

VeriTape® - 3592



3592 Cartridge CM Reader with bar code reader

Introducing VeriTape® for 3592 Enterprise Tape Cartridges

Since its introduction in 2006 the VeriTape® LTO CM reader has gained wide acceptance as the premier tool to diagnose the health of LTO cartridges. Its scoring algorithm, VeriScore™, has become the industry standard for calculating a single quality score from a complex set of statistical quality data.

Now this proven technology is also available for 3592 enterprise tape cartridges.

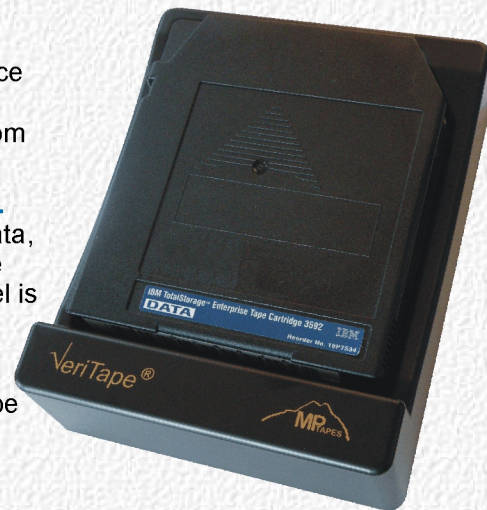
The 3592 VeriTape® reads the Cartridge Memory and analyzes the statistical quality data, just like the LTO unit does. In addition, it also reads and displays the cartridge bar code label. The bar code can be saved in the CM and retrieved from the CM in case the label is damaged.

Identify deteriorating cartridges before they fail

Most systems identify defective cartridges after they fail. These cartridge failures can be disruptive and expensive. But with VeriTape® you can monitor any cartridge and retire aging or damaged ones **before** they fail, not afterwards.

Storing mission critical data

When saving critical data to tape you must have complete confidence that your data can be recovered without problems. VeriTape® enables you to identify and eliminate any cartridge that does not meet your standards.



Do you know the quality of your cartridge ? Your cartridge does!

Data displayed with VeriTape®

The available data include:

Percentage of records in error

- Recovered read & write errors
- Unrecovered read & write errors
- Servo errors & fatal servo errors

Number of bytes written & read

Number of cartridge loads

Age of cartridge

Manufacturer of cartridge

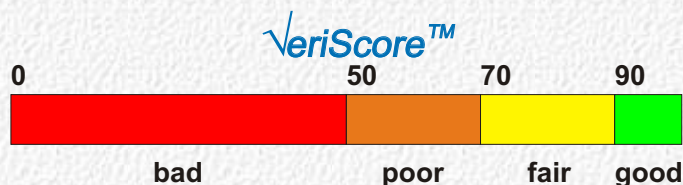
Manufacturer of the tape

Details of the last four times the cartridge was used

Interpreting VeriTape® data

It can be time consuming, tedious, and inconsistent if you try to examine all the data in order to evaluate a cartridge. Not everyone may give each parameter the same weight. It is more helpful to create a single score number that is automatically and consistently calculated from all available data.

VeriScore™ is a Tape Evaluation Score ranging from 0 (very bad) to 100 (very good). Within seconds you will learn if a used cartridge meets your standards.



Hardware & Software requirements

VeriTape™ can be connected to most systems. All you need is a USB port.

The VeriTape™ application software runs under all recent Windows operating systems.

VeriTape® Software

Display

When in 'automatic mode', VeriTape™ automatically detects the presence of a cartridge, reads its memory chip, and displays the data.

Save

The 'save file' function allows you to save the CM contents in a file.

Save Automatic

The 'save automatic' function reads the CM and saves its contents in a file. This function allows you to rapidly read and save the CM contents of multiple cartridges.

Open

Opens and displays previously saved files. When more than one file is selected, the software performs a **statistical analysis** and displays statistical data including maximum, minimum, average, and standard deviation from the selected files.

Regardless of the number of cartridges you evaluate, unacceptable cartridges will immediately be shown.



