



Summit Series DVD/CD Disc Duplicator



(1 to 11 Targets)

Users Guide

(Rev 1.4)

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Chapter 1. Quick Start Guide

Step 1: Plug in power cord to back of the unit.



Step 2: Turn on power button and wait for LCD to read "Copy mode".



Step 3: Eject reader tray (top drive) and insert source disc. Close reader tray.



Step 4: Eject writer trays and insert the blank discs. Close writer trays.

Copy process will start automatically if all writer trays are loaded. Push GO button to begin if you don't have all writer trays loaded.

Chapter 2. Product Introduction

Thank you...

...for choosing the **Summit** duplication system. These duplicators continue to be second to none in terms of speed and accuracy and we hope it will be a valuable addition to your organization, business or home for years to come.

The **Summit Duplicator** is a stand-alone duplicator that requires no computer connection to operate. Low cost and high performance, it will fulfill all your duplication requirements.

Specifically designed for duplicating DVD's and CD's, the **Summit Duplicator** features a duplication controller with a large LCD display and simple 2 button navigation, which make it very easy to follow the steps required to copy discs. Should you encounter any difficulty, please refer to the "Troubleshooting" section or contact Technical Support for assistance.

We strongly suggest you locate your **Summit Duplicator** in a dust free environment. Dirty discs may cause duplication rejects or even total failure. Please do not place unnecessary items on the Duplicator.

For recordable media selection, we recommend you choose high-speed rated and certified brand name discs (i.e. Taiyo Yuden, SKC, etc.) and make sure to reserve some discs for possible troubleshooting issues in the future. Under no circumstance does **Summation Technology** encourage users to duplicate copyrighted or copy-protected materials.

Supported Formats: DVD-R/RW/RAM/DL, DVD+R/RW/DL, CD-R/RW

Supported Burning Speed: DVD up to 22X, CD up to 48X

Approximate Duplicating Time: 2 hour DVD - 10 min, 70 min CD - 3 min

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We Are a U.S. Based Company

Chapter 3. Safety Information and Set up

Please be aware of the following installation and operation precautions.

1. **Read these instructions - All the safety and operating instructions should be read before use of this system.**
2. **Keep these instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed all warnings** - All warnings on the system and in the operating instructions should be adhered to.
4. **Follow all instructions** - All operating and use instructions should be followed.
5. **Do not use this system near water** - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
6. **Clean only with a damp cloth.** This system should be cleaned only as recommended by the manufacturer.
7. **Install in accordance with the manufacturers instructions. Do not block any of the ventilation openings.** For example, the system should not be situated on a bed, sofa, rug, or similar surface or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
8. **Do not install near any heat sources** such as radiators, heat registers, stoves, or other products that produce heat.
9. **Do not defeat the safety purpose** of the grounding-type plug. A grounding type plug has two blades and a third grounding prong. The third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. **Protect the power cord** from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the system.
11. **Only use attachments/accessories** specified by the manufacturer.
12. **Use only with a cart, stand, bracket, or table** specified by the manufacturer, or sold with the system. When a cart is used, use caution when moving the cart/system combination to avoid injury from tip-over.
13. **Unplug this system** during lightning storms or when unused for long periods of time.
14. **Refer all servicing** to qualified service personnel. Servicing is required when the system has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled on, been exposed to moisture or extreme heat, does not operate normally, or has been dropped.



Unpacking and Inspection

When unpacking your unit, inspect the carton and packaging material for damage. Damages that may have occurred during shipping could cause alignment and operation errors. Any damages found upon receipt of your unit should be immediately reported to the dealer you purchased it from.

Important! *Keep your packaging!* In the event you need to ship the unit back to the factory for repair, the product must be shipped in the manner in which it was received. Other containers are *not* satisfactory and will void your warranty! If the container is lost or destroyed, another may be purchased from your reseller.

Choosing a Location

Placing your unit in an unsuitable location can cause a number of problems. Many problems can be avoided by following these guidelines.

- The unit must be placed on a flat, level surface. A tilt to the unit's base can cause errors in calibration during use. The surface must also be relatively stable and resistant to bumps and jarring.
- The surface the unit is placed on must be able to hold 55+ pounds and be resistant to bowing under such weight.
- Place the unit in a location with adequate air circulation. Closets or cabinets are not suitable as heat build-up can cause the unit to malfunction. Likewise, do not place the unit on or near any heat sources such as heating vents or server racks.
- The unit must *not* be placed in an area with direct sunlight, excessive dust, mechanical vibration or shock.

