Secure Scan

LTO Scanner
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User Reference Manual
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------ PRELIMINARY ------

Computer System Requirements
Pentium 4 processor or better
512MB RAM minimum
10MB hard disk space minimum
Two available USB-2 ports
Color monitor - 1024X768 or greater native screen resolution required.
32 bit operating system ie. MicroSoft Windows 2000/XP

Software Installation

Follow the instructions provided by Imation Technical Support representative. Microsoft warning regarding uncertified drivers can be ignored.

Hardware Installation
The unit should be placed on a suitable work surface and in close proximity to the host computer to be used. After installation of the software, the two USB cables should be connected to two available USB2 ports on the host computer.

Safety:
The Imation Secure Scan utilizes both an RFID scanner and a laser barcode scanner. Common sense safety practices should be employed when using this device. Do not look into the window when the device is actively scanning.
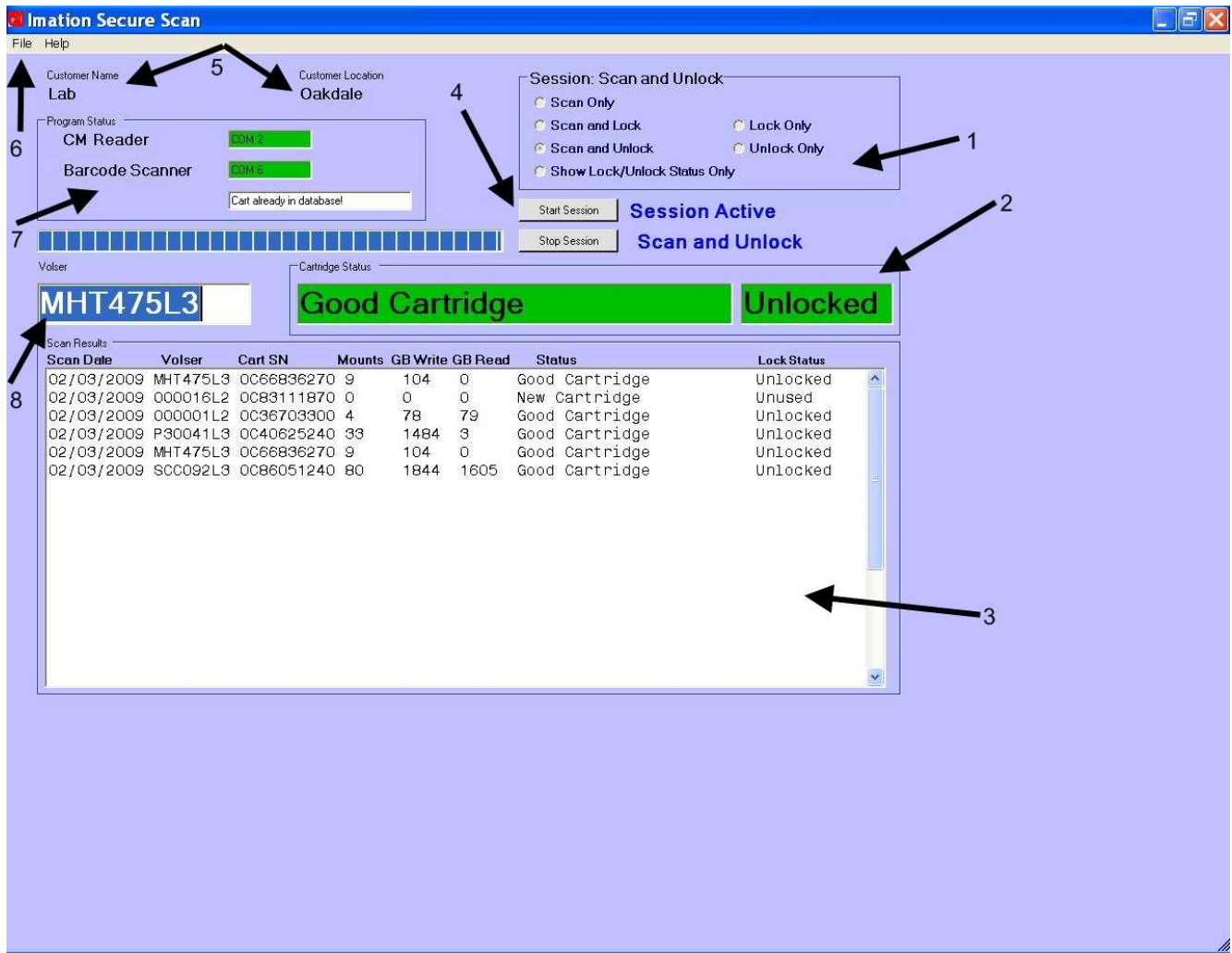
Overview:
Imation has been scanning cartridges for our customers since the introduction of the LTO1 cartridge in 2001 as part of our Technical Support function. The Secure Scan device is the latest improvement in that process allowing customers to evaluate their LTO cartridges continually at their convenience.

