102005-510934-(01)





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Printing History

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FCC Compliance Statement: This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For Users in the United States: This product is intended to be supplied by a UL listed Direct Plug-In Power Supply marked "Class 2" or a UL listed ITE Power Supply marked "LPS" with output rated 12VDC, 4.5A or higher. 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:

- Re-orient 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.

Use of shielded cables is required to comply with the Class B limits of Part 15 of the FCC Rules. You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate and/or obtain warranty service for this equipment.

For Users in Canada: This digital apparatus does not exceed the Class B limits for radio noise for digital apparatus set out on the Radio Interference Regulations of the Canadian Department of Communications. Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

Note: To ensure the unit operates within FCC limits, the power supply should be kept at least 10 cm away from the metal case.

CAUTION!

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE EXTERIOR PANELS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. OPERATE THE UNIT WITH ONLY THE PROPER ELECTRICAL SPECIFICATIONS AS LABELED ON THE PRINTER AND AC ADAPTER.

CAUTION!

THIS PRODUCT CONTAINS A LASER DIODE OF A HIGHER CLASS THAN 1. TO ENSURE CONTINUED SAFETY, DO NOT REMOVE ANY COVERS OR ATTEMPT TO GAIN ACCESS TO THE INSIDE OF THIS PRODUCT. REFER ALL SERVICING TO QUALIFIED PERSONNEL. THE FOLLOWING LABEL APPEARS INSIDE YOUR UNIT:

CLASS 1 LASER PRODUCT LASER KLASSE 1

CAUTION!

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION.

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Interactive Feature in this PDF Document

There are interactive features that will allow you to jump to different locations within the document. Each listing in the Table of Contents is interactive. Place the cursor on either the words or the page number. A small hand with a pointing finger icon appears. Click on the line with the icon and the document will jump to that page. If you want to return to the Table of Contents, move the icon to the top of the page and click on the arrow marked TOC. Navigating through the Index is similar. Place the icon on one of the listings or page numbers, click on it, and it will move to that page. The text relating to the Index listing will appear in red. Returning to the Index can be done by clicking on the arrow marked Index.

THANK YOU...

...for purchasing the OptiVault[™]. The OptiVault and Retrospect together are the perfect professional backup and archival solution for servers and desktop computers.

A. CHOOSING A GOOD LOCATION

- Place the OptiVault in a location with adequate air circulation to prevent internal heat build up.
- Do not place the OptiVault near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

B. UNPACKING AND INSPECTION

While unpacking your OptiVault, inspect the carton to ensure that no damage has occurred during shipping. Make sure that all supplied accessories are included with your unit. The following items should be included:

- OptiVault
- Gray Plastic Input and Output Bins (Located inside the cardboard insert)
- Switching Power Supply with Power Cord
- One Three-Color (CMY) Ink Cartridge
- One Monochrome Black Ink Cartridge
- QuickStart Installer Disc
- USB 2.0 Interface Cable
- Warranty Card
- 10 Pack Primera TuffCoat Archival Media
- This Operator's Manual, Quick Start Guide and Other Printed Information

Save the carton and packing materials. They will come in handy later if you ever need to transport the OptiVault and/or any of its parts and accessories.

C. IDENTIFYING THE PARTS

Front Panel and Top

This illustration shows the Optivault, its Control Panel, Buttons, LED indicator lights, Input and Output Bins and other components.



The **Robotic Disc Transporter** moves discs from the Input Bin, to a CD/DVD Recorder, to the printer, and finally to the Output Bin.

The **CD/DVD Recorder** is automatically loaded and unloaded by the Optivault's Robotic Disc Transporter.

The **Recorder Tray Button** manually opens or closes the Recorder Tray. In normal operation, the in/out movement of the Recorder Tray is controlled automatically and this button is not used.

The **Control Panel** contains LED Status Lights and Buttons to control the Optivault.

The right **LED Status Light** indicates that Power is ON. The left LED Status Light is on to indicate that the cover is closed. They also blink in certain patterns to indicate an error or other condition of the Optivault. See Section 5 for a full explanation of the LED Status Light conditions.

The **Power Button** turns the Optivault's power OFF if pressed and held for five seconds. Press it quickly to turn power back on. When already powered on quickly pressing the power button will move the arm to the right or the middle to allow access to the recorder drive or the bins.

When the front cover is opened, the Ink Cartridge Button is used to position the Cartridge Carrier for easy ink cartridge replacement. When the front cover is closed, pressing the Ink Cartridge button will open or close the Printer Tray. (Must override cover lock sensor to simulate cover closed condition)

The **Input/Output Bins** are situated under the top cover of the Optivault. The bins will hold up to 25 discs. The right-side bin is the Input Bin for blank media; the left-side bin is the Output Bin for finished discs. **Only a total of 25 discs can be loaded into the input bin, output bin and drive at any one time.**

The **Reject Area** is where discs are dropped if the header information is not burned correctly or if the minimum size threshold is not met. (100MB). The discs slide down the ramp out in front of your Optivault.

The **Front Cover** is a durable plastic cover that will protect the Optivault from dust and interference.

The **Ink Cartridge Carrier** holds both a color ink cartridge (left-side pen) and a monochrome ink cartridge (right-side pen).

Rear Panel

This illustration shows the input ports found on the rear panel of the OptiVault:



The USB 2.0 Interface is connected to an open USB 2.0 port on your PC with the USB 2.0 cable, included with your Optivault.

The **Power Input Port** connects to the included 100V~240V 12V switching power supply.

D. PC SYSTEM REQUIREMENTS

Before getting started, it is important for you to verify that your PC meets the minimum system requirements.

- 1 Ghz or faster Pentium IV processor running Windows 2000 or *X*, Server 2000 or 2003.
- 512 MB or greater RAM
- Free hard drive space of at least 10 GB.
- Available USB 2.0 Port.

If your PC does not have at least these minimum system requirements, system performance may not be acceptable. Client software for other operating systems is available from the EMC Dantz website.

E. OVERVIEW OF ROBOTIC OPERATION

The following is a description of the complete sequence of the robotic arm, drive and disc tray during normal backup operation.

1. The Backup Appliance's integrated Robotic Disc Transporter will pick a disc from the Input Bin.



2. The Recorder Tray opens automatically and the Robotic Disc Transporter places a disc into the recorder.



- 3. The Recorder Tray then automatically shuts. Robotic Disc Transporter will automatically check the Input Bin to make certain that only one disc was picked. The software checks the disc to make sure it is blank and then burns header information to the disc.
- 4. If the header information burn was successful the Robotic Arm will pick the disc from the recorder and place it into the Printer.