VeriTap[®] Display

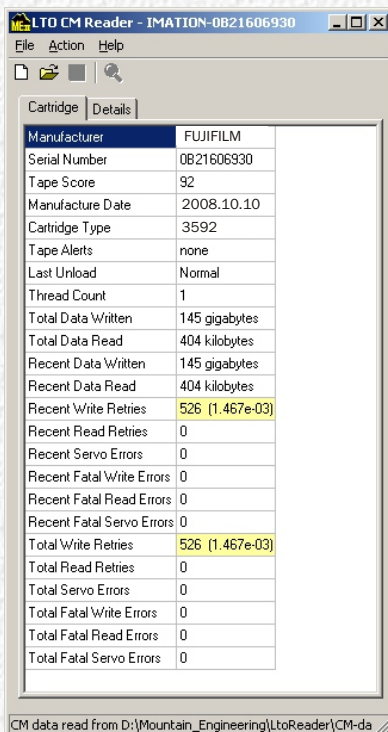
The display gives you the information you need. Values that are outside acceptable norms are highlighted in order of severity in yellow, orange, and red colors.

VeriScore[™]

Summary information

Errors that occurred within the last four times the cartridge was loaded are known as "recent errors". Because of their importance they are displayed first and are weighted higher than other errors in calculating VeriScore[™].

Error summary for entire cartridge



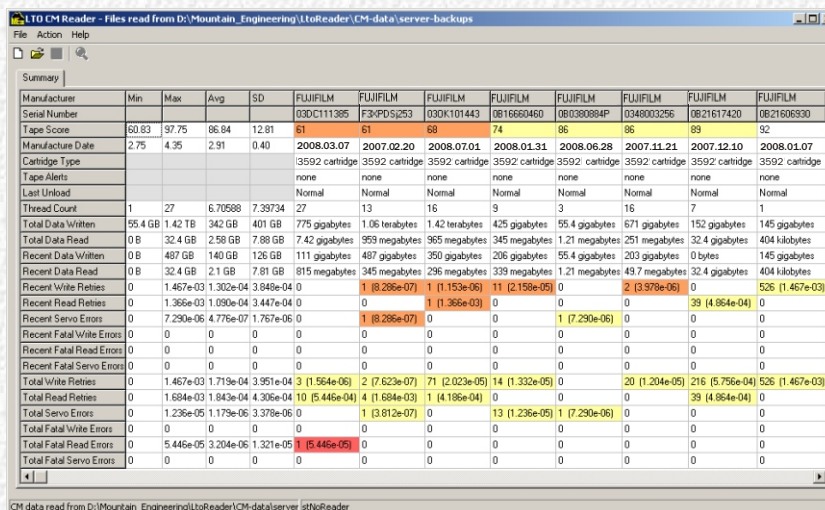
LTO CM Reader - IMATION-0821606930	
Cartridge	Details
Manufacturer	FUJIFILM
Serial Number	0821606930
Tape Score	92
Manufacture Date	2008.10.10
Cartridge Type	3592
Tape Alerts	none
Last Unload	Normal
Thread Count	1
Total Data Written	145 gigabytes
Total Data Read	404 kilobytes
Recent Data Written	145 gigabytes
Recent Data Read	404 kilobytes
Recent Write Retries	526 (1.467e-03)
Recent Read Retries	0
Recent Servo Errors	0
Recent Fatal Write Errors	0
Recent Fatal Read Errors	0
Recent Fatal Servo Errors	0
Total Write Retries	526 (1.467e-03)
Total Read Retries	0
Total Servo Errors	0
Total Fatal Write Errors	0
Total Fatal Read Errors	0
Total Fatal Servo Errors	0

CM data read from D:\Mountain_Engineering\LtoReader\CM-data

VeriTap[®] Statistics

When the saved results of several cartridges are selected, the VeriTap[®] software displays the summary information of all tapes plus additional statistical information, which includes the minimum, the maximum, the average, and the standard deviation of all values.

Click on a value (on VeriScore, for example) and the table is sorted for this value. Cartridges that do not meet your standard can immediately be identified and discarded.