The Imation Secure Scan provides the LTO user with the capability to immediately determine the health of each individual cartridge in the library. This allows users to determine which cartridges should be left in service and which should be considered for removal. In addition to immediate feedback on cartridge health, users can periodically submit their collected data directly to Imation Technical Service via email and receive an annual analysis report on total library health and usage patterns. Imation can also provide a comparison of the customer library's usage pattern with industry trends. The patent pending algorithms utilized to determining cartridge status and comparisons to the industry is based on an Imation database of hundreds of thousands of cartridge scan records amassed globally. This additional analysis service allows the user to more accurately assess the condition of the library and predict future performance to minimize down time. Contact Imation Technical Service to arrange an advance report.

The Imation Secure Scan also provides an exciting security feature allowing users to lock cartridges for added data protection. This patent pending feature is useful when transporting or storing cartridges preventing the cartridge from functioning in any drive until it has been properly unlocked via the scanner with the user's password. This password is set by the user and can be changed when ever desired. In the unlikely event of a lost password, Imation can reconstruct the customer password using one of the customer's locked cartridges.
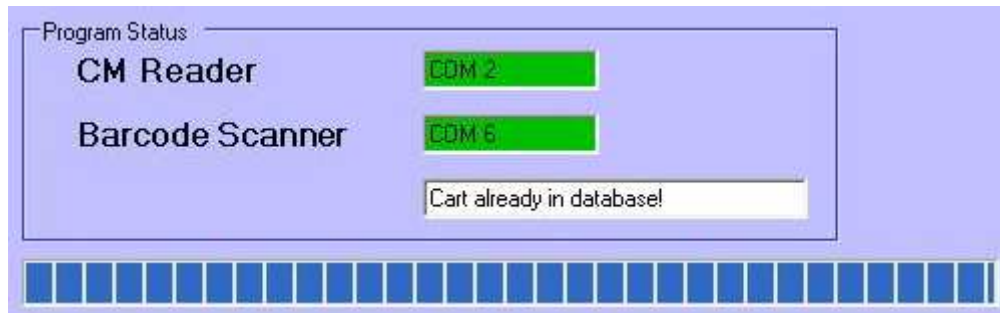
The Main Program Screen:

The main program screen pictured below is where all major scanning and security functions are performed. The numbered arrows will be used throughout this manual to point out various areas during the following discussion on software features and operation.
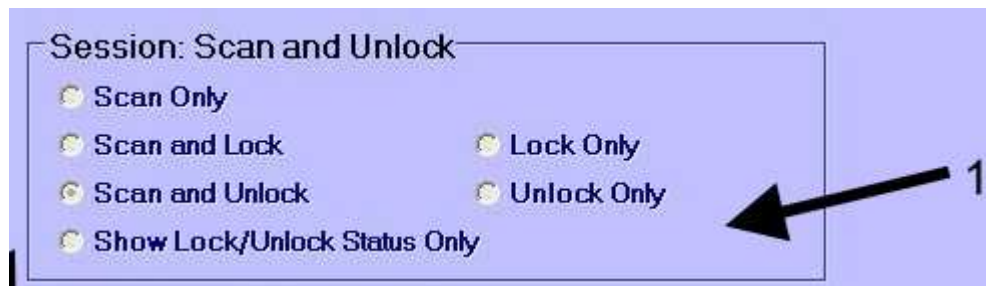

The **Customer Name and Location fields (5**) indicate who will be using the scanner and at what location. This information is configured by Imation at the time of physical scanner installation.

The **Program Status box (7)** provides communications port connection information and the current condition of the CM (Cartridge Memory) chip and barcode readers. In addition, an information window will provide messages on the current state of the software or cartridge being scanned. The scanning progress bar is located directly beneath the Program Status box and shows the status of the scan in process.