- 5. Backup job information is then printed onto the disc. The title you choose is printed followed by a dash and the number this disc is in the backup set. For example the first disc in the backup set might be named 1-My Backup.
- 6. The Robotic Arm then moves the printed disc back into the recorder to write the files contained on the source volume.
- 7. Once the writing is complete the disc is moved to the output bin.



- 8. The process is repeated for each necessary disc in the backup set.
- 9. After all discs are written, the discs are picked from the left bin and placed in the right bin to simulate the original order.
- 10. Each disc is then picked and placed in the recorder for verification by the software and then placed into the left bin when finished.
- 11. After the last disc is verified it remains in the recorder so that it can be appended to during the next progressive backup of this backup set.

Section 2: Hardware and Software Set-Up

This section will describe the step-by-step process of setting up your OptiVault. This includes information on how to load the supplies (ink and disc media) necessary to start producing discs.

A. INSTALLING THE PC SOFTWARE

The Installer Disc has a menu that will guide you through the process of setting up your OptiVault. Please refer to the following for more information on each step:

- Place the Installer CD in your CD-Rom Drive. The Installer application should automatically launch in a few moments. If it does, proceed to Step 2. If it does not automatically launch, follow these steps:
 - Double-click the **My Computer** Icon, then double-click the icon of the appropriate CD drive containing the Software Installer disc
 - Double-click Installer.exe
- 2. In the Installer Application, click the **Standard Install** button. The Standard Install will guide you step-by-step through the installation process. As you complete each step, click the \rightarrow Next arrow. Steps 1-4 are shown in section B below as well as on the monitor. You may follow either to complete the setup.

B. HARDWARE SETUP

To connect your new Optivault, please do the following:

Be sure you have removed the packing tape and cardboard insert prior to applying power.

Step 1: Applying Power

- Locate the power adapter supplied with your Optivault.
- Place one end of the adapter cord into the power port on the rear panel of the Optivault.
- Unit will initialize for approximately 30 seconds.



Hardware and Software Set-Up 7

Step 2: Loading Media (Discs)

NOTE: Only a total of 25 discs can be loaded into the input bin, output bin and drive at any one time.

For reliable, consistent operation of your OptiVault, we strongly encourage you to use only genuine Primera TuffCoat Archival Media available at www.primerastore.com. There are documented quality differences between different brands of media. Primera has not researched the archival life nor can it support the recording characteristics and/or performance of other brands of optical media.

Refer to the following steps when loading discs in to the Optivault:



• Open the front cover of the Optivault

• The Optivault will automatically position the cartridge carrier and Robotic Disc Transporter to the center position allowing for easy access to the bins.



• Load the Input Bin (the bin located on the right-hand side of the Optivault) with up to 25 blank discs and place the bins on the mounting pegs.

Step 3: Installing Ink Cartridges

- Press the Ink Cartridge Button to move the Ink Cartridge Carrier to the load position and open the ink cartridge covers
- Remove each ink cartridge from its packaging
- Slowly remove the tape covering the cartridge's print head, being careful to avoid damaging the barcode label on the underside of the cartridge.



DO NOT TOUCH THE COPPER AREA!

• Insert the ink cartridges into the carrier, copper end first and snap the cartridge cover in place. Insert the color in the left holder, monochrome black in the right cartridge holder.



• Close the Optivault's front cover.

Step 4: Connecting the USB 2.0 Cable

Connect the Optivault to your computer with the beige USB 2.0 Cable.



After a few moments a found new hardware wizard will appear.



Select "Install the software automatically" and click **Next**. Make sure that you have your installation disc in a drive on your computer.

You may see a notice like the one shown below stating that the device has not passed Windows Logo Testing. Click **Continue Anyway** to continue installing the printer driver for your Optivault.

Hardware	2 Installation
4	The software you are installing for this hardware: Printers
	has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important.</u>)
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

In the installer application, follow the steps shown on your monitor to complete the installation of the Retrospect and SureThing software.

C. OPENING THE SOFTWARE FOR THE FIRST TIME

The first time you open the software a wizard will guide you through several steps to complete the setup. Follow the steps and click **Next** to complete the setup.

If you will be using the Exchange Database/Mailbox backup feature it is important that you enter the License code when prompted by the setup wizard to add more license codes.

Getting Started with Re	trospect	
	Would you like to add more license codes?	
	You can enter additional Retrospect add-on codes now or later (via Configure->Licenses):	
0011	O I do not wish to enter add-on codes now	
	I have additional add-on codes to enter	
0 04 14 010		-
0.1.00011		-
101-11-1		
DIGUE RA		
1.4.4.1 0.1.1	(Format: XXXX-XXXX-XXXX)	R
Retrospect.		
<u>H</u> elp	< <u>B</u> ack <u>N</u> ext >	Exit

The License Code is **HXN9-HJ4M-ANAJ-2TCX**.

It is also important that the user logged in to run Retrospect has rights to access the Exchange Server. You can set Retrospect to always run as a user with these rights or run as the loggedin user. In either case make sure the user has necessary rights to access the Exchange server.

Getting Started with Retrospect				
0011	What user account? To backup up servers, including SQL and Exchange, Retrospect must run under a user account with administrator access to all resources. Otherwise, Retrospect will run in the system account when automatically launched and unattended backups of databases and network resources may not work.			
Of 11 010 CONTRACTOR	Always run Retrospect as the specified user Liser: Password: Log on to: Run Retrospect as the logged-in user			
Help	< Back Next > Exit			

D. RELOADING MEDIA

Any time media is moved or removed from the OptiVault it is necessary to clear the media location memory before continuing backup operations. Use the following procedure each time you reload media:

1. Remove all discs from the backup set except for the last disc of each set. Put them in the left bin. Note: Burned discs could be in the right or left bin.

- 2. Reload blank media in the right bin so the total number of discs in the unit does not exceed 25 discs. Remember, the last disc may be located in the drive so don't forget to include it in your media count!
- 3. Open Configure on the left navigation menu. Click Devices.
- 4. Click on Primera OptiVault to Highlight it. Click on the Initialize Elements button to clear the media location memory.

