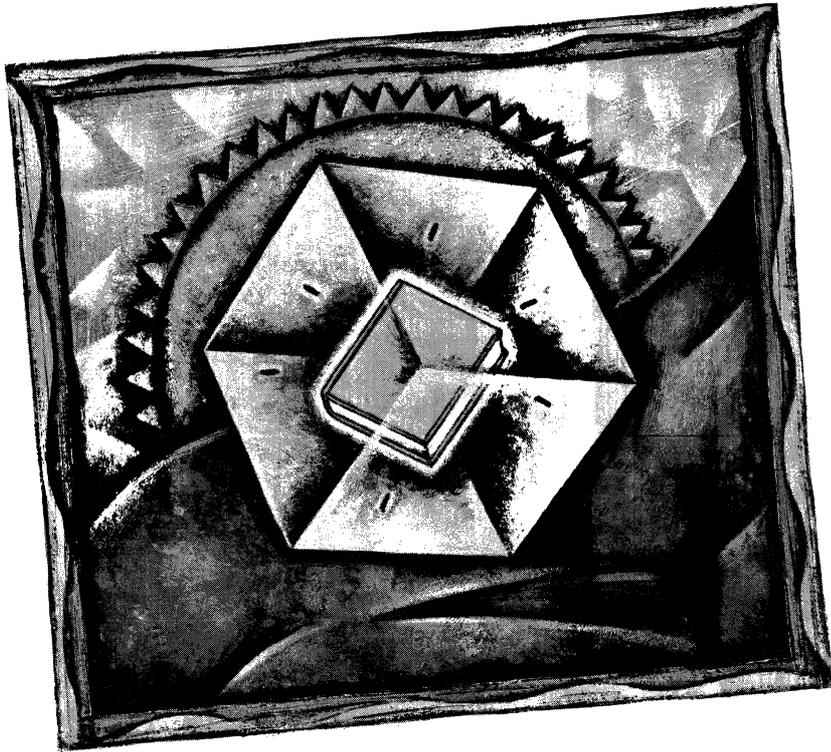


dantz®



# Retrospect®

VERSION 3.0A RELEASE NOTES

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## New Features of 3.0A

In addition to the many new features introduced by Retrospect 3.0 (see below), version 3.0A introduces support for Windows Remotes.

### Windows Remote Support

- Uses Open Transport to communicate with Retrospect Remote client computers running under Windows® 95 and NT™. Clients are available in Remote Packs of 5, 10, and 50.
- Uses TCP/IP connections for high speed network backups.

### Exabyte Tape Format Command

- Formats Exabyte EXB-8200 through -8700 series tapes in your choice of format.

## New Features of 3.0

Below are just a few of the many new features introduced in Retrospect version 3.0. Refer to the manuals for complete information.

### EasyScript™

- Simplifies creating StorageSets™, editing scripts, and scheduling by helping people who may be hesitant to create their own backup strategies and scripts.
- Interviews you and uses your responses to set up a backup strategy and procedure for you and your network.

### Containers

- Help organize large lists of items.
- Local Desktop container organizes volumes on the Backup Macintosh. Individual Remote containers organize Remote volumes.
- Network Remotes container organizes Remotes.
- Groups organize aliases of volumes and Remotes.
- Folders organize everything else.

### Backup Server™

- A very significant advance in backup software technology.

- Any Backup Macintosh can operate as a Backup Server, collecting source volumes from one or more special scripts and backing them up according to which was backed up least recently.
- Flexible media requirements; uses the best available tape or cartridge.
- Periodically polls the network to find Remote computers which need to be backed up.
- Automatically backs up notebook and laptop computers—which are usually unavailable—and removable cartridge volumes soon after they are connected to the network.
- Allows user-initiated backups.

### **Duplicate Operation**

- Makes copies of files (in the platform's native format) from a volume or Subvolume (including those from Remotes).
- Takes advantage of Retrospect's powerful Selectors™.
- Verifies duplicated files to ensure their integrity.
- Matches source and destination to avoid copying identical files which already exist on the destination volume. This can make copying considerably faster.

### **Save Immediate Operations as Script**

- Automate backups and other immediate operations by saving them as scripts.

### **Scripted Restore**

- Make scripts for restoring files and entire disks.

### **More Options and Preferences**

- For customizing and controlling your scripts, operations, and working environment.

