EliteMicro

CDR / DVDR Publisher

Hardware Installation and Setup Guide

USB 2.0

Service and Contact Information

Free lifetime technical support.

Disc Makers' Technical Support Department is here to help you every step of the way with your duplication system. Our goal is to minimize your downtime and maximize the return on your investment. We offer FREE technical support to you for as long as you own your duplicator. If you run into any problems or have any questions, call us at 1-888-800-4041.

Our tech support hours are 9am to 5pm EST Monday through Friday.

Toll Free Service Number 1-888-800-4041

Service Email techsupport@discmakers.com

Support & Download Website www.dmelite.com

For Supplies and Accessories, visit www.discmakers.com

Please register your Elite unit by visiting
http://www.dmelite.com/register
This will allow you to be notified of future software upgrades

Whenever you contact Discmakers please have the serial number listed in the front of this manual or on the rear of the EliteMicro, so a customer service representative can log onto your account. Discmakers utilizes one of the most advanced trouble-ticket monitoring solutions. We track any and every exception or trouble ticket to verify that you are completely satisfied with your purchase.

You are our customer and we will meet your needs and exceed your expectations!

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FOREWORD

It is illegal to duplicate copyrighted discs for any reason other than personal use, unless you happen to be the copyright owner. The EliteMicro recording unit is intended for use only to those identities that are the owners of the copyright or are properly licensed to use the copyright.

Copyright, Trademark and Service Mark Acknowledgement

Manual Revision 032204 Rev USB

Table of Contents

EliteMicro™ and Inkjet Printer.

Welcome

Thank you for choosing the EliteMicro CDR / DVDR publisher. This system has been designed and manufactured under strict quality guidelines. This product will provide years of dependable and trouble free operation.

Description

50 Piece Input   A CDR or DVDR Drive   2 Year Warranty on Robotics

The EliteMicro is a single writer desktop CDR or DVD/CDR copying and printing solution in a single footprint. As the smallest and most versatile duplication system on the market today, the EliteMicro offers you endless possibilities to automate your CDR or DVD/CDR duplication and printing needs.

The fast and advanced Center-Pick autoloading mechanism will provide ease of use and trouble-free operation. The EliteMicro components are based on industrial design technology that will provide years of trouble-free operation.

The EliteMicro is provided with all the hardware and software that allows easy installation with customer provided computer hardware. Please be sure to review the minimum computer requirements. Failure to observe these requirements could affect the performance of your EliteMicro and quality of your recorded product.

The EliteMicro comes standard with a CDR Writer or a DVDR/CDR Writer that is controlled by Padus's® award winning DiscJuggler® recording software. The recording software offers an easy to use duplication process with trouble-free operation. The DiscJuggler® software is firmly embedded within the EliteMicro™ Autoloading software providing a seamless and reliable solution to the user.

If you purchased the optional CD Printer Adapter Kit hardware, Discus© labeling software is included to enhance your product. The Discus© label making software is a simple and easy to use program that will enable you to create professional quality CD/DVD labels.

Hardware Configuration

Before starting the installation, please review the following figures showing the EliteMicro Hardware and Functions

Loader to PC Serial Connection

Printer Control Interface

Power Switch

USB 2.0 to PC Connection

AC Power Input

CD Printer

Printer Controls

Printer Guide
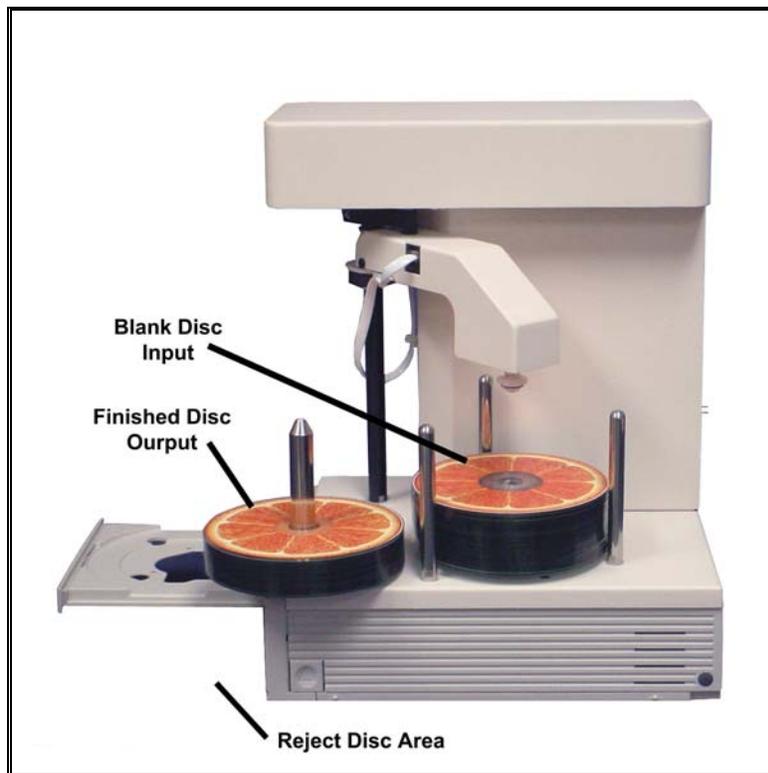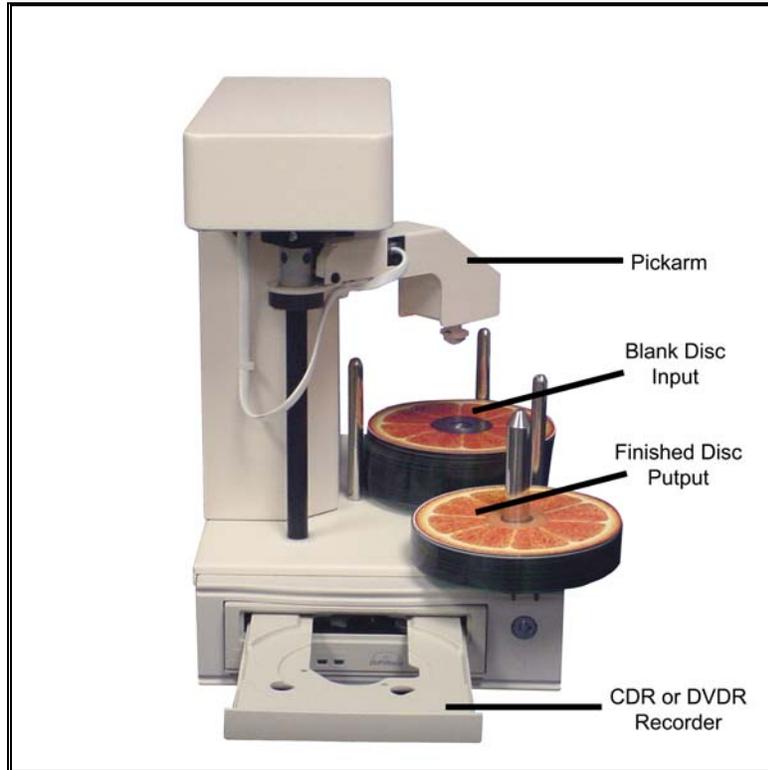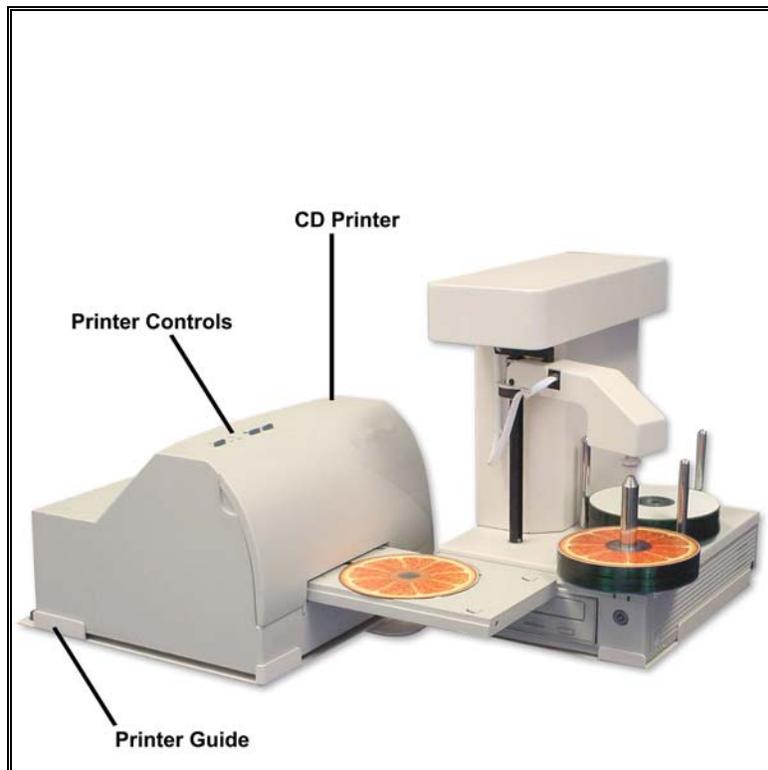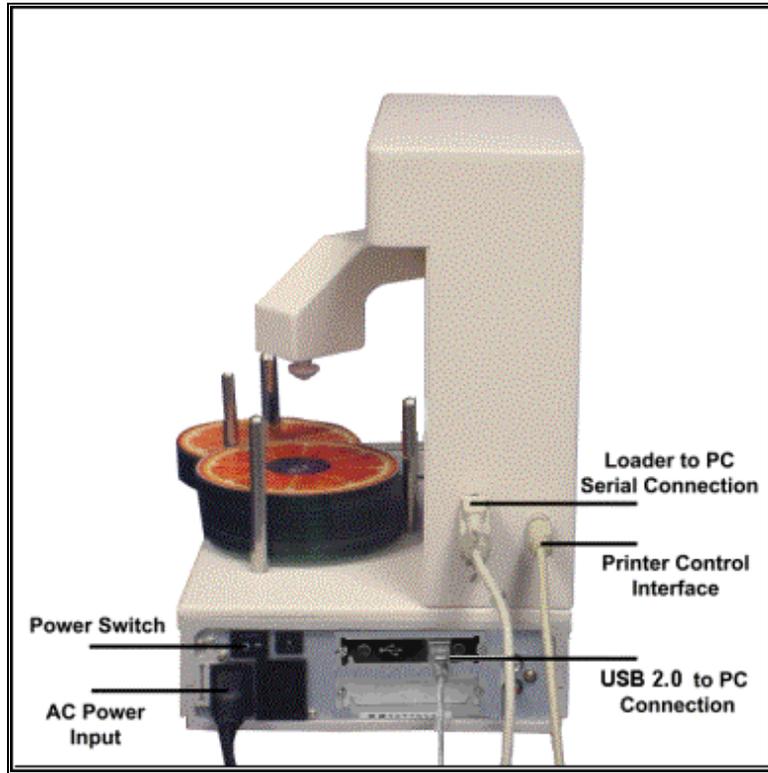
Customer Minimum Hardware and Software Requirements

Desktop systems change rapidly and the EliteMicro was designed for use with PC systems that are relatively new models. It is recommended that you operate your new EliteMicro with the best possible hardware. This will ensure you a recording and printing system that will operate smoothly and efficiently.