Chapter 4. System Overview

System Overview



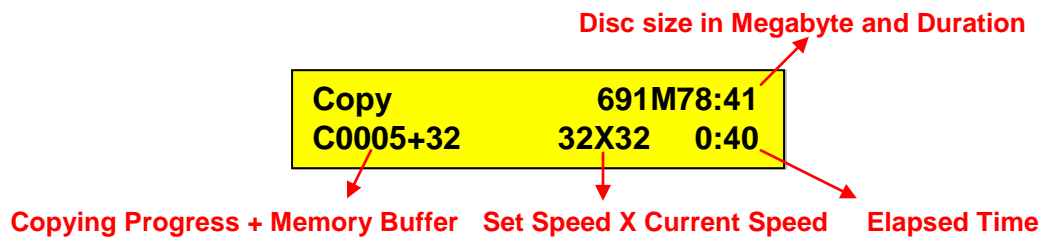
Control Panel Overview

Control buttons:

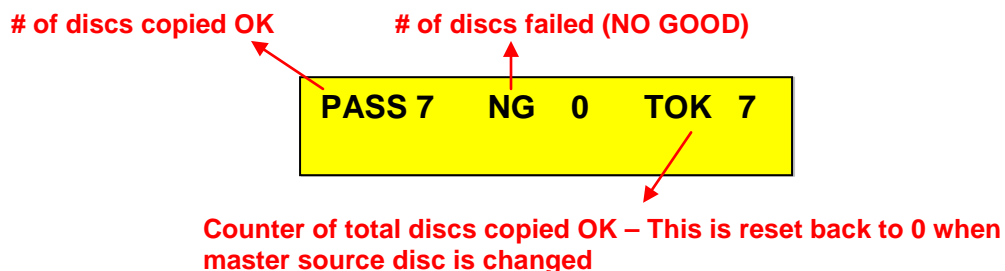
Mode : to browse or navigate different menu options

Go : to execute or select the menu options

LCD Information during Copying process:



LCD Information after Copying process:

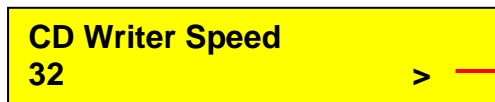


Chapter 5. Menu Overview

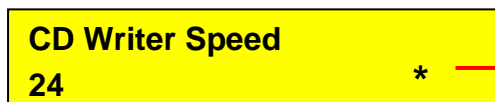
Overview of Menu Items:

<u>Main Menu</u> (MODE: next, GO: enter) (Press and hold MODE for 5 seconds to enter Sub-Menu)	<u>Sub-Menu</u> (MODE: next, GO: enter) (Press and hold MODE for 5 seconds to go back to Main Menu)	<u>Set up Options</u> See instructions below (Press GO to enter Setup Options)
<ul style="list-style-type: none"> A. Copy B. Copy+Comp C. Emulate D. Emu+Copy E. Load F. Compare G. Quick Erase H. Verity I. Play J. External K. Sub menu 	<ul style="list-style-type: none"> 1. Setup 2. Edit 3. Clear 4. Disc Info 5. Show Drive 6. Burn in 7. Update writer 8. Update 9. Main menu 	<ul style="list-style-type: none"> 1.1 Write Method 1.2 CD Write Speed 1.3 DVD Write Speed 1.4 CDRom Drive 1.5 CopyComp Eject 1.6 GO load trays 1.7 Turbo copycomp 1.8 Eject Disc 1.9 Load Nonblank Disc 1.10 Read CDDA Index0 1.11 CD+G 1.12 Mode 2 Compare 1.13 Autoloader 1.14 Start Writers 1.15 Skip Read Error 1.16 Buzzer Mute 1.17 Transfer Mode 1.18 Model and Version 1.19 Change Password 1.20 Language 1.21 Startup Command 1.22 Save Setup

How to navigate and change value under Setup Options:



Navigate Mode: Press Mode to move to next option. Press Go to change to Selection Mode.



Selection Mode: Press Mode to change value and Go to select

**** Make sure to press GO under Save Setup to save the changes.**

5.1 Main Menu:

A. Copy: This is the primary function of the duplicator. When set to Copy, the duplicator will transfer the contents of a master disc to the blank disc or discs.

B. Copy+Comp: Like the “Copy” function, but followed by the Compare function (see “Compare”).

C. Emulate: Like the “Copy” function, but nothing is actually written to the blank discs. It is used for testing Master disc readability and hardware. Emulate function does not work with DVD+R disc.