The **Session selection box (1)** is where the desired operation for a given cartridge processing session is chosen. Use the radio button next to the desired operation to enable it.

Scan Only -
This selection causes the scanner to interrogate the cartridge memory chip and perform all standard analysis and scan data storing functions. No security operations are enabled. *Note: Locked cartridges must be unlocked first before scanning.*

Scan and Lock -
This selection causes the scanner to interrogate the cartridge memory chip and perform all standard analysis and scan data storing functions. On the completion of the cartridge scan the cartridge is locked to prevent reading by any drive.

Scan and Unlock -
This selection causes the scanner to unlock the cartridge allowing access by an appropriate LTO drive. After unlocking the scanner interrogates the cartridge memory chip and performs all standard analysis and scan data storing functions.

Show Lock/Unlock Status Only -
This selection checks and reports the lock status of the cartridge only and performs no other oerations.

Lock Only -
This selection locks the cartridge currently on the scanner preventing any drive from accessing the cartridge. No cartridge scan information is collected and no analysis performed.
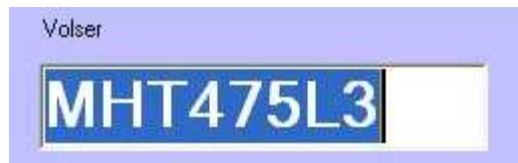
Unlock Only -
This selection unlocks the cartridge currently on the scanner allowing it to be accessed by an appropriate LTO drive. No cartridge historical usage information is collected and no analysis performed.

The **Start / Stop Session Buttons (4)** are used to initiate and stop a scanning session. The status information located immediately to the right of the buttons shows the type of session selected and whether the session is active or not.

The **Volser box (8)** contains the volume serial number of the last successfully scanned tape.

The **Cartridge Status Box (2)** displays the disposition of the last successfully scanned cartridge and it's lock status.

The scanning of a cartridge will result in one of five possible disposition messages in the cartridge status box as follows:
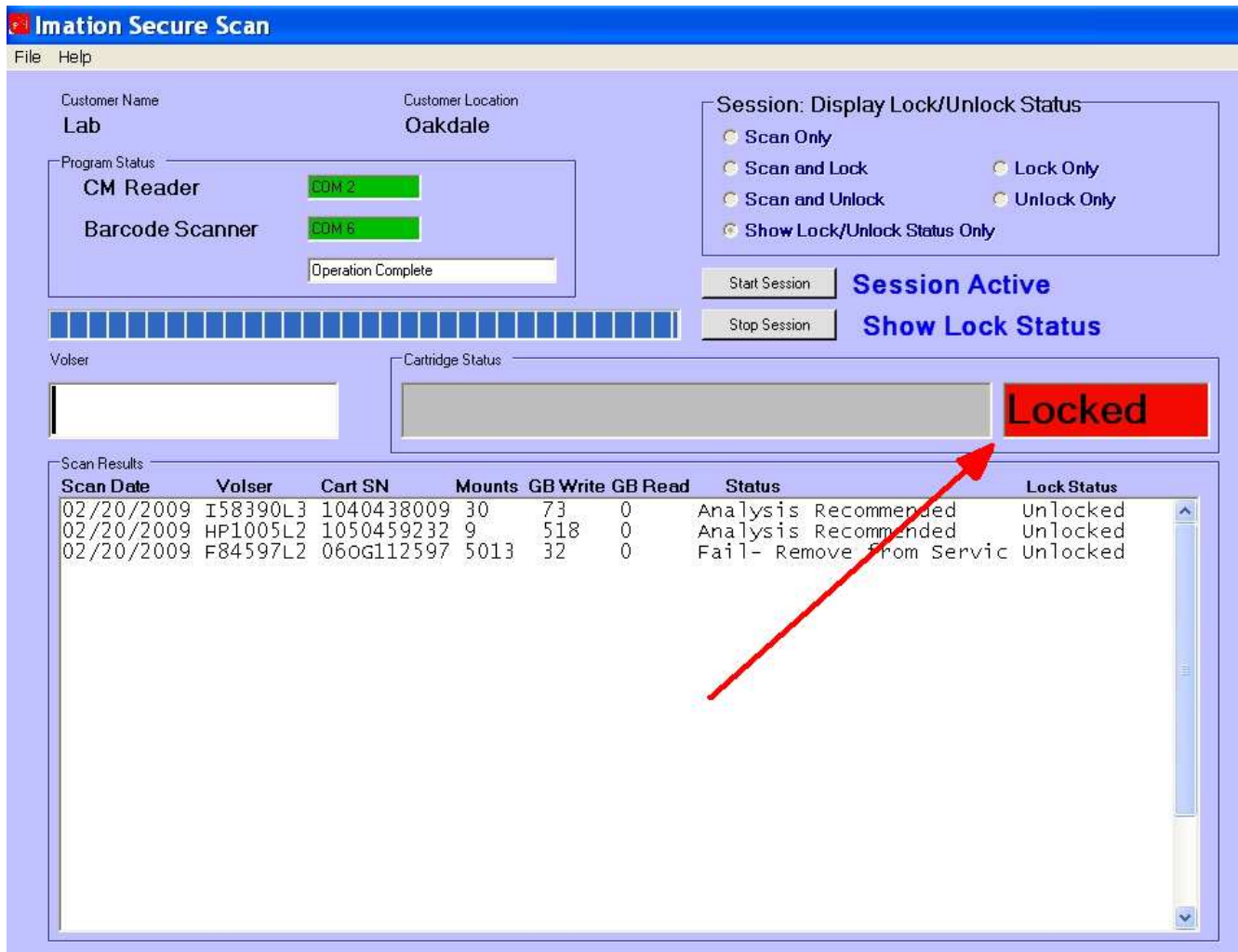
"New Cartridge"	The cartridge has had too little read / write use to determine its current condition or has been loaded < 4 times.
"Good Cartridge"	The cartridge passes all criteria and can remain in service.
"Analysis Recommended"	The cartridge has error performance issues or an invalid end of data mark and should be referred to the manufacturer for additional investigation.
"Warning: Exceeds Useful Life"	The cartridge has had > 5000 mounts or has excessive read / write activity during its life and should be retired.
"Fail - Remove from Service"	The cartridge has had > 5000 mounts or has excessive read / write activity and has serious permanent errors and should be removed and retired.