The following are minimum requirements for the PC to which the EliteMicro is to be connected. These are very important. Due to the high speed of the Writer, sufficient memory and FAST hard drives are required.

Minimum PC Requirements:

- ✓ 1.6 GHz Celeron® Processor or equivalent
- ✓ 256 MB RAM
- ✓ 7200 RPM 20 GB Hard drive (CDR) with 50% free space
- ✓ 7200 RPM 40GB (DVDR) with 70% free space
- ✓ Available External Com Port (for RS232 to autoloader)
- ✓ Available USB 2.0 Port *
- ✓ Available Parallel Port (for CD printer)

Software Requirements:

- ✓ Windows 2000 or Windows XP

* CAUTION: Use only with a USB 2.0 port. The use of USB 1.1 will dramatically reduce performance.

If Windows displays a message that a fast USB device is detected on a slow USB port, then you need to upgrade your computer by adding a USB 2.0 port.

This brief setup guide is provided to get the EliteMicro operational out of the box. Once you get the system operational, complete online help can be accessed from the DiscJuggler HELP Section.

Step 1
Unpacking the Hardware:

Your EliteMicro system is shipped in one main carton and if the printer adapter kit is ordered, a second carton is included. If you purchased the CD Printer, it is shipped in a separate box.

Carefully open the box and remove the top protection cardboard sheet. You will then be able to remove the following:

Main Carton w/ EliteMicro	**Printer Adapter Kit Carton**
➢ USB 2.0 Cable ➢ DB9 Serial Loader to PC Cable ➢ AC Power Cord ➢ Installation CD for EliteMicro Software	➢ Hardware Setup Manual ➢ Printer Guide Plates (2 pcs) ➢ Printer Control Cable ➢ Printer Parallel Cable ➢ Installation CD for Label Printing Software

Set the components on a table that will hold the EliteMicro unit and your PC. Next, by lifting straight up, carefully remove the foam container and foam protection over the EliteMicro unit. You will see the EliteMicro in a plastic bag.

Grasp the EliteMicro on the top section and place the other hand underneath the unit. Gently lift out of the shipping box and set onto a table.

Remove the EliteMicro out of the bag and place all shipping components back into the shipping carton for future use. It is important to always ship the EliteMicro in its proper container so storage of the box and accessories is important. In the event you misplace your packaging and need to ship the EliteMicro contact the service department and a new shipping container will be shipped out.

Next remove the printer from its shipping carton and place all the components on the table.

Account for all the components.

EliteMicro Carton with
Hardware located in top section

View of Contents of
Top-Hat Foam Section

EliteMicro with the Top-Hat
Foam section removed.

Place a hand on the top piece and the
other hand under the unit to remove

Carefully lift out as shown

Remove from bag

NOTE:
Do not attempt to raise the CD Pick Arm by hand;
the software will position the Pick Arm when the EliteMicro is initialized.

Main Carton w/ EliteMicro

➤ USB 2.0 Cable
➤ DB9 Serial Loader to PC Cable
➤ AC Power Cord
➤ Installation CD for EliteMicro Software
➤ Hardware Setup Manual

Printer Adapter Kit Contents

➤ Printer Guide Plates (2 pcs)
➤ Printer Control Cable
➤ Printer Parallel Cable
➤ Installation CD for Label Printing Software

Step 2
Installation of the Printer Adapter Kit

Locate the two sheet metal printer guides that are included with the EliteMicro Printer Adapter Kit. Refer to Figure 9.1 on the next page and arrange the guides as shown.

Remove the black knob that will hold the two guides together. Place the guides together as shown in 9.2 and then replace the black knob, tighten securely. (Hand Tighten)

Next arrange the guide as shown in Figure 9.3 and USING THE INSERTATION ANGLE INDICATED, place the EliteMicro Recording unit into the guide.

Next insert the CD Printer as shown in Figure 9.4. USING THE INSERTATION ANGLE INDICATED, place the CD Printer into the guide. Holding the printer with hands on the left and right side, insert the front on the printer at an angle first, then let the back section "drop into" place. The printer should be securely inserted into the print holder tray and should be completely level.

Review your configuration and confirm it matches Figures 9.5 and 9.6.

Plug the CD Printer Control Cable (mini din cable similar to a keyboard cable and has connectors on both ends) into matching connectors in the rear of the EliteMicro and the rear of the Printer. (Figures 9.7 & 9.8)

Plug the parallel printer cable provided with the Printer Adapter Kit into the rear of the printer and into the parallel port of your PC. (Figure 9.8)

Place the AC Power Adapter that was provided with the CD Printer next to the rear of the printer and plug into a standard 115VAC outlet. Plug the other end into the power connector on the rear of the printer.

If you received a new printer with the EliteMicro, follow the printer documentation. Turn on the printer and install the print cartridge that was shipped with the CD Printer.

The EliteMicro is generally preset for the CD Printer. Once the unit is connected and operational, you may have to perform an alignment of the printer.

Please note that in addition to installing Label Making Software you will be required to install the Printer Driver included with your printer. Please refer to the printer manual for details.

Installation of the CD Printer
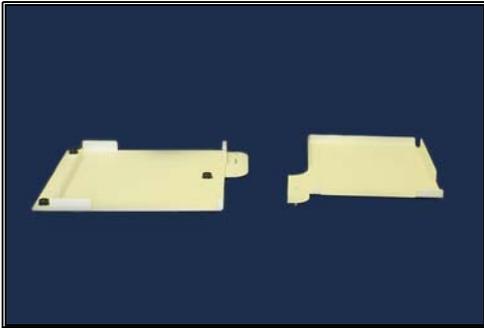
Figure 9.1
Locate the two sheet metal printer guides and arrange as shown, remove black knob
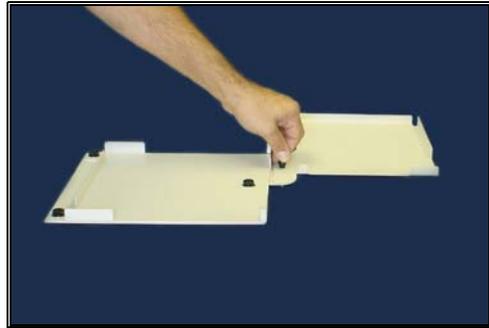
Figure 9.2
Place the guides together as shown and then replace the black knob, tighten securely.
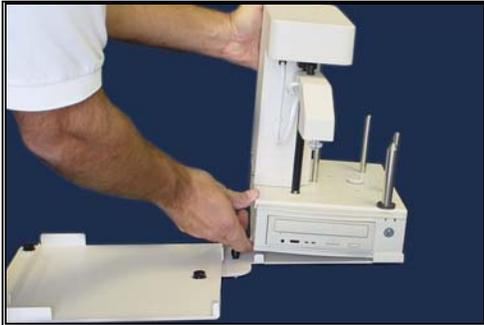
Figure 9.3
Next arrange the guide as shown,
USING THE INSERTATION ANGLE INDICATED,
place the EliteMicro Recording unit into the guide.

Figure 9.4
Next insert the CD Printer as shown
USING THE INSERTATION ANGLE INDICATED,
place the CD Printer into the guide

Figure 9.5
Review your configuration and confirm it matches as shown

Figure 9.6
Review your configuration and confirm it matches as shown
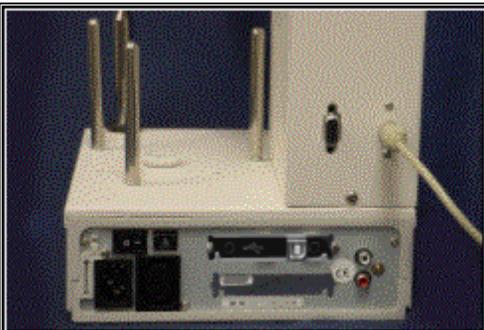
Figure 9.7
Plug in CD Printer Control Cable into the EliteMicro as shown

Figure 9.8
Plug in the CD Printer Control Cable and the parallel Cable into the Printer as shown

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Step 3
Installation and Connection of AC Power, USB 2.0 and Serial Link

Plug the USB 2.0 and Serial Cables into each of their identified connections located on the rear of the EliteMicro unit. These connections are identical to the common connections of standard computers.

Arrange your PC hardware on the same table as the EliteMicro unit. Connect the other ends of the USB 2.0 and Serial Cables to their respective connections on your PC.

Plug the power cord into the power supply of the EliteMicro, also located on the rear side. Plug into a standard 115VAC outlet.