=	Storage	Devices						
ſ	Status	Environment	Binding					
	8	P R B 2 >	(4)10(łô	9 P		2	
		D Primera OptiVault Plextor DVD DL - (Empty)	evice	-1		Initializ No med	e Elements (lia	(Ctrl+M)

Section 3: OptiVault Printer Driver

Once the Optivault software has been successfully installed, take a moment to familiarize yourself with the printer driver settings for your Optivault. Only the settings that affect the print quality of your discs are described below. You will see many other settings that will not need to be changed. The default settings of the Optivault printer driver will fit most printing needs. Please refer to the following steps to change or verify your printer driver options:

1. Click the **Start** button. For Windows 2000 point to **Settings** and click on **Printers**. For XP Professional click on **Printers and Faxes**. For XP Home click on **Control Panel**, then click on **Printers and Other Hardware**, then click on **Printers and Faxes**.

Click on the **OptiVault** icon with the right mouse button and select **Printing Preferences**.



Resolution

Select the appropriate print quality option for your image. Keep in mind that Normal 600 provides the lowest quality but fastest print, and that Ultra Photo 4800 provides the highest quality but slowest print.

Cartridge Type

Select **Color** to print using only the color cartridge. The **Monochrome Black** setting prints using the **Monochrome Black** cartridge only.

Ink Saturation

This option controls the ink saturation of the printed image. Please note that higher ink saturation results in higher ink usage. This will reduce the amount of discs produced per cartridge.

Enable Ink Low Warning

This setting lets you enable or disable the warning from the printer to tell you when the ink cartridges are getting low.

Ink Levels and Cartridge Maintenance

Select this button to display the current ink levels as well as options for cleaning and changing cartridges.

Select **Clean** button to send a simple test pattern to the printer. Be sure to have a disc in the OptiVault's input bin and the front cover closed.

Select the **Change** button to install a fresh, new ink cartridge or to switch back and forth between previously used cartridges. After

Cartridge Maintenance & Ink Levels					
Color	Black (Dye)				
					
Remaining = 96 %	Remaining = 100 %				
Change	Cartridge(s)				
	petails				

the cartridge has been replaced according to the instructions in section 2B, select either the **New Cartridge Installed** button or the **Old Cartridge Installed** button accordingly. These selections are necessary for the printer to accurately keep track of ink cartridge ink levels.

Select the **Details** button for information on the drivers, firmware, alignment and number of discs printed with your Optivault.

Alignment Calibration

The Alignment Calibration allows you you create a test print that will provide you with values to configure your printer for Bi-Di- Printing and to align the color and black cartridges for Color+Black printing. If Bi-Di Printing is enabled, or if you use Color+Black as a cartridge type in the driver settings, it is important to perform this calibration *every time you change a cartridge*. To print, click the **Alignment Calibration Properties** button then click **Yes**.. The print will look like this:



Section 4: Using Retrospect

A. PERFORMING A BACKUP

1. Load Media into the right bin of the Optivault.

IMPORTANT NOTE ON MEDIA: Only a total of 25 discs can be loaded into the input bin, output bin and drive at any one time. For reliable, consistent operation of your OptiVault, we strongly encourage you to use only genuine Primera TuffCoat Archival Media available at www.primerastore.com. There are documented quality differences between different brands of media. Primera has not researched the archival life nor can it support the recording characteristics and/or performance of other brands of optical media.

- 2. Open Retrospect
- 3. Click on the **Backup** button on Backup Overview window or on the left navigation menu.

📕 Backup Overview		×
Backup		
Backup	Progressive Backup of selected source volumes Volumes can be disks, folders and network shared folders. Storage media are organized into Backup Sets, whose contents are tracked in Catalog Files. A Backup Set is assigned a name so you can identify it for subsequent backups or restores. After its first backup, Progressive Backup only needs to back up new or changed files.	

4. This screen will automatically display information about the last backup that was performed. You can change this information by selecting "Let me change these settings". When you click **Next** the wizard will guide you through all the steps necessary to setup a backup job. For this example we will use the Wizard Mode. Click the **Help** button on any step in Wizard Mode for more information on that step. To bypass the wizard, click **Switch to Advanced Mode**. Advanced Mode allows you to jump to specific settings you want to change without going though the wizard. Additional settings are also available in Advanced Mode which are not available in Wizard Mode.



Wizard Mode

🗿 Imr	mediate Backup		×
ł	Ready to execute Verify your choices, the	n didk Backup.	
2			
	Sources	🚇 Local Disk (C:)	
	Destination	🕲 Backup Set A	
	Selecting	All Files Except Cache Files	
	Preview	(Click here to view or select files.)	
	Options	Verification on Don't back up Windows security information from workstations Back up open files	
Use	Any Execution unit	Switch to Wizard Mode Schedule Backup Cance	i.

Advanced Mode

 This screen allows you to choose preset volumes that are commonly backed up or a specific location. Select "Let Me Choose". Click Next.



6. Choose the specific location you would like to back up. For this example choose Local Disk (C:). To backup other computers on the network choose "My Network Places". To choose multiple locations, hold down the control key and click on each item you would like included in the backup. Click **Next**.



If you would like to backup only specific folders on a computer/server, select the destination and then click **Show folders**. Choose the folder or folders you would like to define as volumes. Click **Define**.

🖻 Subvol	lume Selection	_ 🗆 🗙
	efine a folder as a volume will be available everywhere in the progra	am.
Look in:	🔄 Default User	¥ 🗈 🏝
App Coc Des Fav Loc My Net Prin Rec	vlication Data okies ktop rorites al Settings Documents Hood tHood rent	
Star	ioro rt Menu iplates	
		Open
		Define Cancel

 Choose the type of files you would like included in the backup. Uncheck anything you would like to exclude. More specific exclusion options are available in Advanced Mode. Click Next.



8. Choose the destination by selecting the Optivault and clicking **Next**.

📟 Backup Wizard			X
	Where do you want the backup to Iape, CD, DVD Hard drives on the local computer	be stored? or on the network	
All the second se	Device	Status	Location
0011	🖃 🗐 Primera Opti¥ault		USB CD:13
- 01 14 010 2 1 000 1 1	n 🔊 Plextor DVD DL	No media	USB CD:13
191.9109 8.0.001	<		~ >
Retrospect.			
Help	< <u>B</u> ack	ext > Start Nov	Cancel

9. You may schedule a backup or choose to run it now. Select Now and click **Next**.

🔳 Backup Wizard		×
	When do you want to back up?	
0011 - 61 11 010 - 1100011	⊙ N <u>o</u> w ○ Later (on a schedule)	
Retrospect.	< Back Next > Start Now Cance	

- 10. Name your Backup Set using this screen. Uncheck Use existing if you would like to create a new backup set.
- **Note:** See Section 4C for information on saving Backup Source and Destination information as one Backup Script.