Cartridge Lock Operation: The Imation Secure Scan has the capability to "Lock" a cartridge by processing the RFID chip using a patent pending method which once locked prevents the cartridge from be successfully loaded into an LTO drive. This feature is advantageous to the end user desiring additional security when storing or transporting LTO media containing sensitive data. Cartridges can be locked in addition to scanning or as a stand alone function or unlocked in addition to scanning or as a stand alone function.

To lock the cartridge, with no session active, select the desired lock option "Lock Only" or "Scan and Lock" from the **Session selection box (1).** Activate the scanning session and enter an appropriate password as directed by the pop up dialog box. **RETAIN THE PASSWORD FOR FUTURE UNLOCKING OF YOUR CARTRIDGES!**. Start the session and place a cartridge on the scanner. The **Program Status box (7)** and **Cartridge Status Box (2)** will indicate the progress of the process. Repeat for each cartridge to be locked. Once locked, cartridges cannot be access by LTO drives. Unlock the cartridges by selecting "Unlock Only" or "Scan and Unlock" in the **Session selection box (1)** as desired. You will be required to supply a password via a pop up box. Start the session and place a cartridge on the scanner. The **Program Status box (7)** and **Cartridge Status Box (2)** will indicate the progress of the process. Repeat for each cartridge to be unlocked.

During lock and unlock operations it is extremely important that the user wait for the lock/unlock status message to be displayed on the screen BEFORE removing the cartridge from the scanner.

In the event a password is lost, Imation can reconstruct your password for you by analyzing one of your cartridges in our Tech Service Lab. Contact Imation Technical Service for further assistance.
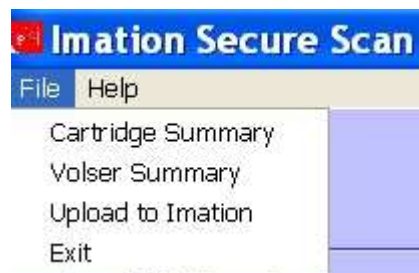
Scan Results Table

Scan Date	Volser	Cart SN	Mounts	GB Write	GB Read	Status	Lock Status
02/03/2009	MHT475L3	0C66836270	9	104	0	Good Cartridge	Unlocked
02/03/2009	000016L2	0C83111870	0	0	0	New Cartridge	Unused
02/03/2009	000001L2	0C36703300	4	78	79	Good Cartridge	Unlocked
02/03/2009	P30041L3	0C40625240	33	1484	3	Good Cartridge	Unlocked
02/03/2009	MHT475L3	0C66836270	9	104	0	Good Cartridge	Unlocked
02/03/2009	SCC092L3	0C86051240	80	1844	1605	Good Cartridge	Unlocked

This table is displayed on the lower half of the maim program screen and contains a running display of the last 20 cartridges scanned with column definitions as follows:

"Scan Date"   The day, month and year that the scan was performed.