It is recommended to plug these components into a common plug strip with AC filtering, as is common with most high-end computers. Also if the unit is to be located in an area where the utility or power company experiences frequent outages, utilizing a UPS is strongly recommended.
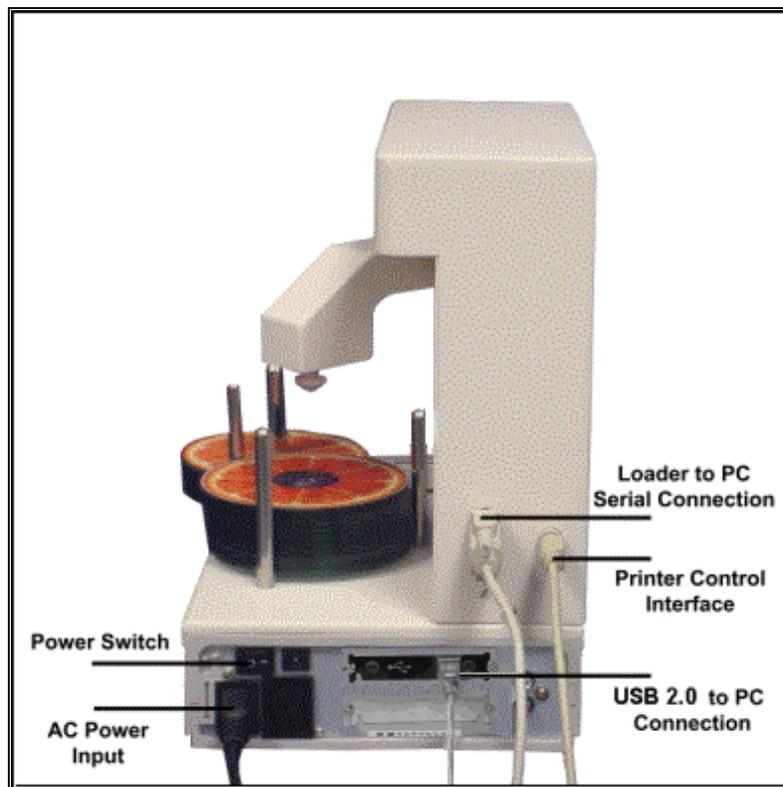
Connection of AC Power, USB 2.0, Serial and Printer Control Cables

NOTE: Review your entire unit and be sure that you have four cables connected to the EliteMicro Unit, three (3) cables connected to the printer and (3) cables connected to your PC.

Installation of Startup CDR

Locate the EliteMicro Installation and Support CDROM, insert into your PC's CDROM drive and it will automatically open to the setup screen shown below. *Note: If your CDROM drive is not set to autoplay, open the CDROM and click on click_here.htm.*

Once the Installation CDR is deployed, you will have several options displayed on the screen.

Each of these options are briefly outlined on the following page.

Choices on the Installation CDR

Install EliteMicro CDR/DVDR Software onto your PC

Click on this to install your CDR-DVDR Recording Software that will master your CDR-DVDR's and control the autoloading-printing process.

Install EliteMicro AutoLoader Command Console Program

Click on this choice to install your Autoloader Command Console, a support utility for aligning, troubleshooting and upgrading your EliteMicro Autoloader. You may have to install the .NET Framework before installing this software.

View EliteMicro Hardware Setup PDF Document

This is an electronic PDF version of the installation manual.

View the DiscJuggler Recording Software Manual (PDF 368 Pages)

This is an electronic PDF copy of the Recording Software manual. You can copy this document to your Desktop. This document will provide support for your EliteMicro.

Install .NET Framework

This is a copy of the Microsoft® .NET installer. If your pc does not have the installer, you will be prompted by the installation to install this program.

Register Your EliteMicro

If your PC is currently connected to the Internet, click on this option to register your EliteMicro online. You are encouraged to register your EliteMicro to allow you to be notified of software updates.

Check for Software Updates/Upgrades

If your PC is currently connected to the Internet, click on this option and you will be directed to the software support download site. You can compare the version you are installing or are currently using, if it is an older version you can download an update – FREE! Be sure to download the installation PDF and review before upgrading your software.

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Step 4
Installation of Recording Software

The first option is installation of the recording software. Select <u>Install EliteMicro CDR/DVDR Software onto your PC</u> and the software will begin to automatically install.

Note: Keep the Registration Key [DJ4A-0000-0000-0000-00] on the back of the Sleeve handy; you will need to enter this number when installation of the software begins. Play close attention to the Key and be sure to enter exactly as it is written on the label.

Choose to OPEN from location when the screen below appears. Your CDR-DVDR software will then be installed from the CDR
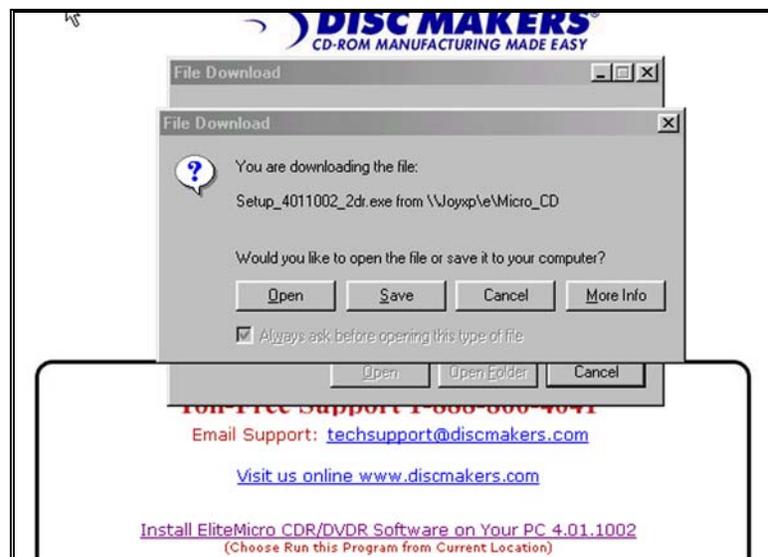
Follow the instructions on the Recording Software installation.
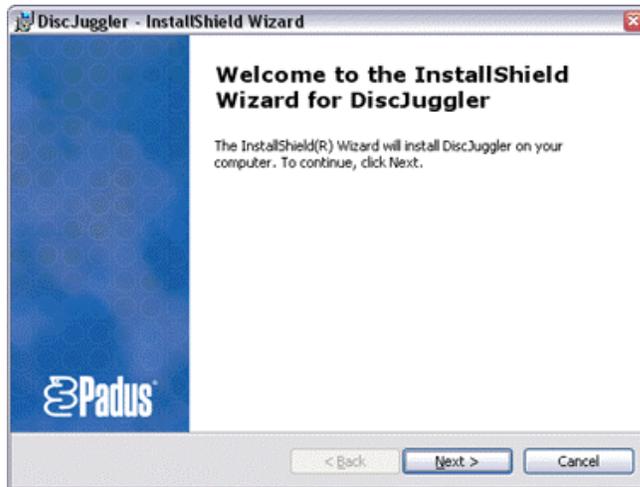
The DiscJuggler installation will begin with this screen. Click Next.

Enter your name and company information and the Registration Key [DJ4A-0000-0000-0000-00] on the back of the CD Sleeve and on the front page of this manual. Play close attention to the Key and be sure to enter exactly as it is written on the label.

Click complete and Next

The installation is complete. Click Finish and the DiscJuggler Icon will be placed on your desktop.

Step 5
Installation of EliteMicro Autoloader Command Console

Next you can install the ACC (Autoloader Command Console) program. This is a utility program used to align and support the Elite Autoloading unit.

Double click on the Install EliteMicro Autoloader Command Console Program and choose Open from location. The ACC will install, please follow the instructions.

NOTE: If at the beginning of the installation the installer cannot locate the Microsoft Dot.Net Framework, you will need to cancel installation and click on Install .Net Framework. Please follow the instructions and once the .NET Framework is installed, proceed with installation of the Autoloader Command Console.

Once the ACC has been installed, review the following two pages to understand the features and functions of the ACC.

AutoLoader Control Center

Model   Comm Port

Diagnostics | Program | Set Positions | Comm Center | About

Run Diagnostics

1 - Top Sensor
2 - Float Sensor
3 - Printer Position Sensor
4 - Drive Position Sensor
5 - Output Position Sensor
6 - Input Position Sensor
7 - Serial Communications
8 - Printer Control
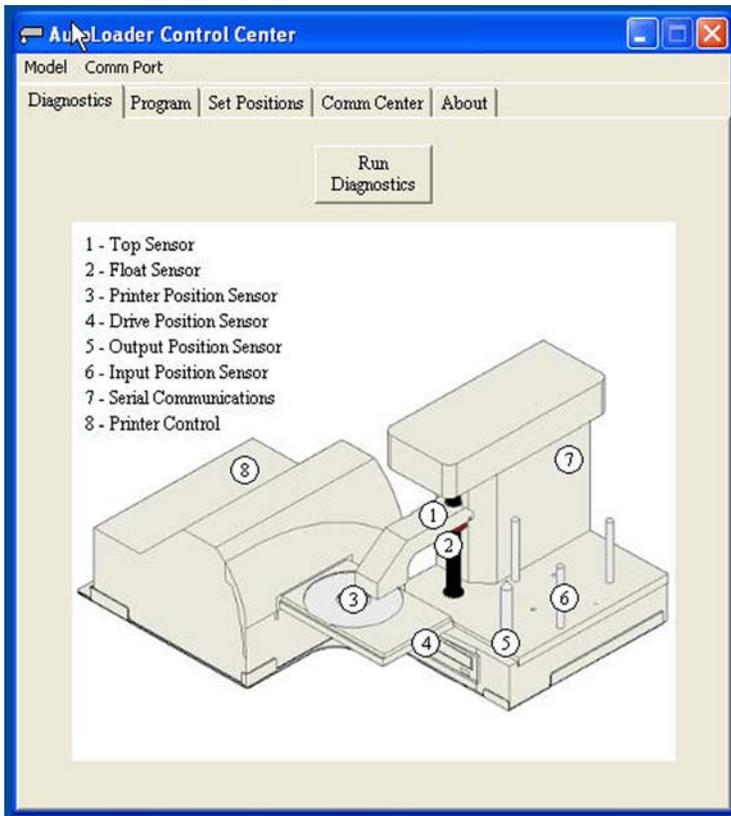
The ACC allows you to troubleshoot and update your EliteMicro unit. If any electrical or mechanical issues occur, run the Diagnostics. The ACC Diagnostic routine will test all functions of the autoloader and provider graphical feedback.