D. Emu+Copy: After emulation is completed and successful, the duplicator will begin writing the actual data to the discs.

E. Load: Not applicable for this model.

F. Compare: This function will compare bit-for-bit the source disc and destination discs and will report an error if the two sets of discs do not match. This function does not work with Audio or Video CDs (VCD). Audio or Video CDs will instead be verified (see “Verify”).

G. Quick Erase: Allows data on CD-RW/DVD-RW to be erased.

H. Verify: Verification compares the structure of the discs in any drive against the industry standard. This function is good for verifying that your source disc is a suitable Master and can be read in most standard devices.

I. Play: Not Applicable for this model.

J. External: The External function is not used.

K. Sub menu: To enter Sub menu items.

5.2 Sub-Menu:

Holding down the MODE button for 5 seconds while in the Primary Menu will bring up the Sub Menu. Press the MODE button to cycle through the options and press GO button to select.

- 1. Setup:** Different settings to control the duplicator's operation. See Setup Options for details.
- 2. Edit:** see 5.4 Making a Composite CD section for details.
- 3. Clear:** Pressing GO will delete the contents of the currently selected partition.
- 4. Disc Info:** Displays information from the media discs that are loaded to the writers, such as max write speed, capacity, etc.
- 5. Show Drives:** The LCD will display all devices connected with the duplicator, i.e. CD-ROM / DVD-ROM, CD-writer / DVD-writer, and hard drive. Press the MODE button to scroll through the devices. Press GO to exit.
- 6. Burn In:** This function allows you to test if the duplicator is working properly. Please make sure a master disc is placed into the CD-ROM / DVD-ROM first. DVD+R disc is not available under this function.
- 7. Update Writer:** Not applicable for this model.
- 8. Update:** Under no circumstances should you attempt to update the firmware without permission from the manufacturer or with firmware that is not specific firmware provided by the manufacturer.

Load the disc containing the latest firmware data into a CD-ROM/DVD-ROM drive and the duplicator should find the data and update its firmware automatically. During updating, don't turn off the power of machine until the update is complete. Turning off the machine during an update may cause severe damage!

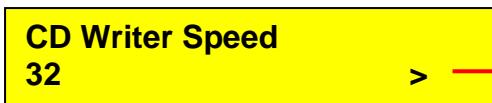
- 9. Main menu:** Go back to the Main menu items.

5.3 Setup Options:

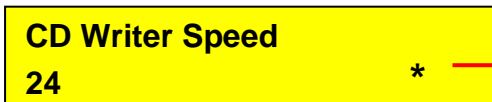
Holding down the MODE button for about 5 seconds then releasing, will bring up the Sub Menu. Press the GO button once to activate the Setup Options. We suggest you use the default settings during the whole process and not to make any changes unless you are familiar with these functions.

* To reset factory defaults on your unit simply power the unit down. Press and hold the "Mode" button for 15 seconds while the unit is powering up. You will see the display go through a series of tests and boot to the "Copy" mode screen.

How to navigate and change value under Setup Options:



Navigate Mode: Press Mode to move to next option. Press Go to change to Selection Mode.



Selection Mode: Press Mode to change value and Go to select

**** Make sure to press GO under Save Setup to save the changes.**

1.1 Write Method

Choose Disc-At-Once or Track-At-Once. Track-At-Once is normally used only when mixing multiple tracks via the controller. We recommend leaving this at Disc-At-Once.

Default: Disc at Once

1.2 CD Write Speed

This setting controls the disc to disc writing speed for CD. Lowering the speed will ease duplication of troublesome masters. You may also lower the speed to allow use of older or slower-rated recordable media.

Default: 32X

1.3 DVD Write Speed

This setting controls the disc to disc writing speed for DVD. Lowering the speed will ease duplication of troublesome masters. You may also lower the speed to allow use of older or slower-rated recordable media.

Default: 4X

1.4 CD-ROM Drive

Allows the selection of the reader drive for disc to disc copy. User may choose any drive (ATA#1, #2, #3.....) as the source drive. Default setting is Auto which selects the lower drive# as the source drive.

Default: Auto (top drive)

1.5 Copy Comp Eject

This setting controls the ejection of writer's tray under the "Copy + Compare" function. This should remain set to "Auto" for the Copy + Compare feature to function correctly.

Default: Auto

1.6 Go load trays

This function will allow the opened trays to be closed automatically by pressing the "GO" button

Default: No

1.7 Turbo copycomp

For achieving maximum burning speed allowed by writers.