"Volser"   The volume serial number scanned from the barcode on the spine of the cartridge.

"Cart SN"   The unique manufacturer's cartridge serial number stored in the cartridge memory chip.

"Mounts"   The count of load/unload cycles experienced by the cartridge to date.

"GB Write"   The number of Gigabytes written to the cartridge since new.

"GB Read"   The number of Gigabytes read from the cartridge since new.

"Status"   The disposition of the cartridge based on the information scanned from the cartridge.

"Lock status"   The current lock state of the cartridge.

Cartridge data beyond the last 20 cartridges displayed in this table can be viewed using the cartridge summary screen described later in this manual.

Windows Tool Bar "File" tab Selections (6)

Imation Secure Scan

File   Help

Cartridge Summary
Volser Summary
Upload to Imation
Exit

Cartridge Summary Sub-screen Overview   This screen provides a summary and basic reporting for a customer selected set of cartridges.

Cartridge Summary

| Start Date | 01/01/2009 | | Cartridge Age Graph |
| End Date | 03/12/2009 | | Cartridge Usage Graph |

Collect Data

Record Shown
- ☑ Good Cartridge
- ☑ New Cartridge
- ☑ Analysis Recommended
- ☑ Warning: Exceeds Useful Life
- ☑ Remove From Service

Select All   De-Select All

Cartridge Mounts Graph

Drives of Interest

Print List   **Export List**

Cartridge Generations Shown
☑ LTO1   ☑ LTO2   ☑ LTO3   ☑ LTO4   **All**

Scan Date	Volser	Cart SN	Mount	GB-Wr	GB Rd	Status
02/05/2009	000122L1	03N1106022	1978	3372	4819	Fail- Remove from Servic
02/20/2009	DB0255L3	05N1105499	43	553	49	Analysis Recommended
02/05/2009	RJ5896L2	0636409474	21	200	6	Analysis Recommended
02/20/2009	F84597L2	06OG112597	5013	32	0	Analysis Recommended
02/05/2009	L03092L1	0B1283511P	47	2143	139	Good Cartridge
02/20/2009	S00579L2	0B27752820	31	95	0	Good Cartridge
02/05/2009	None	0B30293600	3	494	0	Good Cartridge
02/05/2009	None	0B30298430	5	490	0	Good Cartridge
02/05/2009	None	0B30305130	3	512	0	Good Cartridge
02/05/2009	None	0C01582540	156	17173	8956	Warning: Exceeds Useful
01/28/2009	A00002L3	0C12732960	151	11860	11875	Warning: Exceeds Useful
02/05/2009	CL0182L2	0C13388450	195	3715	727	Good Cartridge
02/05/2009	None	0C14813000	905	7053	120	Good Cartridge
02/05/2009	None	0C14813490	1303	3843	163	Good Cartridge
02/05/2009	None	0C15013410	16	1035	3	Good Cartridge
02/05/2009	None	0C19322810	74	3889	44	Good Cartridge
02/05/2009	None	0C26964370	40	638	6	Good Cartridge
02/05/2009	None	0C28637840	63	3426	20	Good Cartridge
02/05/2009	None	0C29728200	148	15407	8685	Warning: Exceeds Useful
02/05/2009	None	0C29807750	50	9390	6907	Good Cartridge