The **Comm Port** setting enables you to chose between using COM1 and COM2 when communicating with the EliteMicro. This choice depends upon which of your PC's serial ports you plugged the EliteMicro's serial cable into.

AutoLoader Control Center

Model   Comm Port

Diagnostics | Program | Set Positions | Comm Center | About

Retreive Current   Submit   Test Positions

Input 0

Output 0

Printer 0   Drive 0
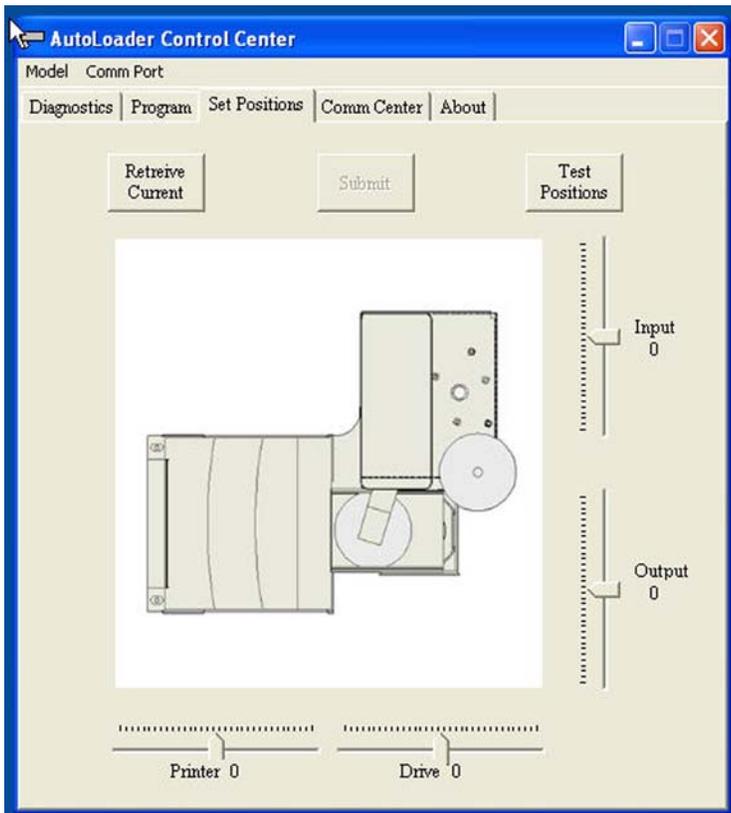
! CAUTION !
This screen allows you to adjust the position of the Picker Arm when placing CDs in the recorder and printer. **DO NOT** change these settings unless instructed to do so by a qualified technician

This screen provides an easy way to update the AutoLoader's firmware if changes are made in the future.

AutoLoader Control Center

Model   Comm Port

Diagnostics | Program | Set Positions | Comm Center | About

Get Current Version   Set Firmware File

Current Firmware: NONE

Current Firmware File:
NONE

Reprogram Autoloader
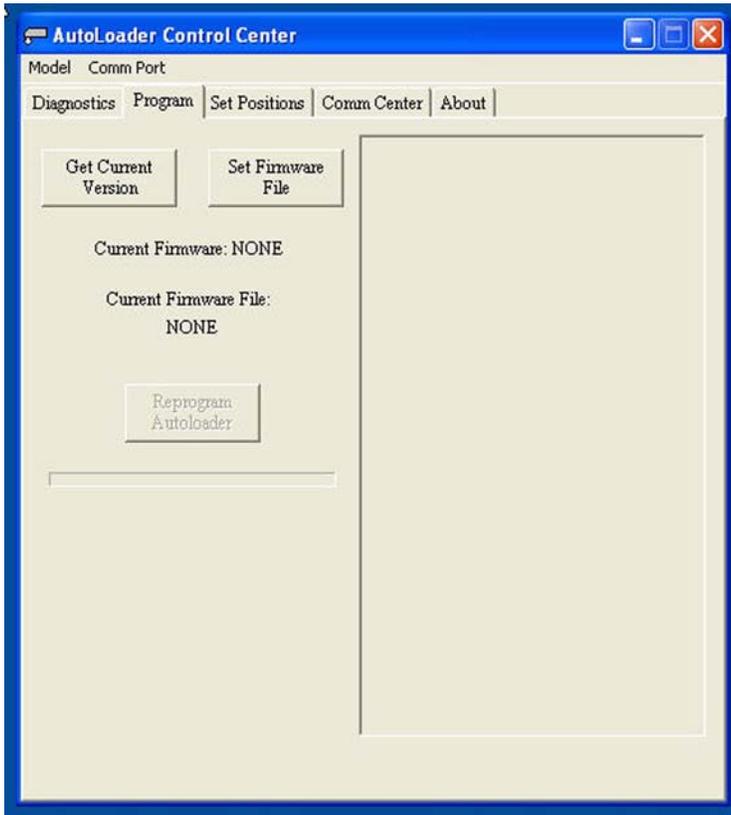
This screen offers an easy way to recalibrate your unit if the need should ever arise.

AutoLoader Control Center

Model   Comm Port

Diagnostics | Program | Set Positions | Comm Center | About

Calibrate Successful

Calibrate   Insert to Drive   Accept from Drive

Reject from Drive   Print from Drive   Print from Input

Open Printer Tray   Close Printer Tray
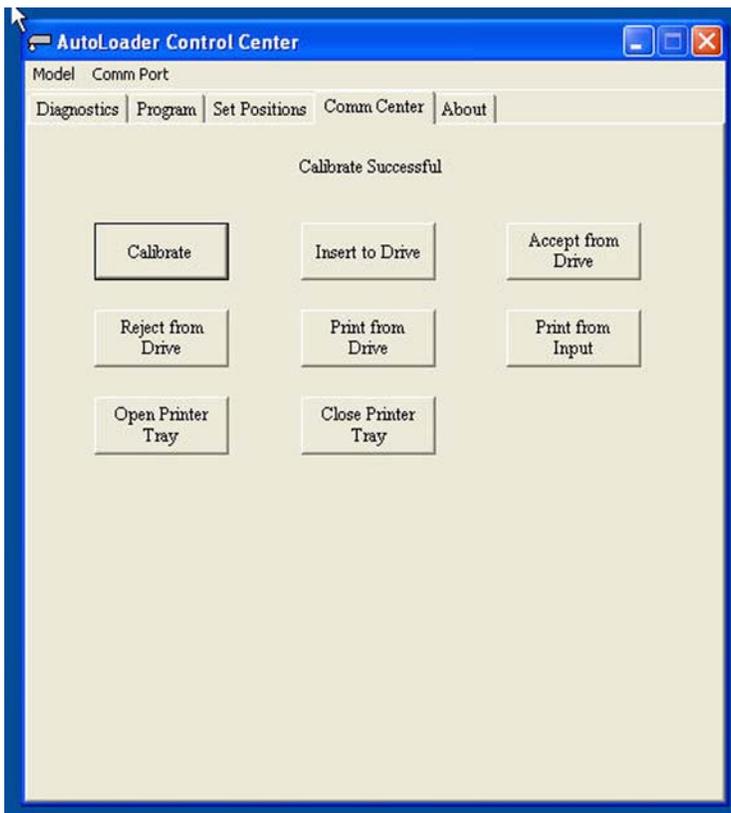
Step 6
Installation of Labeling Software

If your EliteMicro was purchased with the Inkjet Printer Adapter Kit, you will need to install the label making software included with the kit.

Locate the Discus CD Labeling Software CDR and insert into your CDROM drive on the PC that is connected to the EliteMicro. The menu below will be displayed, choose install to hard disk. NOTE: Be sure that your PC can handle the 500MB and not affect the minimum requirements of the EliteMicro hardware.

When the Discus Labeling Software begins to install, it will first load Apple QuickTime onto your PC. Following the instructions on the installation. When the screen asks to register the QuickTime, simply click on Proceed without entering anything.

Once the Discus installation is complete, a Discus LE icon will be placed on your desktop.

Click on the DiscusLE icon and verify that the Discus installed correctly. Close Discus and remove the CDROM.

Step 7
Disabling Auto-Insert Notification for your CD ROM Drives

If your computer automatically tries to play a music CD, or launch a program when a data CD is inserted into your CD ROM drive, then you will need to turn off your computer's "Auto-Run" feature. You **MUST** disable Auto-Run for the EliteMicro's recorder. Otherwise, when you insert a master CD to be copied, your computer will try to automatically play or run whatever is on that CD.