### **AppleScript Support**

- Scriptable, so you can send Apple events to Retrospect to initiate various operations, and attachable, meaning Retrospect can “trigger” scripts to run.

## Improved Features

This is just a partial list of improvements made in Retrospect version 3.0. Refer to the manuals for complete information.

### Easier to Use

Retrospect was completely rewritten to make it easier for both novices and experts to tap its power. Its streamlined interface means less dialogs to get in your way, fewer buttons to clutter windows, and more access to the features you want. We've even streamlined the process of entering multiple activator codes when setting up Remotes!

### Directory

It is reorganized and now has an interface arranged with tabs like index cards. The Scripts category is now the Automate tab, and a Special tab has been added. Various commands have moved to different categories. Run has moved to the Immediate tab. Copy has moved to the Tools tab. Schedule has been replaced with Preview on the Automate tab. The Selectors button is on the new Special tab. The Files button is now Contents. What was Immediate>View is now Configure>Volumes. What was Configure>Options is now Special>Preferences.

### Interface

Many commands and operations have been streamlined for ease of use and to avoid redundancy. For example, immediate backup takes you directly to the summary once you have provided the necessary information.

### Documentation

It has been rewritten, with detailed explanations of the fundamental concepts and the hardware involved in backups for the less experienced. Includes a section for power users and extensive information on troubleshooting, error messages, and frequently asked questions.

### Reports

You can change the view options for custom-tailored reports. The Backup Report is dynamically linked to the Backup Server and can be exported to text files. You can print any window that has a list box, which helps to make a list of Remotes and their activator codes.

## Updating from Older Versions

If you currently have Retrospect 1.3, 2.0, 2.1, or 3.0 on your computer, you can update it to 3.0A and keep your configuration and scripts intact.

### Updating from 3.0 to Use a Remote Pack for Windows

Quit Retrospect and go to the Finder. Insert the Retrospect 3.0A Updater disk included in the Remote Pack for Windows package. Double-click the Updater icon to run the application. Follow its instructions to update your copy of Retrospect 3.0 to 3.0A for use with Windows Remotes. Read the *Remote Pack Administrator's Guide* for important requirements of the Backup Macintosh and its operating system.

### Updating from 2.0 or 2.1

Install Retrospect as described in the *Retrospect User's Guide*, Chapter 2 • Installation. The first time you open Retrospect 3.0A, it gives you the option of copying your configuration and scripts from the older version and converting them for use with Retrospect 3.0A.

### Updating from 1.3

Install Retrospect as described in the *Retrospect User's Guide*, Chapter 2 • Installation. Locate the file named “Update from 1.3” and open it. This will convert your old configuration and scripts for use with Retrospect 3.0A.

### Run Documents

Because the Retrospect application uses a new creator code, run documents created with version 2.1 and earlier do not launch Retrospect 3.0A when opened from the Finder. Re-create your run documents to update them.

### Activator Codes

Retrospect Remote upgrades do not include new activator code lists. You can use your previous activator codes to activate Macintosh Remotes.

### Remotes

Retrospect 3.0A can use Macintosh computers which have older Remote software. However, Backup Server features cannot be used with Macintosh Remote control panels older than version 3.0. To update an older Remote after installing Retrospect Remote, follow the instructions in the *Retrospect Remote Administrator's Guide*, Chapter 1 • Installing Remote Software.

## Device Notes

These Device Notes provide information regarding Retrospect and specific SCSI storage devices. For details on SCSI and hardware, refer to the *Retrospect User's Guide*, Section III, Hardware.

Drives listed in these notes have been extensively tested and qualified for use with Retrospect by DantzLab. If your drive's mechanism is not mentioned refer to the Read Me file (installed by the Retrospect installer program) for more information. If it is a new drive, it may be supported by a new version of Retrospect or a driver update. If your drive is not supported and it is an old drive, it may not be qualified by DantzLab. If you have questions about support for your tape drive contact Dantz Technical Support.

These notes on backup devices are divided into categories by the type of mechanism and media used by each drive. To find the name of your tape drive mechanism, click the Devices button on the Retrospect Directory's Configure tab. To get additional device identification information for any type of drive, choose SCSI Status from the Devices menu.

### **Optical or Cartridge Drives**

Retrospect supports all drives which appear as volumes on the desktop, including removable cartridge drives from Iomega and SyQuest, and magneto optical drives from Epson, Fujitsu, Maxtor, Philips, Pinnacle, Ricoh, Sony, and others.