📰 Backup Wizard		×
0011	Name your Backup Set Select an existing Backup Set, or type a name to create a new Backup Set	:.
- 91 11-010 9 1290011 9 1290011	Backup Set Name: Backup Set A 🗸 V Use Existing	
Retrospect.	< Back Next > Start Now Ca	ncel

11. Decide whether you would like to compress data. Data compression saves space in the Backup Set by compressing files before copying them into the Backup Set. Files are automatically decompressed back to their original state when restored. Backups (and restores) from Backup Sets using data compression are slower than those that do not. Click **Next**.



12. Choose a security policy if desired. Choosing a security password other than "None" will encrypt the data on disc and require the user to enter a password to perform a restore. Click the **Help** button for more information. Click **Next** to continue.

🚍 Backup Wizard	X
	Would you like to encrypt your backup sets?
	Establish the security policy for the new Backup Sets. Backup Set Security:
	None
0011	Password:
- 01 11-010	<u>C</u> onfirm:
0 1 00013	Would you like Retrospect to <u>r</u> emember this password?
7777874	
120 M 1 M 1	Please Note: The persword and level of encryption cannot be changed after the set is created. If you former
Retrospect	your password, you will not be able to access the Backup Set.
Help	< Back Next > Start Now Cancel

13. The final screen of the Wizard Mode will show a short summary of your chosen settings. Click **Start Now** to start the backup.

🔳 Backup Wizard	X
0011	Backup Summary Source: @ Local Disk (C:) Selecting: 신 All Files Except Cache Files Destination: ③ Backup Set A
6 01 11 0 to 10 000 Retrospect.	Click Start Now to begin backing up.
Help	< Back Next > Start Now Cancel

14. The software will first scan all the data to be backed up and then start the burn process. See section 1F for a description of the actual robotic burn and print backup process.

While the backup is executing the Activity Monitor is displayed. If any errors are encountered click the **Events Tab** to view the event log. See section 4H for more information on event log errors.

Proactive	Scheduled	Waiting	Executing	History Events				
Date 8/9/2005	Time 10:55:52 AM	Immediate not in use	Script Backup <i>(Local Dis</i>	Erro k (C:)) 0, 0	Perf 0.0	Remaining	l	
		not in use not in use						
mmediate B jource Destination	ackup: Scannir @Local Disk @Backup Se	ng 🕮 Local I (C:) t A	Disk (C:)					
emaining	540	7 files	4.2 GB					
ompleted		0 files	zero KB	00:00:00 sec	0.0	MB/min Pause		L <u>og</u>
Dan't allow or								

B. RESTORING A BACKUP

In the event that you need to restore a backup follow these steps:

1. Locate all of backup discs in a backup set. Discs will be titled according to the following example. If you have 5 discs in your backup set the title of each will be 1-My Backup, 2-My Backup, 3-My Backup, 4-My Backup and 5-My Backup. The final disc in the backup set may already be in the recorder drive. If you store your backup discs offsite load them into the left bin of the backup device in this order:



5-My Backup or the last disc in the backup set should be placed in the recorder drive of the Optivault.

- **Note:** Whenever you move or remove media follow the reloading procedure in section 2D.
 - 2. Open the Software. Choose **Restore** from the navigation menu on the left.



Using Retrospect 25

- 3. Click Next past the introduction screen.
- 4. You will be presented with a list of recently performed backups from which you can restore. Select one and click **Next**.



5. If you have chosen to progressively backup files you will have several snapshots or time points to restore to. Choose one. Click **Next**.

🔳 Restore Wizard				×
	Which Snapshot do yo RetrospectTest contain Snapshot with the date ar To choose a Snapshot not	u want to rest is the Snapshots id time you wish shown below, cl	ore from? shown in the list below. Select a to restore, and then click Next. lick More Snapshots.	
0011 - 91 14 0 10 - 1900 11	 Retrospect Test Retrospect Test Retrospect Test 	PTimmins PTimmins PTimmins PTimmins	8/9/2005 12:50:22 P 8/9/2005 12:48:45 P 8/9/2005 12:17:20 P	গ
Retrospect.			More Snapshots	
Help		< <u>B</u> a	ack <u>N</u> ext > Cancel	

6. Choose the location you would like to restore to on your hard drive or network. The most common choice here would be Original Location. Click **Next**.



7. Choose **Restore Files and Folders** to choose the files you would like to restore. Choose **Restore everything...** to restore all files. This option will cause the next step to be skipped. In this example we will choose **Restore Files and Folders**. Click **Next**.



8. Choose the files and folders you would like to restore. Click **Next**.

Restore from Backup:RetrospectTest Marking files for restore Highlight desired files, then click I to mark or unmark. Marked: 3 files, 460 K I is the click I to mark or unmark.					
C:\Documents and Settings\ptimmins\ My Documents\ Retrospect Test\ 1 files, 29					
~	Flags	Name	Size	Modified	
	✓ ◆	Retrospect Test			
	•	40percent.JPG	366 K	06/09/2005 2:57:04 PM	
	•	Common Parts.doc	65 K	04/22/2005 8:21:50 AM	
	•	■ Kogit-ping	23 K	10/01/2004 11:39:33 AM	
~					

9. Choose whether you would like to replace matching files. Click **Next**.

🔳 Restore Wizard	×
	Replace matching files?
	When the restore destination already contains files you selected to restore, you can choose to replace those files with the ones from Backup Set. When do you want to replace matching files on the destination?
0011	⊖ Ne <u>v</u> er
01 11 010	⊙ <u>O</u> nly if the Backup Set file is newer
	⊖ <u>A</u> lways
Retrospect.	
Help	< <u>B</u> ack <u>N</u> ext > Cancel

10. The final screen before you start the restore summarizes your restore settings. Click back to edit any settings. Click **Start** to start the restore.

C. USING BACKUP SCRIPTS

Using Backup Scripts is an easy way to save all the settings associated with several different backup jobs. Use this feature if you would like to schedule backups on several different volumes on a regular basis.

- 1. Choose Manage Scripts from the left navigation menu.
- 2. Choose to edit an existing script or create a new one. For this example we will choose to create a new script.



Choose the type of script you would like to create. For this 3. example we will choose a standard backup script.