One easy way to disable Auto-Run in Windows XP and 2000 is as follows:

Click on the Windows Start button, select Run. Type "regedit" into the space. Click OK.
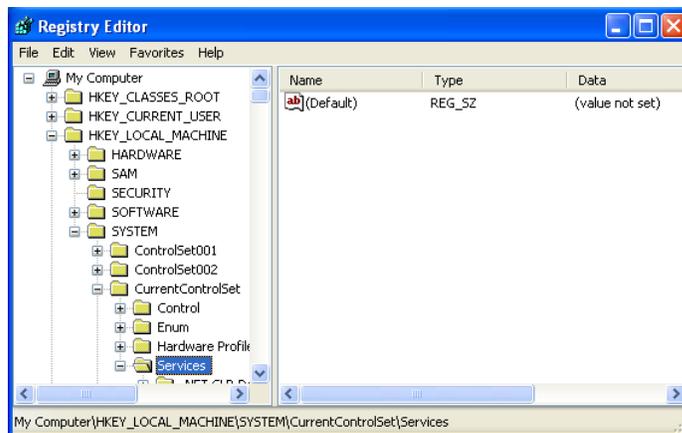
You will see a screen similar to the one at the left. Click on HKEY_LOCAL_MACHINE, then SYSTEM, then Current Control Set, and then Services.
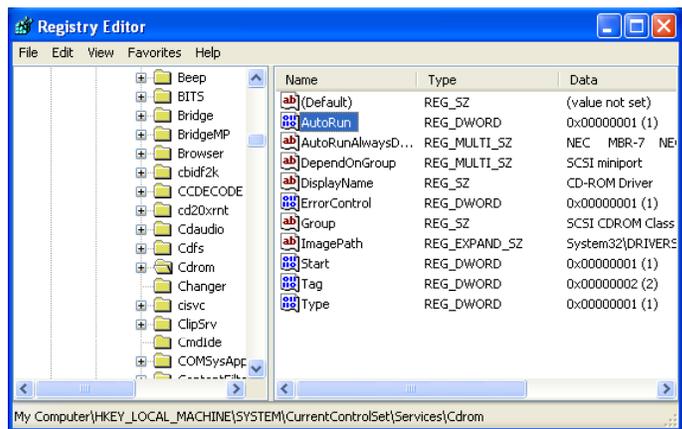
Scroll down until you find a folder called "CDROM" and click on it. On the right side of the screen, you will see an "Autorun" entry. Double-click on the file name and a new window will open, allowing you to change the value from a "1" for enabled, to a "0" for disabled. Below is a picture of this. Click OK and close the Registry Editor.
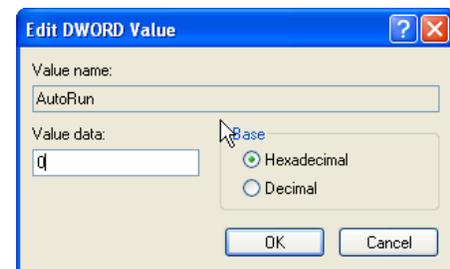
Reboot your computer.

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Arranging the Icons on your Desktop

Once your system has rebooted, depending on where the three icons were placed on your desktop, you will want to arrange the icons as follows:

ACC is the EliteMicro Autoloader Command Console

DiscusLE is the Label Editing Software for inkjet printing on the CDR-DVDR

DiscJuggler is the recording software that will master, record and print your CDR/DVDR product.

Main Desktop with ICONS

Turn on your EliteMicro Unit

Ensure that all the cables are properly connected. Turn on the EliteMicro by flipping the power switch located on the rear of the unit. You are now ready to start creating and duplicating CD/DVDs.

Step 8
Load Blank CD's and Start Duplication

You are now ready to begin a job or task on the EliteMicro. Turn on your unit if you have not already done so. Refer to the previous page if necessary. The next steps will take you through a typical setup and usage of the EliteMicro. It is recommended to follow these steps and produce a test job, then move on to the many other functions and features of the EliteMicro.

Load blank Ink Jet media, data side down, onto the input spindle. The input spindle has three silver rods located around the outside edge of the media. Please be sure the media does not stick together and that the media lays flat in the input spindle.

Place a CD to be copied on top of the input spindle. This will be the 'master' for this test run. Use an image of 30 MB or less to allow the test run to be faster.

On the Desktop, click on the **DiscJuggler ICON** and the DiscJuggler will run.

Click on **File**, choose **New** and the panel below will open.

Choose **Copy CDs and DVDs from the same burner**
(This task will take the CD on the top of the Input Stack; load a temp image to the hard drive and copy from the temp image.)
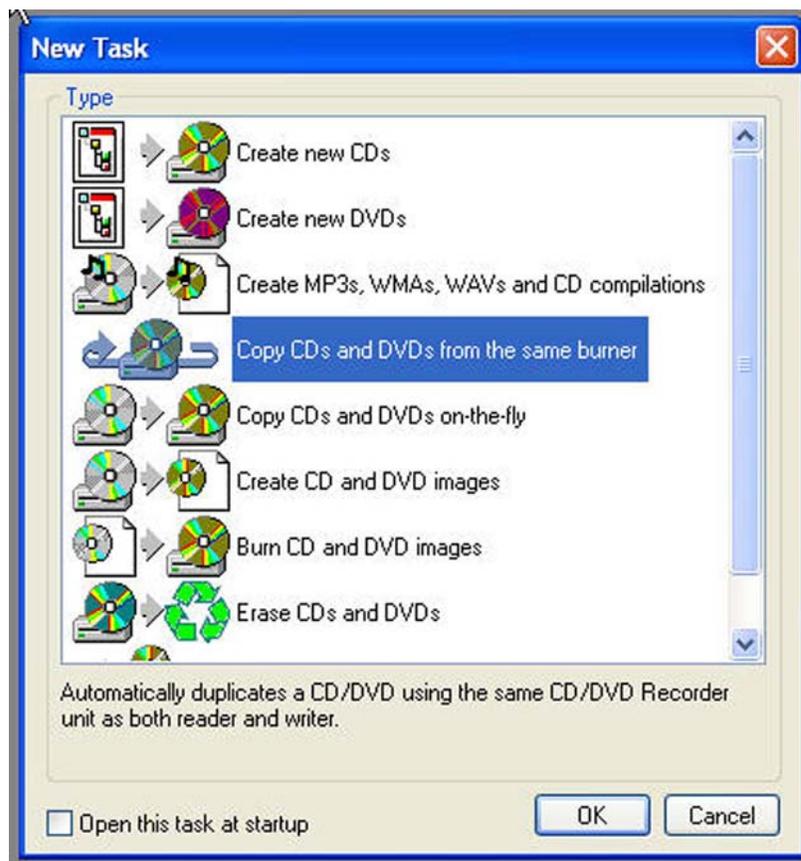
Screen of Start of a New Job

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After you have selected **Copy CDs and DVDs from the same burner**, the panel below will open. Choose **ACTION** from the upper right section. On the PULL DOWN select **Write and Print** if you have a CD/DVD printer. Otherwise, select **Write**.
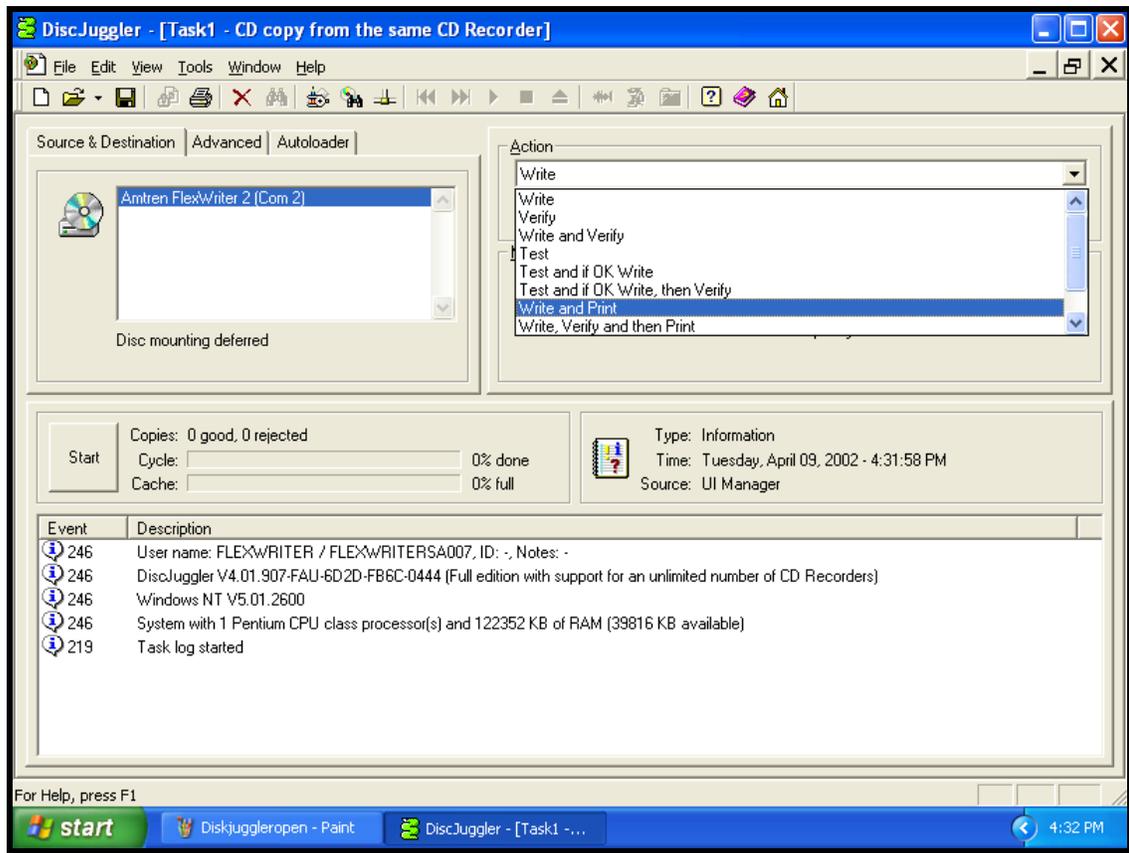
Under the **Source and Destination** tab, ensure that the Micro unit is selected, and **NOT** a recorder on your PC.

Next enter the number of **Copies** or disks you want to produce, we have chosen 25 as shown below.