### **CD-R Drives**

Recordable compact disc drives require special software, as they are not directly supported by the Mac OS. When backing up, CD-R drives cannot be used like hard disks or floppy disks. To use a CD-R drive with Retrospect you need the CD-R Driver Kit, a separate software package from Dantz.

Not all CD-R drives use the same technology. Drives capable of packet writing are the only drives ideally suited for backup and only those drives listed in the following table can be used with Retrospect.

## Supported CD-R Mechanisms

Mechanism	Capacity	Comments
Olympus CDS-615E	600MB	Requires CD-R Driver Kit from Dantz. Listed capacity is for 74 minute discs.
Sony CDU920/ CDU924	600MB	Requires CD-R Driver Kit from Dantz. Listed capacity is for 74 minute discs.

### Tape Drives

Retrospect is all the software required to support most tape drives sold in the Macintosh market.

- **Note:** Regular cleaning of your tape drive is essential for reliable performance. Dirty drive heads are a major cause of tape drive problems.

For many tape drives, Retrospect's Retro.SCSI system extension can greatly improve backup performance on systems which cannot use Apple's SCSI Manager 4.3. See the *Retrospect User's Guide*, Section III, Hardware.

- **Note:** If you wish to exchange tapes with people who do not have compression drives, turn off Retrospect's hardware compression option when creating StorageSets.

### **DAT Drives**

Except as noted, these drives support 4mm DAT cartridges in 60m and 90m lengths, for respective capacities of about 1.2GB and 1.9GB. With tapes of these lengths, DDS-2 drives revert to the lower density DDS format for similar capacities. With 120m tapes, DDS-2 drives use their native, higher-density format for an uncompressed data capacity of about 4GB.

Tapes created on one drive can typically—but not always—be read by drives of another manufacturer, provided they are of the same format. Drives from Gigatrend and JVC use the DataDAT format, which is not compatible with the more common DDS format or its DDS-2 successor.

Though they are derived from the same technology and use the acronym for Digital Audio Tape, DAT drives should be used with only media grade tapes—not audio grade—for reliable storage.

### **Supported DAT Mechanisms**

<b>Mechanism</b>	<b>Format</b>	<b>Max. Length</b>	<b>Hardware Compression</b>	<b>Comments</b>
Aiwa GD-201	DDS	90m	yes	
Aiwa GD-8000	DDS-2	120m	yes	
Archive Python, Conner CTD-2004	DDS	90m	optional	
Archive Turbo Python, Conner CTD-4004	DDS	90m	yes	
Conner CTD-8000	DDS-2	120m	yes	
Exabyte EXB-4200, -4200c	DDS	90m	optional	
Gigatrend Turbo SL	DataDAT/DDS	90m	no	Format depends on firmware.
Hewlett-Packard 35450A	DDS	60m	no	
Hewlett-Packard 35470A, C1534A	DDS	90m	no	
Hewlett-Packard C1533A	DDS-2	120m	yes	
Hewlett-Packard 35480A, C1536A	DDS	90m	yes	
JVC XM-S5442EV	DataDAT	90m	no	

### Supported DAT Mechanisms

Mechanism	Format	Max. Length	Hardware Compression	Comments
Sony SDT-1000, -1020, -2000, -2000E	DDS	60m, 90m	no	Model 2000E is double-speed; model -1000 uses only 60m tapes.
Sony SDT-4000, -4000E	DDS	90m	yes	Model 4000E is double-speed.
Sony SDT-5000, -7000	DDS-2	120m	yes	Model 7000 is quad-speed.
Sony SDT-5200	DDS-2	120m	no	
WangDAT 1300	DDS	60m	no	
WangDAT 2000, 2600	DDS	90m, 60m	yes, but not standard	Compressed tapes cannot be used with other drives; model 2600 can use only 60m tapes.
WangDAT 1300XL, 3100	DDS	90m	no	
WangDAT 3200	DDS	90m	yes	
WangDAT 3300	DDS-2	120m	no	
WangDAT 3400	DDS-2	120m	yes	
Wangtek 6130FS, 6130HS	DDS	60m	no	
Wangtek 6200HS	DDS	90m	no	

### 8mm Drives

Eight millimeter tape drives using Exabyte or Sony mechanisms can store 2, 5, 7, 20, or 25 GB of uncompressed data on a tape cartridge. To use an EXB-8900 (Mammoth) or SDX-300 drive with Retrospect you need the Advanced Driver Kit, a separate software package from Dantz. To purchase the Advanced Driver Kit contact Dantz Customer Service. If you received Retrospect or Retrospect Remote included with your EXB-8900 or SDX-300 drive, it should include the Advanced Driver Kit.