Backup	Automate backup operations
Duplicate	Fast copying of a desktop disk or folder
Archive	Copy files with optional move
Restore	Automate restore operations
Restore Database	Automate database restore operations
Restore Mailbox	Automate mailbox restore operations
Transfer Backup Sets	Copy files between Backup Sets
Transfer Snapshots	Copy selected Snapshots between Backup Sets
Groom	Groom selected Backup Set

<u>o</u>ĸ

Type the name of the script. 4.

Retrospect		
Please enter a name fo	r the script:	_
	ß	OK Cancel

At this point you are brought to a standard backup 5. window in advanced mode. Switch to Wizard mode and use the steps in section 4A to complete the backup or setup your backup job in Advanced Mode.

🗿 Backup: My Computer		X
🍈 🍰 🍵 abl 🖌 🎯	Ð	
Sources	(No volumes selected)	
Destinations	(No Backup Sets selected)	
Selecting	All Files	
Options	Verification on	
Schedule	(No destination Backup Sets selected)	
, Use Any Execution unit	Switch to Wizard Mode	OK Cancel

To edit your backup script, click **Manage Scripts**, select the name of the script and click **Edit**.

D. PERFORMING AN EXCHANGE SERVER BACKUP

The Optivault is especially useful for backing up Exchange. Below are the steps necessary to perform this function.

Before setting up the Exchange backup make sure that you have the necessary Exchange backup license installed. Go to the Window Menu – choose License Manager.



Make sure the Exchange Database/Mailbox Backup license shows 0 used, 1 available.

l	🕅 License Manager		_ 🗆 X
	Name: Admin Organization:		
	Name	Version	Status 📃 🔺
	🖃 🗃 Storage Devices		
	🙀 All devices	7.0.326	
	🖃 🖳 🖳 Unix Client Support	7.0.326	
	🔤 🗐 Linux/Solaris Client License		
	🖃 📃 Novell NetWare Client Support	7.0.326	
	🙀 Novell NetWare Client License		
	🖃 🗐 SQL Database Backup		0 used, 1 available
	🔤 SQL Backup Add-on	7.0.326	=
	🖃 🔁 Exchange Database/Mailbox Backup		0 used, 1 available
	🔲 🖼 Exchange Backup Add-on	7.0.326	~
	Register		<u>A</u> dd <u>P</u> urchase

If you do not have the license installed click **Add** and enter code provided in section 2D.

- 1. Install the client software on the Exchange server using the instructions in section 4F. You will need it to add the client in Step 5.
- 2. Make sure the user logged into Retrospect has necessary rights to the Exchange server. The server may not appear as an available source unless the user has rights to the server.
- 3. Add the Exchange Server as a client. Open Configure on the left navigation menu. Choose **Clients**. Click **Add** on the screen below:



4. Retrospect will automatically display the clients with the client software installed. If you do not see the client see section 4F for instruction on how to directly add the client.

💥 Live Network	_ 🗆 X
Clients by Piton Name Service using multicast	
🔎 ptechexchg	
🗐 ptechsql	
Ad <u>v</u> anced <u>I</u> est <u>A</u> dd	Done

5. Highlight the Exchange server client and choose **Add**. You will be prompted for a password.

Retro	spect		
(j)	Connecting to <u>ptechexchq</u> Please enter the password:		
		<u>o</u> k	Cancel

6. Go to the Automate menu – choose Manage Scripts.



7. Click the **New** button to add a script.

8. Choose **Backup** as the script type.

Backup	Automate backup operations
Archive	Copy files with optional move
Destore	Copy mes with optional move Automate rectore operations
Restore Database	Automate database restore operations
Restore Mailbox	Automate mailbox restore operations
Transfer Backup Sets	Copy files between Backup Sets
Transfer Snapshots	Copy selected Snapshots between Backup Sets

- 9. Name your backup script.
- 10. Switch to Advanced Mode if you are in Wizard Mode. Click **Sources**.

🗐 Back	cup: Exchange	
ð	🗎 🍙 abl 🗸 🖉	\$ []
	Sources	(Na valumes selected)
	Destinations	(No Backup Sets selected)
	Selecting	All Files
	Opt <u>i</u> ons	Verification on
	Schedule	(No destination Backup Sets selected)

11. You may back up the Exchange Server and the Exchange Mailboxes. In order to backup mailboxes you must add them to the Mailbox list. To add specific Mailboxes Highlight the Exchange Mailbox and click **Mailboxes...**



- **Note:** While Mailbox data is contained in the backed up Server database, it is recommended that you back up specific Mailboxes in addition to the server. This makes it much easier to restore specific mailbox items if they are accidentally deleted by the user.
 - 12. All available Mailboxes will be displayed. Highlight one or several and click **Define**.



13. You may also backup items within the specific user mailbox. In this example only the Administrator Mailbox was defined. Highlight the specific mailbox and choose **Subvolume...**



14. Highlight the items in the Mailbox you would like to backup. Choose **Define**.

🖻 Subvolu	ume Selection			- 🗆 ×
	fine a folder as a volume will be available everywhere	: : in the program.		
Look <u>i</u> n:	Administrator	_	-	
Cale	ndar :acts ted Items ts			
Inbo Jour Junk Note	x nal :E-mail :S :00x			
💼 Sent	: Items s			
		_	_	_
			ন	pen
			Define	Cancel

15. After you have defined all mailboxes and subvolumes, you are ready to add them as Sources. Highlight (Control Left Click) each of the items you would like included as sources. Click **OK**.



16. Set the Destination, Selecting and Options as described in section 4A. Set the schedule according to the suggested backup strategies described in section 4E.

🛢 Backup: Exchange					×
👌 🍰 🍵 abl 🖌 🖉	7				
Sources	🕞 First Storag	e Group <i>on</i> or <i>on ptech</i>	ptechexchg exchg		
Destinations	🕲 Exchange				
Selecting	All Files				
Options	Verification on Don't back up V Back up open fi	/indows sec les	urity information from workstations		
Schedule	Scheduled exec	utions			
	Today at 10:00	PM	Normal backup to 🌚 Exchange		
	10/5/2005	10:00 PM	Normal backup to 🕲 Exchange		
	10/6/2005	10:00 PM	Normal backup to 🌚 Exchange		
	10/7/2005	10:00 PM	Normal backup to 10 Exchange		
	10/11/2005	10:00 PM	Normal backup to		
Use Any Execution unit	Switch to	Wizard Mod	<u>e</u>	<u>o</u> k	Cancel

E. BACKUP STRATEGIES

Often it is beneficial to develop a backup strategy to backup important files. Below are a several strategies well suited to the OptiVault.