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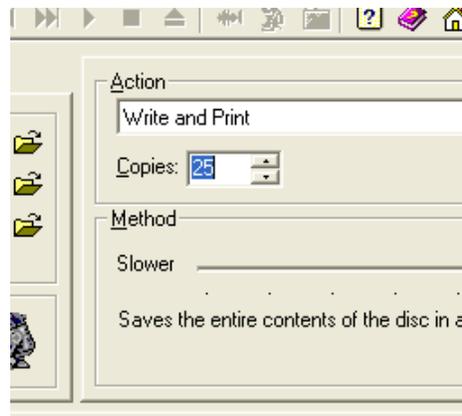
Below **Copies** is an option called **Method**. The "slider bar" allows you to select your recording speed. By default, the slider will be all the way to the right, which is the fastest speed possible. The maximum possible speed will depend upon the model of recorder in your unit and the type of media you are using. If your first job is a data CD, select 24X as your speed by sliding the bar to the left. If you are duplicating an audio CD, choose 16X as your speed. If you are copying a DVD, select 2X as your speed. Once you successfully complete your first job, you can try to burn at higher speeds. Results will vary depending on which brand and type of media you use. Nearly all the CDR and DVDR media on the market today will burn at 24X and 2X respectively.
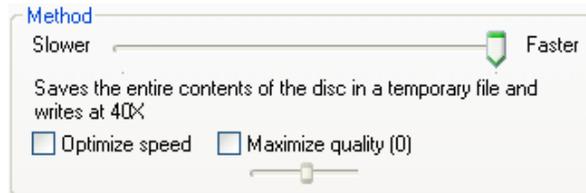
Burn Speed Selector

Once you have found a burning speed that works well with your media, you can make that speed the default. To do this, click on the **Tools** menu located at the top of the DiscJuggler window. Then click on the **Options** menu. Next, click on the **Defaults** tab if it is not already selected. You will see the following window.
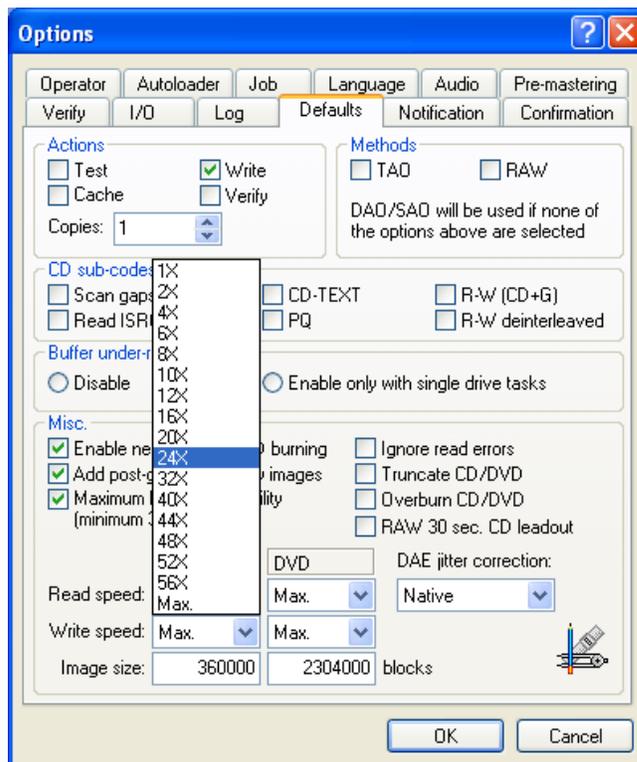
Here, you can change the default write speed for CDs and DVDs to the speeds that work best with your media.

Step 9
SET PRINT IMAGE (LABEL) FOR MEDIA

Next you have to prepare a print image that can be used by the DiscJuggler Software to print text or graphics on top of the media. To do this you will have to use the Discus labeling software provide with the EliteMicro. Minimize the DiscJuggler Software and on the Desktop, Click on the Discus CD Labeling ICON. The Discus Software will open.

When the Discus screen below opens, click on CD Label.
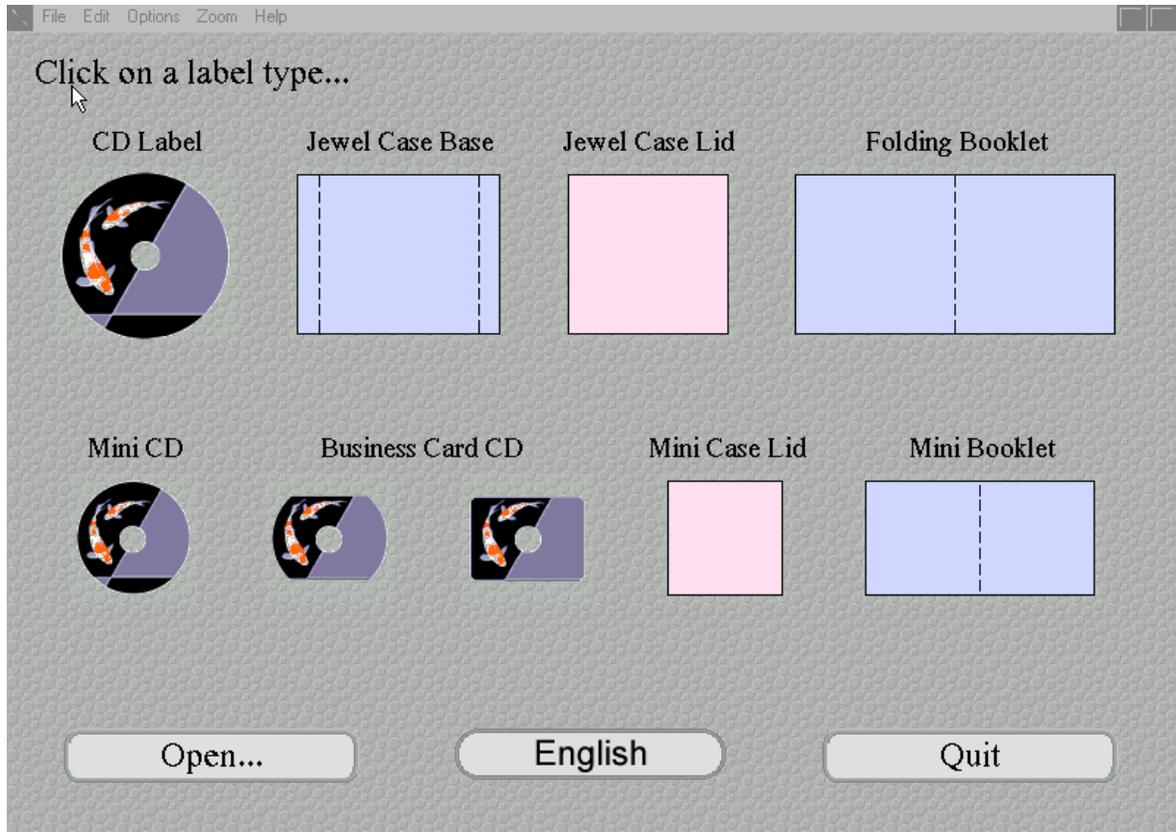
Choose the **Print** folder at the top. Click on Select Template and choose the Primera Signature. Then click on the **Text** folder.
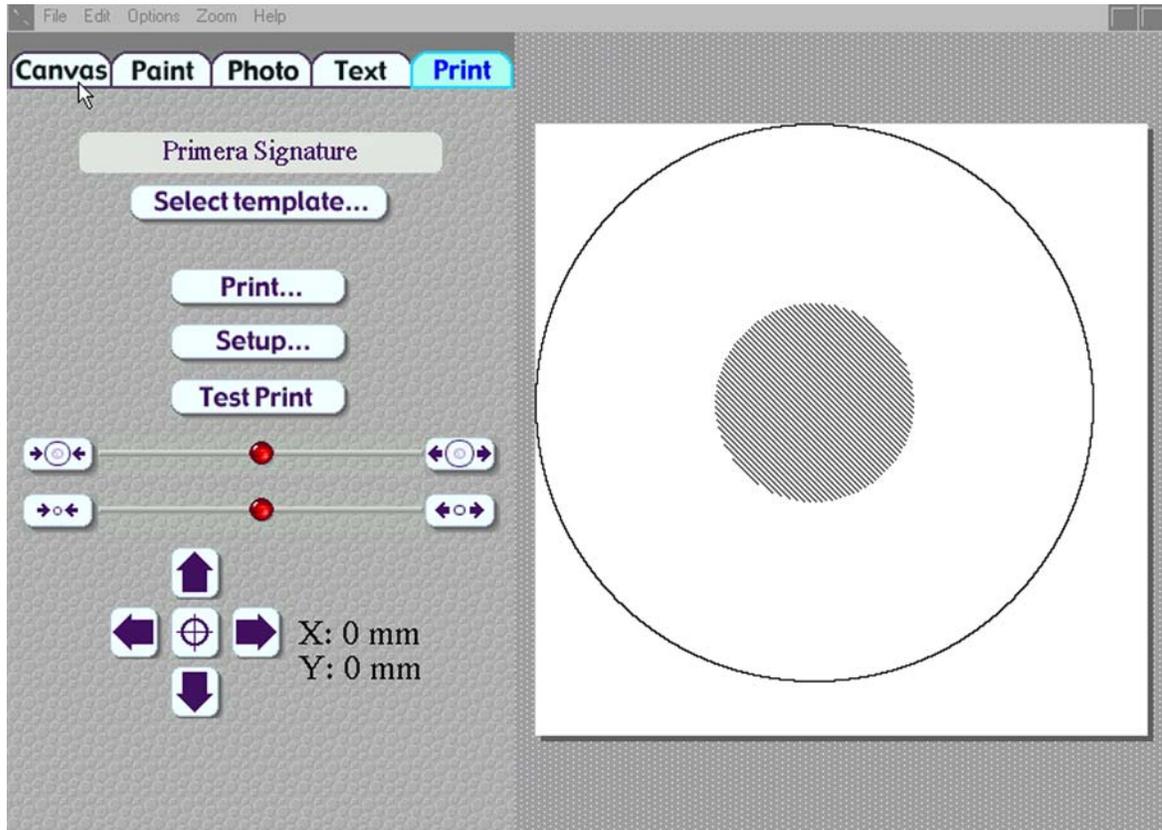
Discus will display the **Text** folder. Click on an ABC button and the Centered button. Then click on the image of the CD. Now type in a simple test label as shown in the figure below.
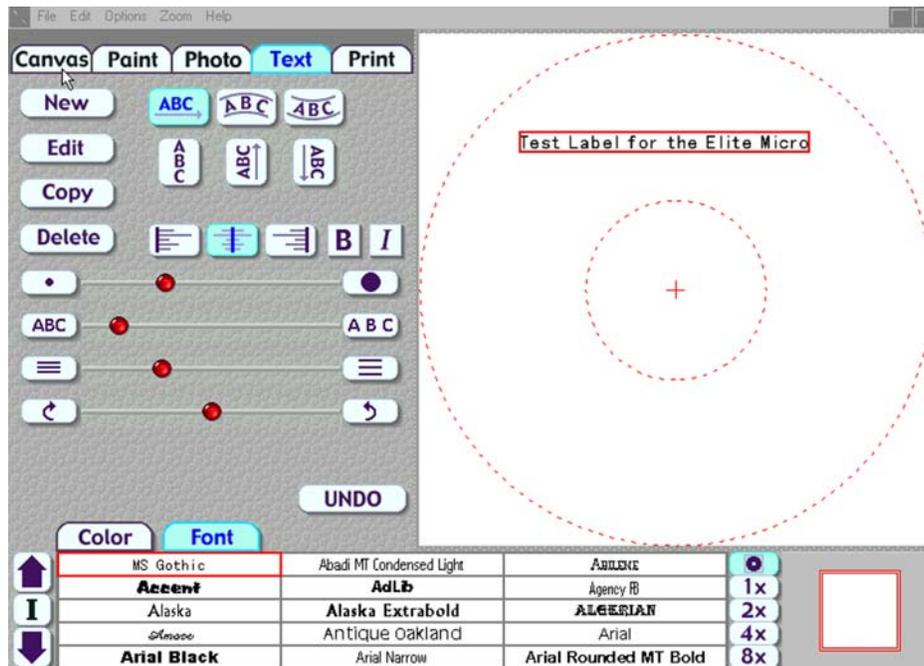
Once you have completed your test label, save it by clicking on File and Save. Choose a path that will be easy to access from DiscJuggler, such as My Documents or the Desktop.