Data on tapes written by an EXB-8900 cannot be used with EXB-8200 through -8700 series drives. Tapes used with such drives may be read, but not written, by the EXB-8900, but following their use you must use a cleaning cartridge in the drive. Data on tapes written by a Sony SDX-300 cannot be used by any Exabyte drive, and vice versa.

If a new tape is inserted into an Exabyte compression drive, all data written to the tape in the future is compressed. Tapes formatted by earlier models retain their original format. You can format an EXB-8200 through -8700 series tape and specify its format by going to **Configure** > **Devices** and choosing **Format** from the **Devices** menu. For more information see Retrospect's Read Me file.

### Supported 8mm Mechanisms

Mechanism	Capacity	Hardware Compression	Comments
Exabyte EXB-8200, -8200SX	2GB	no	Retrospect does not use the high speed search of model 8200SX.
Exabyte EXB-8205	2GB	yes	
Exabyte EXB-8500	5GB	no	
Exabyte EXB-8500c, -8505	5GB	yes	
Exabyte EXB-8505XL, -8700	7GB	yes	
Exabyte EXB-8900	20GB	yes	Requires Advanced Driver Kit from Dantz.
Sony SDX-300	25GB	yes	Requires Advanced Driver Kit from Dantz.

### **DLT Drives**

These fast, high-capacity drives represent the high end of available backup devices. To use a DLT drive with Retrospect you need the Advanced Driver Kit, a separate software package from Dantz. To purchase the Advanced Driver Kit contact Dantz Customer Service. If you received Retrospect or Retrospect Remote included with your DLT drive, it should include the Advanced Driver Kit.

### **Supported DLT Mechanisms**

<b>Mechanism</b>	<b>Capacity</b>	<b>Comments</b>
DEC THZ01	2.6GB	Requires Advanced Driver Kit from Dantz.
DEC THZ02	6GB	Requires Advanced Driver Kit from Dantz.
DEC DLT-2000	10GB	Requires Advanced Driver Kit from Dantz.
Quantum THZ01	2.6GB	Requires Advanced Driver Kit from Dantz.
Quantum THZ01	6GB	Requires Advanced Driver Kit from Dantz.
Quantum DLT2000	10GB	Requires Advanced Driver Kit from Dantz.
Quantum DLT2000XT	15GB	Requires Advanced Driver Kit from Dantz.
Quantum DLT4000	20GB	Requires Advanced Driver Kit from Dantz.

### Autoloaders

Retrospect supports the following autoloaders in full random access mode. Some autoloaders have the tape drive at one SCSI address and the loading mechanism at another, whereas others integrate the two into a single SCSI address. Retrospect uses only one drive at a time with loaders having two or more drives. Refer to the *Retrospect User's Guide* for information on Retrospect's loader features. Tips on using each loader are included in the Read Me file installed by the Retrospect installer program.

### Supported Autoloaders

Loader	Mechanism	Magazine Capacity	Comments
ADIC I200	HP 35480A, Sony SDT-5000, or WangDAT 3400	12	Separate drive and loader SCSI addresses. The drive's ID must be set to 0, 1, 2, or 3, and the loader's address must be three higher, at 3, 4, 5, or 6 respectively.
ADIC VLS 4mm	one or two Sony SDT-5000	15	Separate SCSI addresses for loader and drive or drives.
ADIC VLS 8mm	one or two Exabyte EXB-8205, -8205XL, -8505, or -8505XL	15	Separate SCSI addresses for loader and drive or drives.
ADIC VLS DLT	Quantum DLT 2000XT or 4000	7	Separate SCSI addresses for loader and drive or drives. Requires Advanced Driver Kit from Dantz.
Aiwa AL-17D/210/220	one or two Sony SDT-5000	17	Separate SCSI addresses for loader and drive or drives.
Archive Python	Python	5 or 12	Loader and drive integrated at a single SCSI address.
Archive DiamondBack	Turbo Python	4 or 12	Loader and drive integrated at a single SCSI address.
Dilog Libra	DAT drive	16	Separate SCSI addresses for loader and drive.
Exabyte 10i, 10e, 10h	EXB-8200, -8200SX, -8500, or -8500C	10	Separate drive and loader SCSI addresses. The drive's ID must be set to 0, 1, 2, or 3, and the loader's address must be three higher, at 3, 4, 5, or 6 respectively.
Exabyte 210	one or two EXB-8205 or -8505	11	Separate SCSI addresses for loader and drive or drives.
Exabyte 218	one or two DAT drives	18	Separate SCSI addresses for loader and drive or drives.
HP Autoloader	HP CI553A	6	Loader and drive integrated at a single SCSI address.

