07” indicates that you’ve just made 7 successful copies.
- “00:07:48” indicates the total duplication time.

Step 4: Remove the successful copies and refill the trays with additional blank media to continue making more copies. You can also press the “ESC”/Escape button to terminate your project and go back to the main menu.

```
1 . Copy
```



If you happen to have any failed discs (bad copy), the failed disc(s) will not be ejected automatically. You need to manually eject them and throw them away if they are write once recordable disc(s).

Chapter 4: Menu Overview

1. COPY

This menu will guide you to make CD/DVD/BD copies.

2. TEST

This menu will guide you to make a simulation of the copying process. During this simulation process, all write once recordable discs such as (DVD-R, CD-R) will be reusable. The purpose of performing such simulation is to ensure error free duplication.



Due to the physical limitation of DVD+R/RW & BD-R/RE recordable format, you can not perform this procedure on these formats. If you do so, you will encounter a failure messages.



If you are using CD-RW/DVD-RW discs as your blank media during the simulation, any content that may have been recorded inside those discs will be permanently erased.

3. TEST©

This menu will guide you to perform the simulation of copying process and if everything passes during the simulation, the real copying process will be performed. If there's an error encountered during the simulation, an error message will be displayed and the copying process will not be initiated.

4. VERIFY

This menu will guide you to perform a verification on the copied discs to ensure it is fully readable.

5. COMPARE

This menu will guide you to perform a bit-by-bit comparison between your master disc (or master disc image on the hard drive) and all the copied discs. The reason to perform this compare operation is to ensure all of your copies identically compare to the master disc.

6. PRESCAN

This menu will guide you to make copies, after which, it will perform an additional comparison process automatically to ensure data correctness.

7. DISC INFO

This menu will identify your blank recordable media's format, capacity, manufacture ID as well as the media's certified writing speed. Please note that limited information will be displayed for media in the Reader drive.

8. SELECT SOURCE

This menu will guide you to select a Reader/Writer drive, or a Hard Drive, as the source drive (where your master disc will be placed into) for Copy related operations.

9. IMAGE

9.1 Load

This function will guide you to load your master disc content into the hard drive as a partition/image.

9.2 Delete Image

This function will guide you to delete or remove the pre-selected partition/image in the hard drive.

9.3 Image Info

This function will display additional information of the pre-selected partitions/images in the hard drive. Such information includes partition/image disc type, capacity, etc.

9.4 Compare Image

This function will verify the pre-selected partition/image in the hard drive with the master disc at the source drive.

9.5 Select Image

This function will guide you to choose/select a partition/image for all Hard Drive related operations, including Copy.

9.6 Image Scr Drive

This function will guide you to select a drive as the source drive (where your master disc will be placed into) for partition/image loading/creating related operations.

9.7 ImageFormat Info

This function will show how the Hard Drive (image) is formatted.

9.8 Edit

This function is to edit selected image's title, sub1 title and sub2 title.

9.9 Format HDD

This function will guide you to re-format the entire hard drive of the system. During the formatting process, all of your hard drive contents will be permanently lost. Please use this function with caution.

9.10 LoadImage Method

This function is to change the way to save Image. There are 2 formats for choice: Auto and Manual. Auto means system auto assign partition for loaded image. Manual let you to choose which partition to load image to.

10. EDIT TRACK

This menu is exclusively designed for editing a collection of favorite songs from CDs. In other words, you can collect songs on a number of CDs and merge them into a single CD.

10.1 CD to CD Edit

This function will guide you to select songs from source CD, and then burn into a blank CD-R/RWs.

10.2 CD to HDD Edit

This function will guide you to select tracks from single or multi-audio CD and create image to specific partition of HDD.

10.3 Close Session

This function will guide you to close the session of edited disc for best playback compatibility.

11. CPI Copy

This menu will guide you to make CopyLock protected DVD Video copies from a CopyLock Copy Protected Image (CPI) Master disc. For more information, please refer to CopyLock Quick Guide for CopyLock Supported Duplicators.

12. SETUP

12.1 Language

This setting will allow you to choose which language you prefer be used to navigate the controller function of this system.

12.2 Burn Speed

This setting will allow you to choose the burning speed of various formats.

12.3 Read Speed

This setting will allow you to choose the reading speed of various formats.

12.4 Auto Start Drive

This setting allows you to choose when the system will automatically start the job.