Now click on the **Print** folder and click on the **Print** button. A Printer Display similar to the one shown in the figure below will be displayed. Make sure that your CD printer is selected under **Name**. Choose PRINT TO FILE. In order for Discjuggler to use the label file, it is necessary to create a print file. (i.e. printtest.prn) Click the OK button.
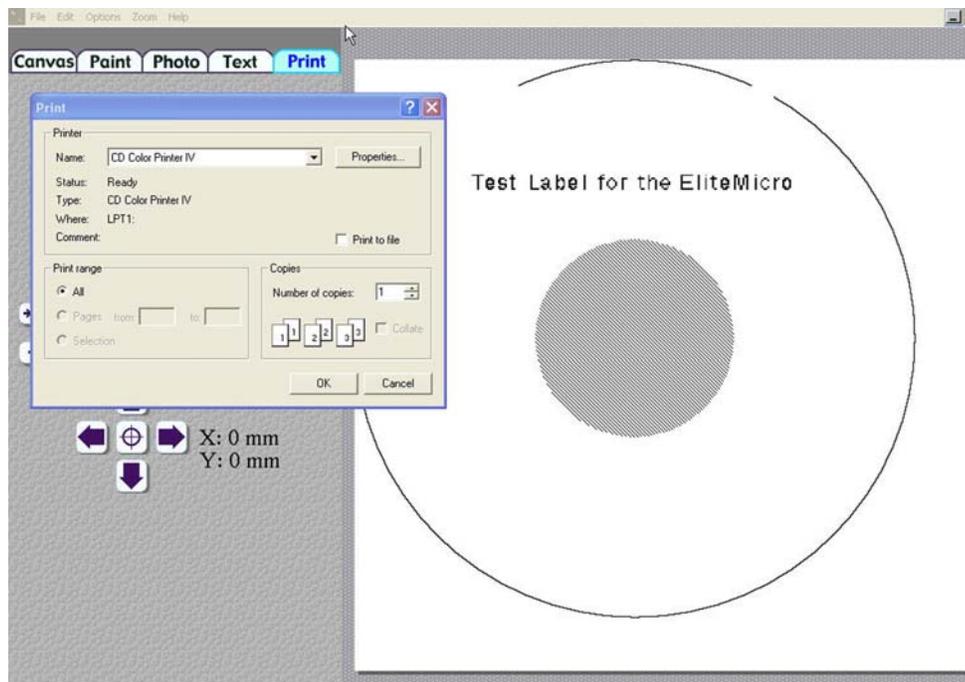
Next you will have to choose a file name for the PRINT (PRN) file. This can be the same as your label file; however, <u>it is necessary to include the ".prn" at the end of the name</u>. In the example below we have created printtest.prn

Click on OK and the Discus Label Software will create the prn file in the same location that you saved your label file.

You can minimize the labeling software and maximize the DiscJuggler software.

Note this may be slightly different if you use Windows 2000.
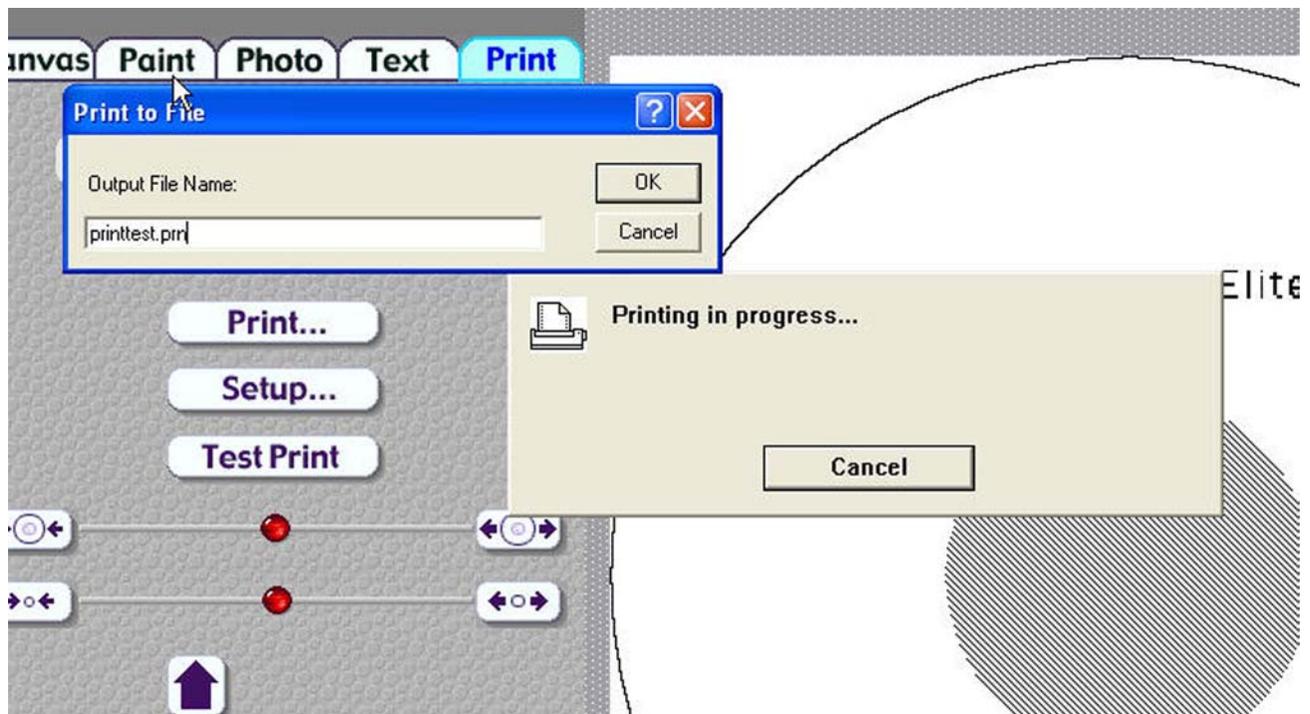
Step 10
SET PRINT IMAGE FOR DiscJuggler