## Supported Autoloaders

Loader	Mechanism	Magazine Capacity	Comments
LAGO LS-340L	one or two HP C1533A	25	Separate SCSI addresses for loader and drive or drives. If only one drive, its ID must be set to 0, 1, 2, or 3, and the loader's address must be three higher, at 3, 4, 5, or 6 respectively. The second drive ID must be one higher than the first drive.
Qualstar TLS-4210	one or two EXB-8205 or -8505	11	Separate SCSI addresses for loader and drive or drives.
Quantum DLT 2500/2500XT, 2700/2700XT	DLT2000 or 2000XT	5 or 7	Loader and drive integrated at a single SCSI address. Requires Advanced Driver Kit from Dantz.
Quantum DLT 4500/4700	DLT4000	5 or 7	Loader and drive integrated at a single SCSI address. Requires Advanced Driver Kit from Dantz.
Quantum DLTstor 114	DLT2000XT or 4000	14 (two 7)	Loader and drive integrated at a single SCSI address. Requires Advanced Driver Kit from Dantz.
Sony TSL-7000	Sony SDT-7000	8	Loader and drive integrated at a single SCSI address.
Spectra Logic 4000	one to four HP C1533A	20, 40, 60	Separate SCSI addresses for loader and drive or drives. Requires SCSI Manager 4.3 or later.
Tapeworks Minichanger 400	DAT drive	6	Separate drive and loader SCSI addresses. The drive's ID must be set to 0, 1, 2, or 3, and the loader's address must be three higher, at 3, 4, 5, or 6 respectively.
WangDAT LD4	WangDAT 3200	4	Loader and drive integrated at a single SCSI address.

### TEAC Cassette Drives

A TEAC drive uses a streaming tape cassette which looks like an audio cassette with a notch on top. Tape capacities are 50, 60, 150, and 600 MB. A given tape may be read by a drive capable of the same or higher capacity, but may only be written to by a drive of matching capacity.

A separate formatting step is not required, though the first time Retrospect uses a TEAC tape, it performs a “long erase,” which retensions the tape, erases all previous data, and determines the tape’s format and capacity.

- **Note:** Although the TEAC 45S2, N50, and F50 series drives support Quick Locate commands, the locate operation sometimes fails. In this case, retrieving files and incremental backups take considerably longer.
- **Note:** If you experience media failures (error 206) with the TEAC F50, we recommended that you retension your tapes with 30 passes before performing backups. With Retrospect you can perform this operation using the Retension item from the Devices menu (when the storage devices window is active from Configure>Devices). Each retension counts for two passes on the tape, so these tapes would require fifteen retensions.

### Supported TEAC Mechanisms

Mechanism	Capacity	Comments
TEAC 45S	50 or 60MB	Does not support Quick Locate. Operations that require seeking through the tape will take longer. Retro.SCSI and SCSI Manager 4.3 have no effect on this drive.
TEAC 45S2	50 or 60MB	
TEAC N50	150MB	Drives with Rev. B firmware occasionally corrupt data when copying to the tape. Drives with Rev. E firmware do not exhibit this problem. If you have Rev. B firmware, turn on verification! This problem is stimulated by a slow source. To minimize the chance it will occur, turn off compression if possible, or— if you must use compression—remove Retro.SCSI.
TEAC F50	600MB	
TEAC F50B	600MB	Larger buffer.
TEAC F50C	600MB	Larger buffer and hardware compression.

### DC6000 Drives

These tape drives have capacities of 120, 150, 250, 320, 525, 1000, and up to 5000 MB. Tapes written by one drive can typically be read by another of equal or greater capacity.

A separate formatting step is not required, though the first time Retrospect uses a DC6000 tape, it performs a “long erase,” which retensions the tape, erases all previous data, and determines the tape’s format and capacity.