12.5 Startup Menu

This setting will allow you to choose which menu should be seen first upon system is boot up.

12.6 Auto Verify

This setting will allow you to perform Verify function after Copy function is completed.

12.7 Auto Compare

This setting will allow you to perform Compare function after Copy function is completed.

12.8 Auto Prescan

This setting will allow you to perform Prescan function before Copy function is completed.

12.9 Eject Discs

This setting will allow you to choose the tray ejection behavior after the copy process.

12.10 Burn On the Fly

This setting will allow you to enable/disable the On the Fly burning mode.

- 12.11 Burn Mode**
This setting will allow you to choose DAO or TAO burning mode.
- 12.12 Display Time**
This setting will allow you to display timer during the copy process.
- 12.13 Button Sound**
This setting will allow you to choose whether you want to hear a beep when you press a button or when a task has been completed.
- 12.14 Device Info**
This setting will display information on all devices detected by the system.
- 12.15 System Info**
This setting will display information about the system.
- 12.16 Quick Erase**
This setting will quickly erase the data on the rewritable disc.
- 12.17 Full Erase**
This setting will completely erase the data on the rewritable disc.
- 12.18 Auto Close Tray**
This setting will allow system to automatically close the tray after an idle period.
- 12.19 Quick Compare**
This setting will allow system to stop the compare process once the selected bytes of error are reached.
- 12.20 Tray-In/Out**
This setting will allow system to close the tray in separate phases, instead of all in/out at same time.
- 12.21 BootTime Delay**
This setting will allow system to delay the device scanning stage during boot up process.
- 12.22 Start Tray Eject**
This setting will allow system to eject all trays upon system boot up.
- 12.23 Disc Redetect**
This setting will allow system to detect the media once again if any detection error occurred.
- 12.24 Show Burn Speed**
This setting will allow system to display the copying speed in real time during the copy process.

Appendix B: 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 can not recognize the master disc.**
 - ✓ Check the format of the master disc or the master itself for damage.
 - ✓ Your master disc may be copy protected. Normally, most of the DVD/Blu-ray Disc and some of the CD you have purchase from stores have copy protected encoded in them.
 - ✓ Use one of the Writers to read your master disc by selecting one of writers as the Copy source. If it works, make a copy of your master disc and treat the copy as the new master. Then set the Copy source back to the Reader and try again.

- 3. Buttons do not function.**
 - ✓ Maybe it is still 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. Copy completed but the copies are not readable / executable?**
 - ✓ Use "compare" feature to check the copied disc.
 - ✓ Based on our experience, the quality of your media plays a big role on this part. Try to use high quality media to prevent such problems.
 - ✓ Please use another BD/DVD/CD player/ROM to test the copied media. Sometimes, your BD/DVD/CD Player/ROM may not be compatible with recordable BD/DVD/CD disc.

- 5. The failure rate is high.**
 - ✓ Lower the "Burn Speed" and try again.
 - ✓ Quality of blank disc may be poor.
 - ✓ Quality of your master disc 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.

- 8. Can I load data directly from my computer to my system's Hard Drive?**
 - ✓ No, your system's Hard Drive has a unique file system that computers will not recognize. Thus, you can't perform any read/write operations to the Hard Drive from your computer.

9. Why some writers won't copy?

- ✓ Reset back to default. (Troubleshoot #10)
- ✓ Contact our tech support.

10. How do I reset my system back to default?

a) Press & Hold "ESC" button for 3 seconds. You shall see menu 12 Adv Setup.

12-01.Adv Setup UnderRun Protect

b) Press down button until you see "Load Default" (12-10) on the 2nd line

12-10.Adv Setup Load Default

c) Press "ENT"/Enter button.

Load Default Config? Yes

d) Press "ENT"/Enter button again.

Load Default OK!

e) Press "ESC"/Escape button.

12-10.Adv Setup Load Default

f) Power off the system and power it back on. All settings should be restored back to default.

Appendix C: 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.

Certification

This product is certified by the following Agency using the Safety standards listed

Agency	Standard
Underwriters Laboratories Inc.	UL60950-1
Underwriters Laboratories Inc.	CSA C22.2 No. 60950-1-03
SPORTON International Inc.	EN 55022:1998/A1:2000/A2:2003 Class B, EN 61000-3-3:1995/A1:2001, EN 55024:1998/A1:2001/A2:2003

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.