Default: Yes

1.8 Eject Disc

This setting controls the ejection of discs by writer. Three options are available: "Always" means the writers will always eject the discs no matter whether the operation is successful or failed. "No" means all discs will remain in writers when copying is done and you will have to eject discs from the writers manually. "Pass" setting will only eject the passed discs automatically and leave the failed ones in the writers.

Default: Pass

1.9 Load Nonblank Disc

For unit with Autoloader installed. This should remain set to "NO" at all time.

Default: No

1.10 Read CD-DA Index 0

The setting controls the copying of data in Index 0 of Audio discs. Set to "Yes", the duplicator will copy the data, set to "No" will leave it empty. On Audio discs, Index 0 is sometimes used for album and artist info and track names.

Default: No

1.11 CD+G

Changing this setting to "Yes" will allow the duplicator to duplicate CD+Graphic (or "Karaoke") discs if the installed writers support it.

Default: No

1.12 Mode 2 Compare

This setting allows the unit to more accurately compare Mode-2 formatted discs.

Default: Yes

1.13 Autoloader

For unit with Autoloader installed. This should remain set to "NO" at all time.

Default: No

1.14 Start Writers

This controls the number of writers that will be copying. This should normally equal the number of writers installed. However, if you wish to only use 2 out of 4 writers for example, then you can select 2 here the remaining 2 will be ignored during duplication.

Default: Number of CD/DVD writers installed in the unit.

1.15 Skip Read Error

This setting controls error skipping when reading in a master disc. If the setting is "No", when an error is detected during loading, the duplicator will stop loading and display a read-error message. If the setting is "Yes", there will be no message shown even there is an error in reading. You can use this function to copy discs with errors or non-standard track configuration.

Default: No

1.16 Buzzer Mute

This turns on or off the buzzer tone in the duplicator.

Default: No

1.17 Transfer Mode

This option will increase performance and stability of copying function. Do not use this function unless all drives, including reader and HDD, support UDMA66 transfer mode.

Default: UDMA33

1.18 Model Number and Version

Displays model number and firmware version.

1.19 Change Password

This function is to set up password protection. Once set, a 4-digit password will be required after powering up.

Default: No password

1.20 Language

Allows user to choose language displayed on menu function. Options are English, Spanish or Portuguese.

Default: English

1.21 Startup Command

This setting allows the user to pick which command will appear after booting up.

Default: Copy

1.22 Save Setup

This setting allows the user to save the changes made under Setup Options and exit back to Setup menu.

5.4 Making a Compilation CD

This procedure explains how to:

- Identify and copy selected tracks from multiple CDs directly into one blank CD.
 - This function only works for Music CD with tracks.
1. Turn on the system. Note the mode of operation in the LCD display area (*copy, load, emulate, etc.*). Your LCD display should look something like this:

```
Copy
<mode
```

2. Press and hold the Mode button until you hear the system “chirp.” Then release the Mode button. You should see *setup* displayed in the LCD panel:

```
Setup
<mode                               Go>
```

3. Press the Mode button once to enter the Edit mode.

```
Edit
<mode                               1start>
```

4. Place the master CD that contains the first track(s) you wish to copy in the top drive. Close the drive tray. Load the blank CD into the writer tray. Press Go and the system automatically starts analyzing the contents of the master CD and displays the prompt, *begin track*:

```
Begin Track
[+]          0          [Q]
```

5. Press the **Mode** button until the number of the first track you wish to copy appears. For example, if you want to load track number 9 as the first track in your compilation of tracks, press the **Mode** button nine times to display the number 9. For example:

```
Begin Track
[+]          9          [Q]
```

6. Press the Go button to indicate that you want the copy process to start at the beginning of track number 9.
7. When end track is displayed in the LCD panel, press the **Go** button again to indicate where you want the last track to end. For example, if you want to copy from tracks 9 to 13, then End Track should be set at 13.

End Track	13	[Q]
[+]		

8. If you have more tracks from this CD, repeat the same procedure. Otherwise select Track 0 and the system will ask you if you want to finalize the CD. If you have more tracks from another CD to be copied, select No.
9. Press the Go button. The system will begin to copy the selected tracks to the blank CD.

Edit	38M04:13
C00039+00 32X32	1:26

10. Place another master CD into the first CD drive. Wait until the system analyzes it and displays the first of the edit prompts:

Begin Track	04:13
[+]	0 [Q]

Note that the number of minutes that have been copied to the new disc is displayed in the top right corner of the LCD display. This number of minutes will help you decide how many tracks you can still copy. The maximum is 80 minutes.