E1. Hard Drive to Hard Drive to Optical Disc (DVD)

This strategy involves two scripts. The first script "Hard Drive" will backup information from any source to a hard drive on your network. It is recommended that you dedicate a large, fast hard drive for this purpose.

The second script "Optical Disc" will backup selected or filtered information to a permanent place. In this example we filtered all documents except MS Word documents. Schedule the hard drive backup five times a week and the Optical disc backup once a week. The backup strategy allows you to keep all data instantly accessible and important data safely stored on permanent transportable media.

Follow these steps to implement this strategy:

1. Setup the "Hard Drive" script according to the instructions in 4C except for one difference. Set the destination Backup Media to Disk instead of CD/DVD.



2. Name your backup set destination and select the hard drive by clicking the **Select** button.



 Choose what you want to do when the hard drive becomes full. Choose "Keep according to Retrospect's defined policy" to delete old files only as it becomes necessary to do so.



4. Schedule this script to run Monday through Friday.

Hard Drive:Schedule	
Next execution: Normal backup to 🖶 <u>Harddrive</u> Today at 10:00 PM	
Normal backup to 🐨 <u>Harddrive</u> Every .MTWTF., starting 10/3/2005 at 10:00 PM	Modify
Skip scheduled executions	
	OK Cancel

5. To create the second script go to the Automate menu - choose **Manage Scripts**. Click **New**.

ß	Scripts	$-\Box \times$
[*`□ C ab × Q	
	I Hard Drive (Backup) 以 I My Documents (Backup)	<u>N</u> ew
		Edit

6. Choose "Transfer Backup Sets" as the type of script.

Retrospect		
Create what kind of	f script?	
Backup	Automate backup operations	
Duplicate	Fast copying of a desktop disk or folder	
Archive	Copy files with optional move	
Restore	Automate restore operations	
Restore Database	Automate database restore operations	
Restore Mailbox	Automate mailbox restore operations	
Transfer Backup Sets	Copy files between Backup Sets	
Transfer Snapshots	Copy selected Snapshots between Backup Sets	
Groom	Groom selected Backup Set	
	<u> </u>	Cancel

7. Name your script



8. Select the Source by clicking the **Source** button.

🗐 Transfe	🗿 Transfer Backup Sets: Optical Disc		
j j	🛉 👌 🍙 abl 🖌 🕸 🕄		
	Sources	(No Backup Set selected)	
	estination	(No Backup Set selected)	
	Selec <u>t</u> ing	All Files	
	Options	Verification on	
	Schedule	(No destination Backup Sets selected)	

9. Select which backup set you would like as your source. Choose the backup set you designated as your destination in steps 1-4.



10. Create a new backup set as your Optical Disc backup set. Select it as your destination.

Backup Set Selection Destination Backup Set for transfer Click Create New for a new Backup Set. Click	k More for others.	
Image: Constraint of the second se	9/9/2005	More Create <u>N</u> ew
	C	<u>O</u> K Cancel

11. You may want to filter out certain file types such as mp3 or video files. You may also want to include only certain file types such as word documents. This can reduce the size of your optical disc backup set. In this example only word documents were included in the transfer. Click **Selecting** to filter out or include certain file types or locations.

g	Transfer Backup Sets: (ptical Disc
[🏜 🚖 abl 🗸 💈	= ?
	Sources	🖬 Harddrive
	Destination	🕲 Optical Disc
	Selecting	Office Documents
	Options	Verification on

12. Finally, schedule this script to run once a week on a Friday. All but the last disc in this backup set can be stored offsite.

Optical Disc:Schedule	
Next execution: Normal transfer to 🕸 <u>Optical Disc</u> 10/7/2005 10:00 PM	
Normal transfer to <a>> Optical Disc Every Friday, starting 10/7/2005 at 10:00 PM 	<u>A</u> dd
	Modify
	Delete
	R
Skip scheduled executions	
	<u>Q</u> K Cancel

E2. Rotating onsite and offsite

This strategy involves two scripts. The first script "Week 1" will back up information from your source to optical disc backup set named "Week 1". This script will be scheduled to run Monday through Friday every other week.

The second script "Week 2" will back up information from the same source to a different optical disc backup set named "Week 2". This script will be scheduled to run Monday through Friday every other week starting the next week. "Week 1" and "Week 2" would rotate backing up the same data every week.

Using this strategy you can take the "Week 1" backup set of discs to secure offsite storage during "Week 2" backups and vice versa for the "Week 2" backup set when "Week 1" is running. During the first run each week the backup set will catch up to the last one using progressive backup technology. Follow these steps to implement this strategy:

- Setup both backup scripts using the instructions in section 4C. The source for each set will be the same. The destination will be different.
- 2. Set the first week to run Monday through Friday starting on a specific Monday. Set the weeks to "2" so that the backup occurs every other week.

Week 1:Day of	Week
Do Normal back starting 10/3/20	up to 🕲 <u>Week 1</u> Every other week on .MTWTF., 05 at 10:00 PM
<u>S</u> tart:	10/3/2005 Mon 10:00 PM
Run on:	☐ Su <u>n</u> day ✔ Monday ✔ Tuesda <u>y</u> ✔ We <u>d</u> nesday ✔ Thursday ✔ Friday ☐ S <u>a</u> turday
Wee <u>k</u> s:	2
Action:	Normal
	QK Cancel

3. Set the second week to run Monday through Friday starting one week later. Set the weeks to "2" so that the backup occurs every other alternate week.

Week 2:Day of	₩eek	
Do Normal backu starting 10/10/20	o to 🕲 <u>Week 2</u> Every other week on .MTWTF., 05 at 10:00 PM	
<u>S</u> tart:	10 /10 /2005 Mon 🗘 10 :00 PM	
Run on:	 Sunday Monday Tuesday, Wegnesday Thursday Friday Saturday 	
Wee <u>k</u> s:	2	
Action:	Normal	
	OK Cancel	

E3. Progressive daily - New weekly

This strategy involves one script. This script will backup information from your source to your backup set. Schedule a normal progressive backup Monday through Thursday. Schedule the same script for a Full backup every Friday. Each will have separate names. If the backup set is named My Documents, the new Full backup will be named My Documents-001. Each full backup will add a number after the name - My Documents-001, My Documents-002, etc. You may extend this schedule so that a full backup only occurs once a month or at whatever time you want. This strategy is useful to reduce the size of your backup set. Once the full backup occurs, the progressive backup starting Monday will use full backup as starting point. In other words you can take the previous Friday - Thursday set offsite because they are no longer needed in the new set.