Summary	Min	Max	Avg	SD	FUJIFILM	FUJIFILM	FUJIFILM	FUJIFILM	FUJIFILM	FUJIFILM	FUJIFILM	FUJIFILM
Manufacturer					03DC11385	F3/PDS/253	030K101443	0816660460	080380884P	0348003256	0821617420	0821606930
Serial Number	50.83	97.75	86.84	12.81	51	51	58	74	86	86	89	92
Tape Score	2.75	4.35	2.91	0.40	2008.03.07	2007.02.20	2008.07.01	2008.01.31	2008.06.28	2007.11.21	2007.12.10	2008.01.07
Manufacture Date					3592 cartridge	3592 cartridge	3592 cartridge	3592 cartridge	3592 cartridge	3592 cartridge	3592 cartridge	3592 cartridge
Cartridge Type					none	none	none	none	none	none	none	none
Tape Alerts					Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Last Unload					13	16	16	9	3	16	7	1
Thread Count	55.4 GB	1.42 TB	342 GB	401 GB	775 gigabytes	1.06 terabytes	1.42 terabytes	425 gigabytes	55.4 gigabytes	671 gigabytes	152 gigabytes	145 gigabytes
Total Data Written	0 B	32.4 GB	2.58 GB	7.88 GB	7.42 gigabytes	993 megabytes	965 megabytes	345 megabytes	1.21 megabytes	251 megabytes	32.4 gigabytes	404 kilobytes
Total Data Read	0 B	487 GB	140 GB	126 GB	111 gigabytes	487 gigabytes	350 gigabytes	206 gigabytes	55.4 gigabytes	203 gigabytes	0 bytes	145 gigabytes
Recent Data Written	0 B	32.4 GB	2.1 GB	7.81 GB	815 megabytes	345 megabytes	296 megabytes	339 megabytes	1.21 megabytes	49.7 megabytes	32.4 gigabytes	404 kilobytes
Recent Data Read	0	1.467e-03	1.302e-04	3.848e-04	0	1 (8.286e-07)	1 (1.153e-06)	11 (2.158e-06)	0	2 (3.979e-06)	0	526 (1.467e-03)
Recent Write Retries	0	1.366e-03	1.090e-04	3.447e-04	0	0	1 (1.366e-03)	0	0	0	39 (4.864e-04)	0
Recent Read Retries	0	7.230e-06	4.776e-07	1.767e-06	0	1 (8.286e-07)	0	0	1 (7.230e-06)	0	0	0
Recent Servo Errors	0	0	0	0	0	0	0	0	0	0	0	0
Recent Fatal Write Errors	0	0	0	0	0	0	0	0	0	0	0	0
Recent Fatal Read Errors	0	0	0	0	0	0	0	0	0	0	0	0
Recent Fatal Servo Errors	0	0	0	0	0	0	0	0	0	0	0	0
Total Write Retries	0	1.467e-03	1.719e-04	3.951e-04	3 (1.564e-06)	2 (7.623e-07)	71 (2.023e-05)	14 (1.332e-05)	0	20 (1.204e-05)	216 (5.756e-04)	526 (1.467e-03)
Total Read Retries	0	1.684e-03	1.843e-04	4.306e-04	10 (5.446e-04)	4 (1.684e-03)	1 (4.186e-04)	0	0	0	39 (4.864e-04)	0
Total Servo Errors	0	1.236e-05	1.179e-06	3.378e-06	0	1 (3.812e-07)	0	13 (1.236e-05)	1 (7.230e-06)	0	0	0
Total Fatal Write Errors	0	0	0	0	0	0	0	0	0	0	0	0
Total Fatal Read Errors	0	5.446e-05	3.204e-06	1.321e-05	1 (5.446e-05)	0	0	0	0	0	0	0
Total Fatal Servo Errors	0	0	0	0	0	0	0	0	0	0	0	0

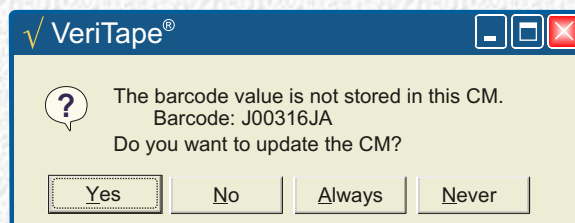
CM data read from D:\Mountain_Engineering\LtoReader\CM-data\server-backups



Reading the bar code

The bar code is automatically read and display by the VeriTap[®] unit when the CM is accessed.

The bar code can optionally be saved in the CM. If the bar code label on the outside of the cartridge is damaged, the bar code can be retrieved from the CM and a new label can be printed.



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