11. Repeat the same procedures to copy more tracks to the CD.
12. If you have no more tracks to be copied, remember to select Track 0 and Yes to Finalize the disc. This will close the current Disc and no more track can be added. **The copied CD cannot be used or played if not finalized.**
13. Press the Go button again to copy the selected tracks.
When the tracks have successfully copied, the master CD is automatically ejected, and "pass" is displayed.

Chapter 6. Troubleshooting & FAQ

There are no end-user serviceable components that can be replaced in the CD/DVD Duplicator. Please contact your dealer for warranty repairs and service.

No LCD display.

- Please check if the power cord is connected properly and the push button is pushed in all the way.

Error message shown on LCD.

- Blank Disc Not Enough – your master disc contains a larger capacity than your blank disc. Use the blank disc that has larger capacity. (e.g. double layer 8G DVD Disc)
- Blank Disc is not blank – try another blank disc.

CD Drive doesn't read disc and shows error message.

- Check the format of master disc.
- Use other Master disc or other duplicator/computer to test master.

Switches do not function.

- Task busy. Please wait.
- Restart unit.
- Faulty controller board. Call for Technical support

Copy completed but disc is not readable / playable or has skipping sound

- try to burn the disc again with a lower burn speed (4X for DVD and 12X for CD)
- make sure you use original disc as master, not a copy or copy's copy
- clean the master disc and try again
- try to re-create your master disc with lower burn speed
- try a different brand of blank discs.

Failure rate is high.

- Use original source CD and not a Copy or Copy's Copy
- Lower writing speed and try again.
- Quality of blank disc is poor. Try another brand.
- Quality of master disc is poor. Try clean the disc.
- Rated speed of discs does not match writers. Ensure discs meet writers rated speed.
- Update the latest BIOS version. See manufacturer for latest firmware updates.

Can't boot up or upgrade BIOS.

- Contact Summation Technology.
- Check if the BIOS program is correct.

FAQ's

How do I reset everything to factory defaults?

Press and hold the Mode button while powering up the duplicator. Keep holding mode until "Clear Setup" appears on the LCD screen. All settings will be reset back to factory default.

What if the Duplicator will not power on?

Make sure the unit is plugged into a power outlet and the on/off switch is pushed in all the way.

What if the duplicator is having trouble making a copy, what can be done?

The most common problem with discs playing but not duplicating can be attributed to overall quality. Some factors affecting disc quality include brand of blank media used, physical damage, and write quality. It is important that the disc is free of damage or blemishes and produced on a high quality brand of media.

Make sure that the "master" DVD has been finalized.

Make sure the "master" DVD is not encrypted or is not a copy protected original.

Make sure you have high quality, blank pieces of media.

Make sure your master disc and blank disc are the same format. (-R to -R or +R to +R)

Make sure you're not trying to copy a CD to a DVD or DVD to CD.

Try using a different brand of blank media.

What if the duplicator is having trouble reading a DVD, what can be done?

Make sure you have Content on the "master" disc.

Make sure the "master" disc in good condition. (Disc is not scratched)

Make sure the disc is placed in the drive properly. (Data side down)

Make sure the "master" disc has been finalized.

What does "Stand-Alone" mean?

No computer is required to make copies of DVDs. Plug it in, turn it on, insert source DVD and blank media, close the drive trays and the duplicator starts copying.

Can I copy Hollywood DVD movies with a Summit duplicator?

No, commercial movies are copy protected and cannot be copied with this or any duplicator. You can copy your own video creations.

Can I copy CDs in a Summit DVD duplicator?

Yes, you can copy CDs in this duplicator. Just use blank CD-R Media that is certified at least 40X, and use the same process used to duplicate a DVD.

Can I copy DVDs to CD Media in Summit duplicators?

No, DVDs will only copy to blank DVD Media.

Can I copy DVD+R to DVD-R in Summit Duplicators?

No, you can only copy DVD-R to DVD-R or DVD+R to DVD+R.

Can I connect this Summit duplicator to my PC?

No. The SummitPro version has an optional USB port which allows you to access one of the burners to burn a master disc from your PC. Please contact your Summation sales rep for more information.

How do I clean my Summit duplicator?

The best maintenance for your Summit duplicator is preventive maintenance. Using a system in an area with excessive dust, smoke, or other contaminants is not recommended since it will increase error rates and reduce hardware life expectancy. Some light cleaning can be performed; you can use a can of compressed air for dusting out drives.

If you are unable to solve your technical problems, Please call 1-888-340-3738 or email us at support@summationtechnology.com