Follow these steps to implement this strategy:

- 1. Setup a backup script using the instructions in Section 4C.
- 2. Schedule the script to run Monday through Thursday as shown below. Set the Action to Normal (default).

My Documents	s:Day of Week			
Do Normal back starting 10/6/20	up to 褻 <u>My Documen</u> 005 at 11:00 PM	<u>its</u> Every Mon/Tue/W	ed/Thu,	
<u>S</u> tart:	10/ 6/2005 Thu	11:00 PM	1	
Run on:	Sunday ✓ Monday ✓ Tuesday ✓ Wednesday ✓ Thursday Friday Saturday			
Wee <u>k</u> s:	1			
Action:	Normal	*		
			<u>о</u> к	Cancel

3. Add another schedule to the same script by clicking the **Add** button. Set this script to run on Friday. Set the Action to New Backup Set.

My Document	:Day of Week	
Do New Backup starting 10/7/2	Set backup to 🕸 <u>My Documents</u> Every Friday, 05 at 10:00 PM	
<u>S</u> tart:	10/3/2005 Mon 10:00 PM	
Run on:	☐ Sunday ☐ Monday ☐ Tuesday ☐ Wegnesday ☐ Thursday ☐ Friday ☐ Saturday	
Wee <u>k</u> s:	1	
Action:	New Backup Set	
	<u>OK</u> Cancel	

4. Your final schedule should look like the screen below:

My Documents:Schedule	
Next execution: Normal backup to 🕲 <u>My Documents</u> 10/6/2005 11:00 PM	R
Normal backup to ③ <u>My Documents</u> Every Mon/Tue/Wed/Thu, starting 10/6/2005 at 11:00 PM	<u>A</u> dd
New Backup Set backup to 🚳 <u>Mv Documents</u> Every Friday, starting 10/7/2005 at 10:00 PM	Modify
	Delete
	<u>Q</u> K Cancel

F. ADDING CLIENTS

After you register with EMC Dantz you will be provided a license code to unlock two free clients for use with desktop computers. Once you receive the license code, open the Retrospect software. Go to the Window Menu - choose **License Manager**.



Click Add... on the License Manager Window

🛱 License Manager 📃 🗖 🗙			
Name: Patrick J Timmins Organization:			
Name	Version	Status	
🖃 🚭 Application	7.0.326	OEM Disk-to-Disk	
- 🛱 OEM Disk-to-Disk (H7F2-QRFW-HU3B-HW5B)			
🚇 Backup Clients		(not licensed)	
🖃 🚽 Disaster Recovery	7.0.326		
🔲 🖼 Disaster Recovery Add-on			
🗅 Open File Backup		(not licensed)	
F Proactive Backup	7.0.326		
🔲 🖼 Proactive Backup Add-on			
🖃 🗃 Storage Devices			
🙀 Non-tape devices	7.0.326		
🖃 🖳 🖳 Unix Client Support	7.0.326		
🔤 🐺 Linux/Solaris Client License			
🗐 SQL Database Backup		(not licensed)	
📴 Exchange Database/Mailbox Backup		(not licensed)	
Register		Add Purchase	

Enter your license code and click **OK** to add the license.

Retrospect	
Please enter	the new license code:
\forall	
	OK Cancel

NOTE: It is possible to backup specific shared files and folders on desktop computers connected to your network without installing clients. However, without backup clients, it is not possible to backup the system state necessary for a complete operating system restore.

To install clients on a PC

Insert the installation disc. Choose **Custom Install** from the main installer window. Choose **Install Retrospect 7.0**. From the Retrospect install windows choose **Install Retrospect Client.**



During the install you will be asked to choose a password. Remember it, you will need it to backup the client.

To install clients on a Macintosh

Go to the EMC Dantz website. www.emcdantz.com Browse to the Support area - choose **Updates** - Choose the **Mac client**. Download and install the client.

During the install you will be asked to choose a password. Remember it, you will need it to backup the client.



Note: This client installation can be installed on as many desktop or server computers as you would like included in a backup. The installer is the same for servers or desktops. However, the Retrospect software license manager will only allow you to backup to two of the installed desktop clients. To purchase additional desktop client or server client licenses, contact your reseller or EMC Dantz.

Add the Client to the Backup Client List

1. Before you can backup a client you need to add the client to the Backup Client List. Open Configure on the left navigation menu. Choose **Clients**. Click **Add** on the screen below:



2. Retrospect will automatically display the clients with the client software installed.

辩 Live Network	- 🗆 X
Clients by Piton Name Service using multicast	
🔍 pterbexcha	
ptechsql	
Advanced Test Add	Done

3. Highlight the client and choose **Add**. You will be prompted for a password.

Retrospect	
Connecting to <u>ptechexchq</u> Please enter the password:	
	OK Cancel

4. If you do not see the client on the list click the **Advanced** button.

💥 Live Network 📃 🗖	×
Clients by Piton Name Service using multicast	
ptechexchg	
💷 ptechsql	
Adyanced Iest Add Done	<u>כ</u>

5. Now click on **Direct**. Type in the IP address or DNS of the client computer. Click **Add**.

💥 Live Network		(
Interface: The Default Content Conte	Add backup client by direct name/address Enter the backup client address, then click Add: [10:10:10:145] You may use a DNS or WINS name, or a numeric address (like 192:168.6.254)	
	Iest Add Done	

6. If Retrospect finds the client, you will be prompted for a password. You will be asked to confirm the name of the client. Client properties will be displayed. Click **Done**.



7. You will now see clients you added in the Backup Client List in the sources window.

🚍 Source Selection	_ 🗆 🛛
Select source volumes for backup Click Subvolume to select individual folders.	
🏝 🦉 📨 🛱 🏷 abl 🖓 🗙 🕄	
B My Computer Decal Disk (C:) My Documents My Network Places Backup Clients PRIMERA-D84TEST Decal Disk (C:) Source Groups	My <u>N</u> etwork

G. PROGRESSIVE BACKUP

Progressive

When Retrospect performs a backup for the first time everything selected from the source is backed up to the Backup Set. Progressive Backup means that every time you backup after the first time, Retrospect intelligently copies only files that are new or have changed since the previous backup to a Backup Set. You don't have to specify whether you want a "full" or "incremental" backup. Retrospect, by default, copies any and all the files it hasn't already backed up. For this reason the last disc written to in the backup set is left in the recorder. If not many files have been added or changed and if the backup is performed frequently, it is very likely that the last disc will stay in the recorder through several backups cycles of this set.