Now you have to provide the label print file location to the DiscJuggler. From the
DiscJuggler Software choose the **AUTOLOADER** tab on the upper left section. Then click
on the folder ICON to the right of the **GOOD LABEL** file panel. Then choose **BROWSE** and
point to the Directory that you stored your print images and choose the printtest.prn file or
the one that you created. Choose the OPEN option and DiscJuggler will place this file and
location into the Good Label section.
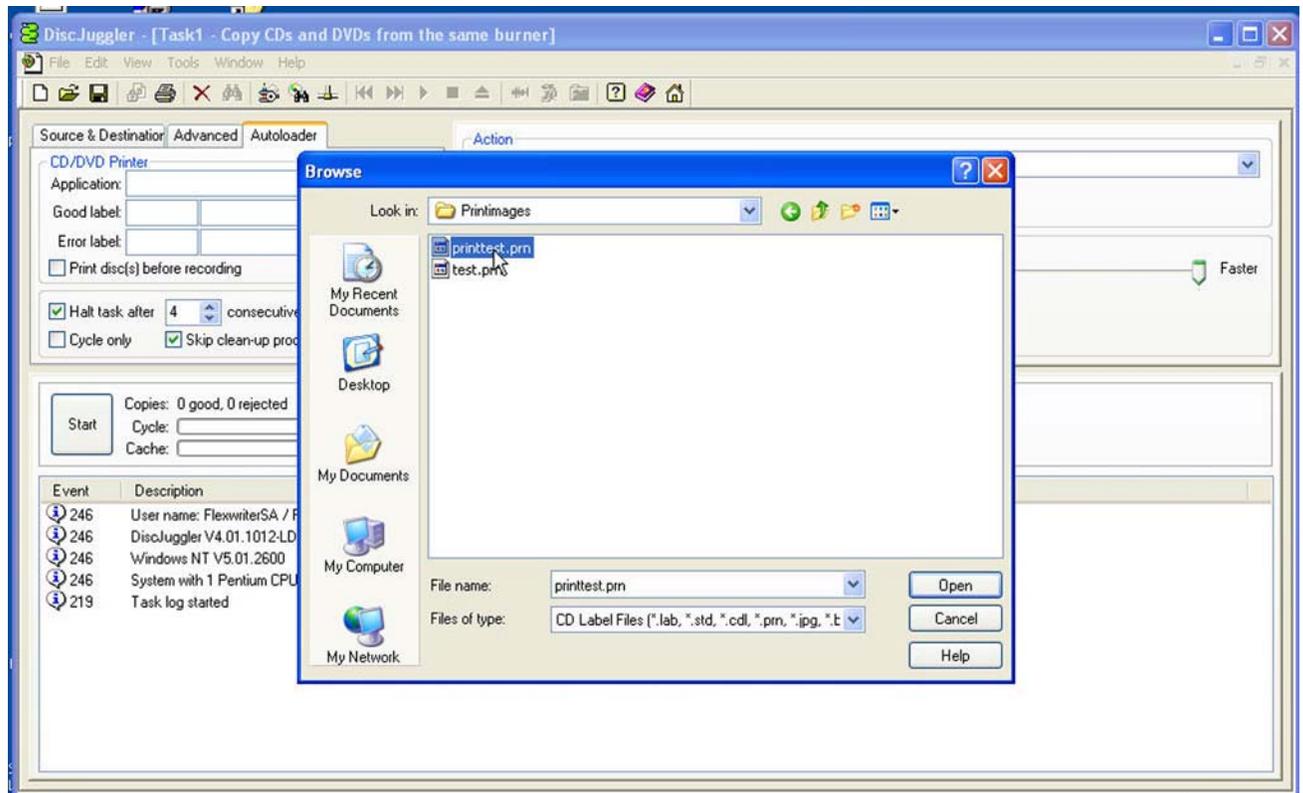
Step 11
Cycle Only Option

As an option you can elect to "cycle only" and the software will not "RECORD" onto the media. Instead it will run through all functions BUT RECORD. Check the Cycle Only box to skip recording.

Step 12
Start The Job

Now you are ready for the unit to start a job. Click on the **START** button.
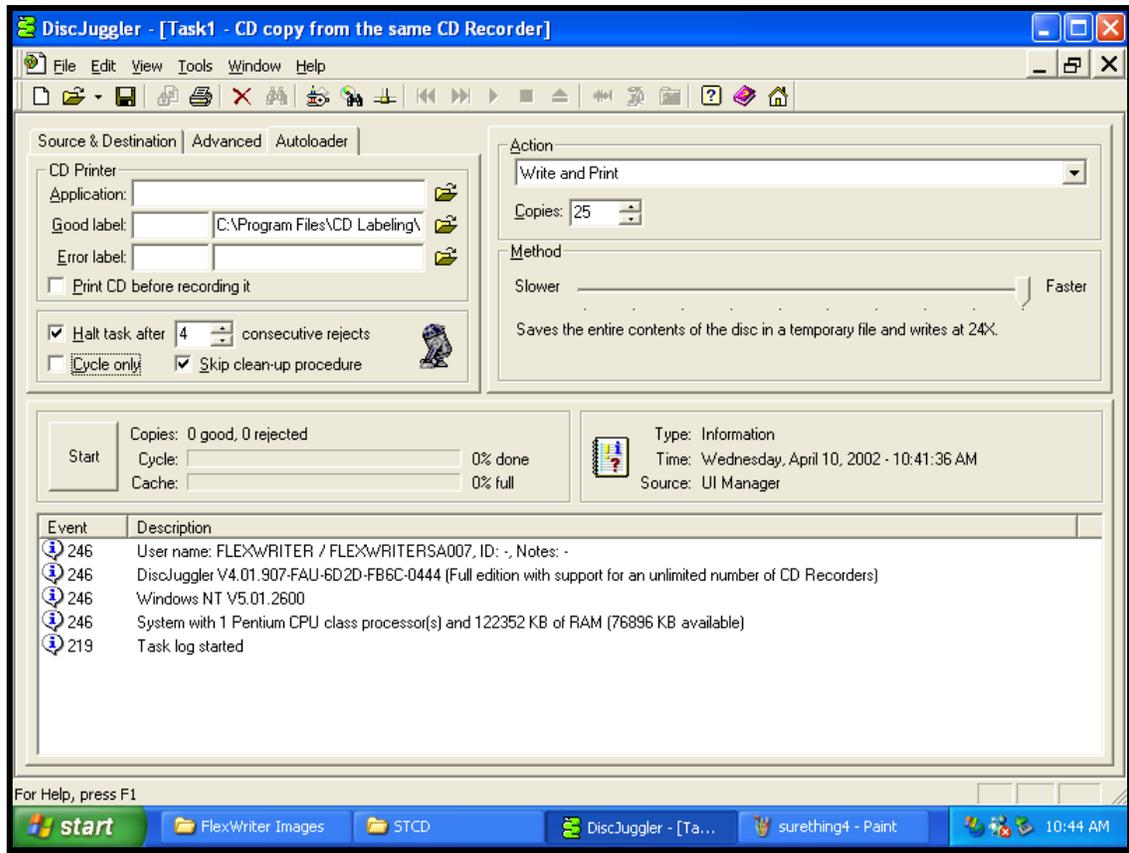
The EliteMicro should move to the input spindle, pick up the 1ˢᵗ CD (your master) and place it into the recorder. The image on the CD will be copied to the hard drive. Then the CD Master will be removed from the Drive and place onto the output spindle. Then the EliteMicro will pick up a blank media and insert it into the recorder. The image will be recorded onto the media. Next the EliteMicro will pick the recorded disk from the drive move to the top of the column and wait for the CD Printer to open. The recorded CD will be placed into the printer tray and the CD will be printed. After printing the EliteMicro will pick up the CD from the printer and place into the output spindle. It will repeat this and the cycle will continue until the 25 copies are completed.

If the unit is trying to use a CD recorder on your PC, please read the **Using Drive Assigner** section located on the next page of this guide for some steps to correct the problem.

Please observe the operation and verify that everything works smoothly. If anything does not work, back track and review your steps. If you cannot find the problem please call toll free 1-888-800-4041 and one of our technical support staff will gladly assist.

Using Drive Assigner

If Your Unit is trying to use CD/DVD Recorders on your PC, try the following:
Due to the fact that DiscJuggler is an open platform that looks at the entire PC system for
writers, it can sometimes try to assign your PC's internal writer to the autoloader.

Follow this procedure to eliminate this occurrence:

Select Start, All Programs, Padus DiscJuggler, and click on Drive Assigner.
DiscJuggler will review the system and display the devices that it has located. Select the
writers that at located in the Elite unit by clicking on the boxes beside the drives. Click on
Update and then OK when finished with your selection. This process will assign only the
recorders of the Elite to DiscJuggler. The assignment will remain set unless you run the
Drive Assigner and change your settings.

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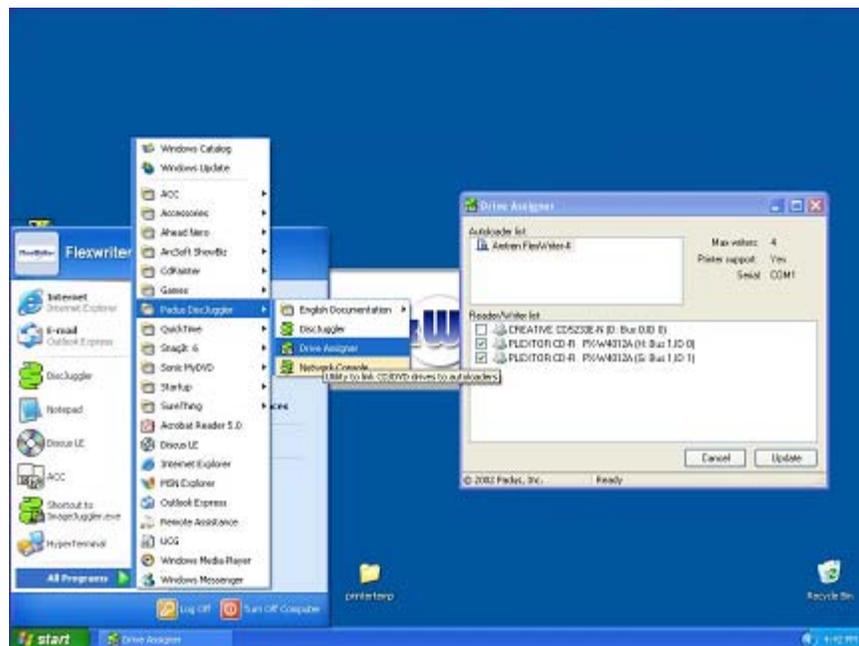
Troubleshooting the EliteMicro

The EliteMicro systems is comprised of 4 basic systems that all work together similar to a PC, Scanner and Printer configuration.

Generally any items that come up can be isolated to one of the following components:

1) PC System / Windows® Program
2) Loader Unit
3) DiscJuggler Copy Software
4) CD Printer / Labeling Software

If you have difficulty with any one of the four systems, you can run separate tests on each to verify and correct the problem.

On the PC System, click on the **MY COMPUTER Icon and view the connected components. Verify that the CDR/DVDR drives are accessible. If not, there may be a USB device conflict or cable connection problem.**

Run the DiscJuggler and view the explorer. Are all the components shown? Loader, Drives etc. if not then you may have to check the PC and hardware connection. The DiscJuggler has online help that can assist in solving most problems within the CDR Software.

If you have any problems that you cannot solve call our service line toll free 888-800-4041.