### Supported DC6000 Mechanisms

Mechanism	Capacity	Comments
Archive Viper 2150S, 2060	120, 150, 250MB	
Archive Viper 2525	120, 150, 320, 525MB	
Sankyo CP150	120, 150, 250MB	
Sankyo CP525	120, 150, 320, 525MB	
Sankyo CP1000	120, 150, 320, 525, 1000MB	
Shinwa SDX-85	120, 150MB	
Tandberg 3600	120, 150, 250MB	
Tandberg 3800	120, 150, 250, 320, 525MB	
Tandberg 4100	120, 150, 250, 320, 525, 1000MB	
Tandberg 4200	120, 150, 250, 320, 525, 1000, 2000MB	When performing network backups enable the Retension Tapes option in Special>Preferences>Media Handling.
Tandberg 4222	120, 150, 250, 320, 525, 1000, 2000, 2500MB	Hardware compression is available. When performing network backups enable the Retension Tapes option in Special>Preferences>Media Handling.
Wangtek 5150ES	150, 250MB	Does not support block locate; operations requiring seeking through the tape take longer than on other drives.
Wangtek 51000	120, 150, 250, 320, 525, 1000MB	When performing network backups enable the Retension Tapes option in Special>Preferences>Media Handling.
Wangtek 5525ES	120, 150, 250, 320, 525MB	
Wangtek 9500, 9500DC	120, 150, 250, 320, 525, 1000, 1350, 2100, 2500, 5000MB	Model 9500DC has hardware compression capability. When performing network backups enable the Retension Tapes option in Special>Preferences>Media Handling.

### **DC2000 Drives**

These drives come in two flavors: “streaming” and “block-addressable.”

Streaming, or sequential mode, DC2000 drives are similar to DC6000 drives in that they are not block-addressable, and some of these do not require time-consuming formatting.

Older, block-addressable DC2000 drives require formatted tapes. Although you can format tapes with Retrospect, we recommend purchasing pre-formatted tapes to save time. There are two types of block-addressable DC2000 drives, QIC-100 and Irwin, explained below.

QIC-100 is a standard followed by a number of manufacturers, allowing tapes to be compatible among QIC-100 drives as long as the same interleave is used. Most drives support a higher performance tape interleave, 1:1 Overlap, in addition to the more standard 2:1 Interchange format.

#### **Supported DC2000 QIC-100 Mechanisms**

<b>Mechanism</b>	<b>Capacity</b>	<b>Comments</b>
3M MCD-40 2:1	40MB	Uses DC2000 cartridges. Supports 2:1 interleave only.
3M MCD-40	40MB	Uses DC2000 cartridges.
3M MCD Series II	80 or 120MB	Uses DC2000, DC2080, DC2110, or DC2165 cartridges.
Tallgrass MC40	40MB	Uses DC2000 cartridges.
Braemar QB525S/ QB350S	40MB	1:1 format not compatible with 3M or Tallgrass. Not supported by SCSI Manager 4.3. Uses DC2000 or DC2165 (QB525S only) cartridges.

Irwin drives require specially formatted tapes which are not compatible with other DC2000 drives. Retro.SCSI and SCSI Manager 4.3 provide no performance benefit for these drives.

#### **Supported DC2000 Irwin Mechanisms**

<b>Mechanism</b>	<b>Capacity</b>	<b>Cartridges</b>
Irwin 5040	40MB	DC2000
Irwin 5080	80 or 120MB	DC2000, DC2080, or DC2120

Sequential Mode DC2000 drives are similar to DC6000 drives in that they are not block addressable, and do not require time-consuming formatting. These drives belong to a new generation of DC2000 drives.

**Supported DC2000 Sequential Mode Mechanisms**

<b>Mechanism</b>	<b>Capacity</b>	<b>Comments</b>
Conner CTMS-3200	1.5 or 2.0GB	
Conner CTT-8000	1.5, 2.0, or 4GB	Uses Travan (4GB) or QIC-Wide cartridges.
Tandberg TDC-3500	750, 840, 1000MB	
Tandberg TDC-3700	750, 840, 1000, 2300MB	
TEAC MT-01N	150MB	Uses DC2155 cartridges.
TEAC MT-01F	520MB	Uses DC555 cartridges.
Exabyte EXB-2501, -2501c	530 or 720MB	Available with and without hardware compression. Uses DC2300 or DC2750 cartridges.

The logo consists of the word "dantz" in a lowercase, serif font, centered within a solid black square. A small registered trademark symbol (®) is located to the right of the square.

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