H. VIEWING SYSTEM ERRORS

If Retrospect ever encounters a problem in the backup process the error is recorded in the event log. During a backup, the activity monitor is displayed. To view the event log click on the **Events Tab** at the top of the Activity Monitor.



In this example the cover on the Optivault's front cover is open. Notice the red X next to the error. Stror You can easily scan the event log for this error symbol to find the reason your backup job has not completed.

If you suspect that the software is not communicating with the Optivault, you can check the Optivault status by clicking on **Devices** under Configure on the left navigation menu. If the Optivault is communicating correctly, Primera Optivault will be displayed with the drive model shown underneath.



If the media request dialog appears on top of the activity monitor during a job (see screen capture below) and you are sure the media asked for is in the OptiVault, use the procedure in section 2D, step 3 and 4 to Initialize Elements. This will cause the OptiVault to immediately search for the media and continue the backup job.

۰.	Backup Set C	
	Please insert the Backup Set member: Name: 1-Backup Set C If disc is unavailable, please click Choices . (All data will probably fit on this disc)	
Γ	Status Environment	
	▆▕▛▕▛▐▖▏ዸ▓ዸ▏҈ӥ▐▖▖▖▋₿▐	F [?
	Device	Status
	Primera Opti¥ault Bextor DVD DL O (Empty)	No media

Section 5: Interpreting the Optivault's Indicator Lights

The Power and Busy LED indicator lights located on the top of the Optivault can tell you a lot about what is happening inside the Optivault. To accurately interpret what it means when these lights are on, off, or flashing, please refer to the following:

Power LED (Ink Cartridge LED	Optivault
on solid	off	Cover is open
on solid	on solid	Is ready to receive job.
both lights are blinking alternately with one another		Waiting for a cartridge to be installed and the lid to be closed. (See section 2-E).
on solid	flashing rapidly	The printer tray or ink cartridge carrier has stalled. Open and close the cover to retry the operation.
flashing rapidly	on solid	The Optivault has a cartridge problem. Check to make certain that the cartridges are installed correctly and that the bar code labels on the underside of the cartridge are not damaged.
repeating pattern of both lights flashing in unison, then one light momentarily on solid.		This indicates low ink warning. If the left light stays solid after the flash, the Color cartridge is low. If the right light stays on after the flash, the Black Monochrome cartridge should be replaced.

Section 6: Maintenance and Troubleshooting

The Optivault is designed to operate for extended periods of time with very little attention. In fact, no regular maintenance is recommended other than cleaning the outside case.

NOTE: Do NOT attempt to oil or grease the Optivault's Robotic Arm shaft or other components. You will likely cause more harm than good! Any moving parts are designed to operate for the life of the machine with no additional lubrication required.

A. CLEANING THE OPTIVAULT

Use a clean, lint-free rag with a small amount of ammonia window cleaner to clean the Optivault's outside case and trays. This type of cleaner is very effective on inks that may accumulate on the printer tray. Stronger cleaning solutions are NOT recommended because they may damage the paint and plastic materials from which the parts are manufactured.

Always disconnect your Optivault's power cords before cleaning. Resume operation only after the surfaces are completely dry.

B. PERFORMING A ROBOTIC SELF-TEST

To ensure that everything is working properly, a Self-Test feature is built in to your Optivault. In this mode, the Robotic Disc Transporter will go through the motions of picking and placing a disc to ensure proper working order. This test may be performed without connecting the Optivault to the computer. Perform the test by doing the following steps:

- Load some discs into the Input Bin
- The cover must be closed for this operation to complete. However, in order to access the buttons you must open the cover. To get around this problem simulate closing the cover by activating the cover lock sensor. You may do this by putting an object such as a folded piece of paper in the slot where the lock would normally be located.
- With the Optivault turned on, press the Cartridge Button
- While holding the Cartridge Button, press the Power Button (¹) until the robotics start to move.

- Release both buttons
- To stop the test, wait until the disc has moved to the Output Bin and press the Power Button.

C. CLEANING THE INK CARTRIDGES

It may be necessary to clean the ink cartridge nozzles if you notice reduced print quality, or if you suspect an cartridge nozzle has become slightly dried out or clogged. Remove the cartridges and blot the nozzles on a wet paper towel until you start to see all three colors evenly appearing on the paper towel.

D. TECHNICAL SUPPORT

If you have difficulties in operating the Optivault use the procedures in this manual and the additional resource listed below:

Source	Location
Primera Knowledge Base	www.primera.com/knowledgebase.html
SureThing Software Help files	Open the software. Click on the Help Menu - Contents
Retrospect Software Help File	Open the software. Click on the Help Menu - Contents
Retrospect Manual (pdf)	Installation CD
Retrospect Knowledge Base	Open the software. Click on the Help Menu - Online Knowledgebase
Email Support	www.primera.com/contact_tech_support.cfm
Chat Support	www.primera.com/knowledgebase.html
Primera Level 1 Phone Support	763-475-6676 (Mon - Fri 8 a.m 6 p.m CST)
Dantz Level 2 Phone Support	888-777-5664 (Mon-Fri 8 a.m6 p.m.) Retrospect Only - Cost involved.

Technical Support Additional Resources

Maintenance and Troubleshooting 57

Section 7: Technical Specifications

Model	Optivault
Printing Method	Ink-Jet
Printing Resolution	4800 x 1200 dpi, 2400 x 1200 dpi, 1200 x 1200 dpi, 600 x 600 dpi
Ink Types	Dual Cartridges: One 3-color (CMY) cartridge, and one Black Monochrome (K)
Media Types (Retrospect)	DVD+R media recommended by Primera
Maximum print width	4.724" (120mm)
Minimum System (Restrospect)	Pentium IV Processor, Windows 2000, XP, Server 2000, Server 2003, 512 MB RAM, USB 2.0, Macintosh support for clients only.
Disc Capacity	25 discs total for input and output combined.
Interface	USB 2.0 port
Power Requirement	100-240 VAC, 50/60 Hz, 60 watts
Weight	25 lbs. (11.34kg)
Dimensions	17"W x 7.72"H x 16.65"D (432mmW x 197mmH x423mmD)
Certifications	Emissions: FCC Class B, CE
Safety	UL, UL-C, CE
Warranty	One year return-to-depot

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Printed in the United States of America P/N 510934