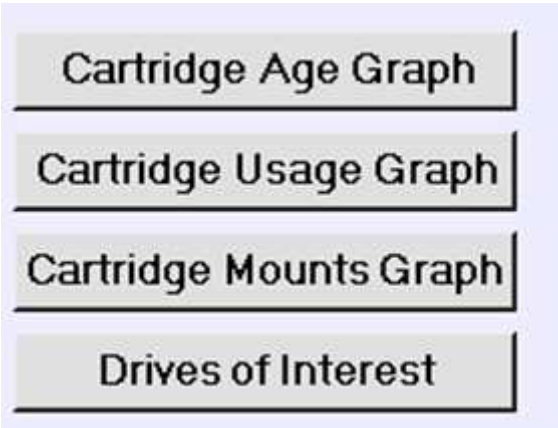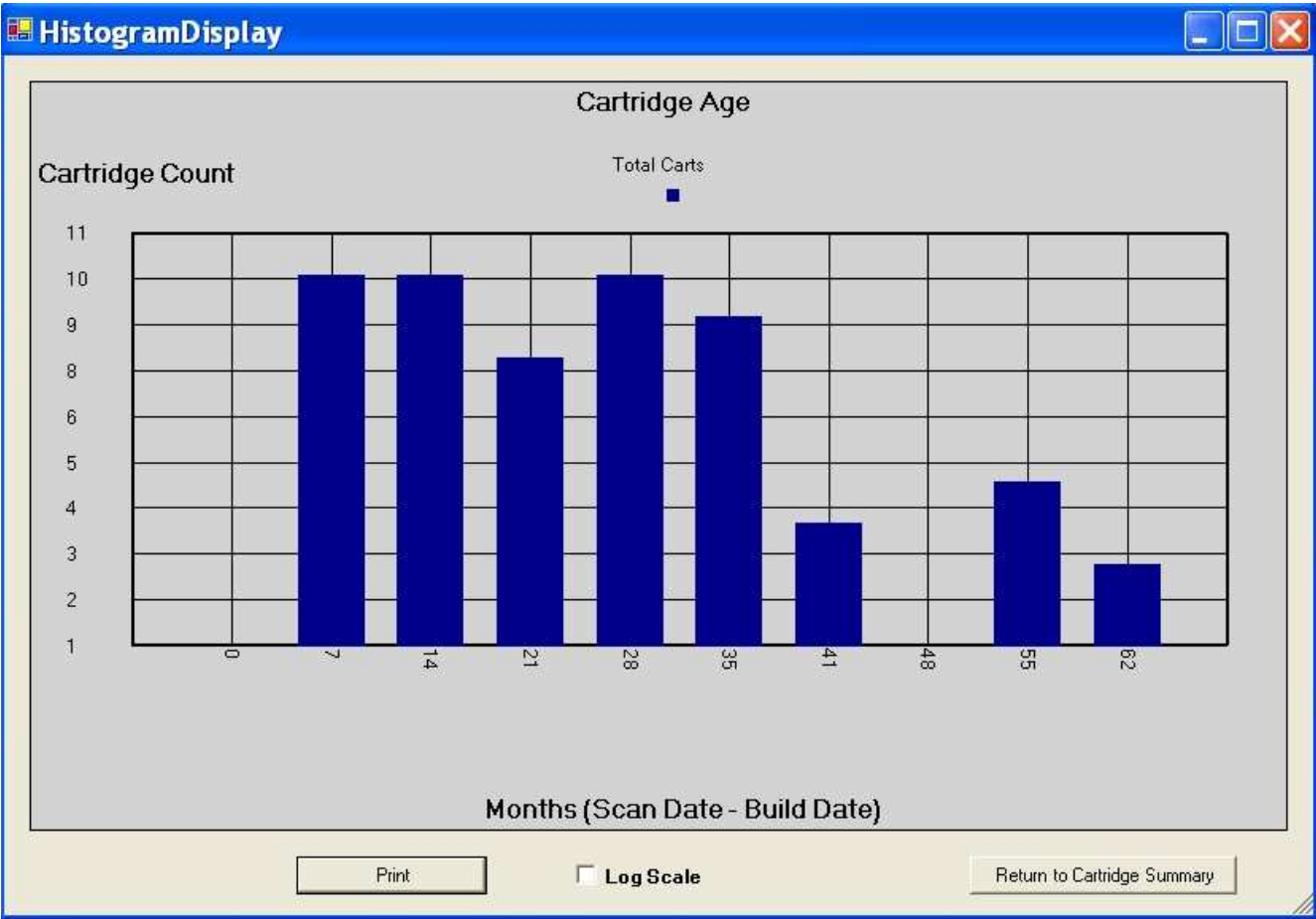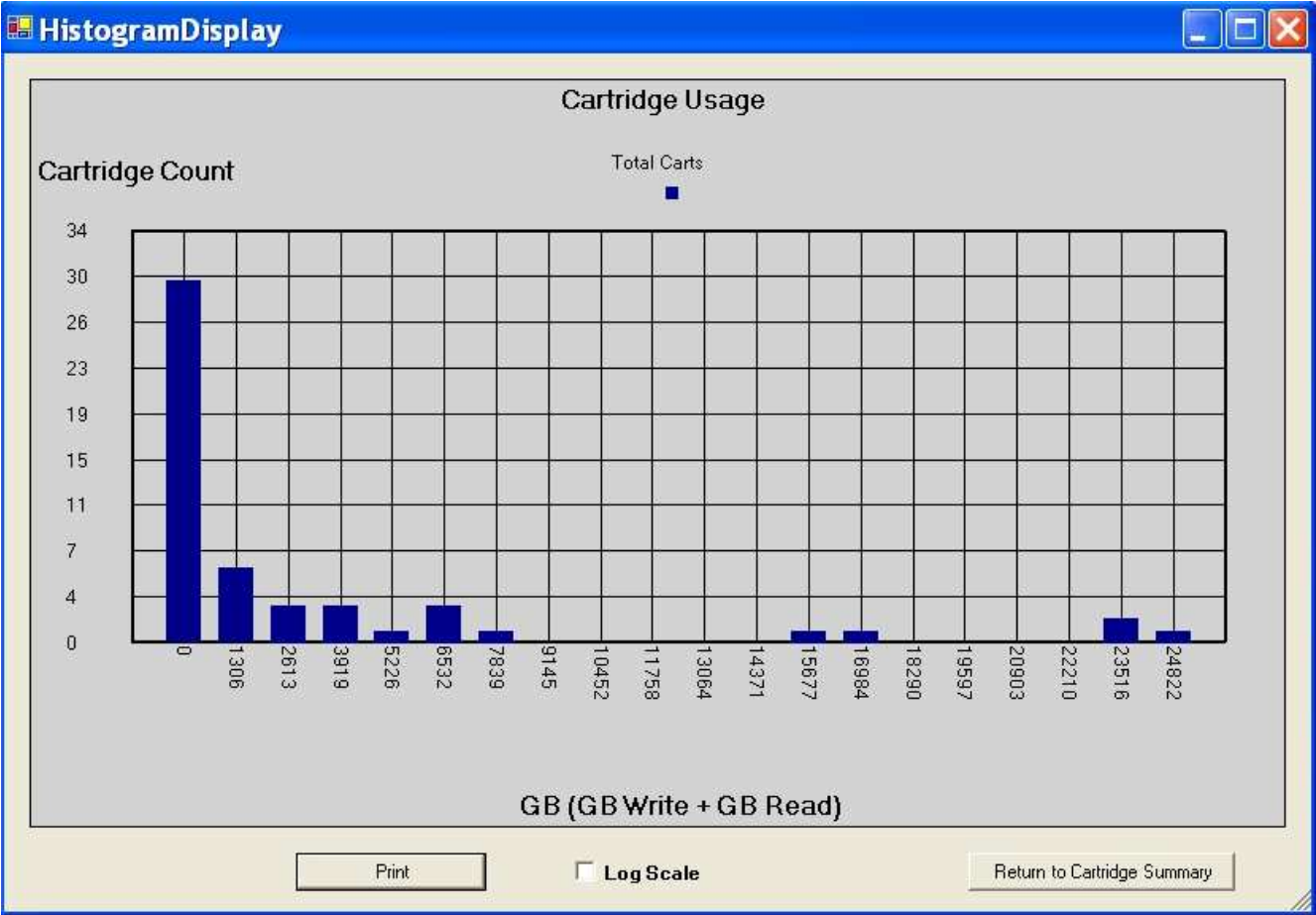|	
Start Date / End Date data boxes -	Input the desired starting and ending dates for the scan data to be gathered. All scans within that range are gathered and reported on.
Collect Data Button -	Initiates the retrieval of info from the database.
Record Shown Filter Selection -	Select or unselect the check boxes to limit the data displayed by disposition type.
Print and export list buttons -	Allow the user to either print a hard copy or export a comma delimited text file for further manipulation.
Cartridge Generation Selection -	Filters the output showing only the cart type(s) selected.

Graph Selection buttons

Cartridge Age Graph - Provides a histogram of the age (in months) of the cartridges included within the dates specified.
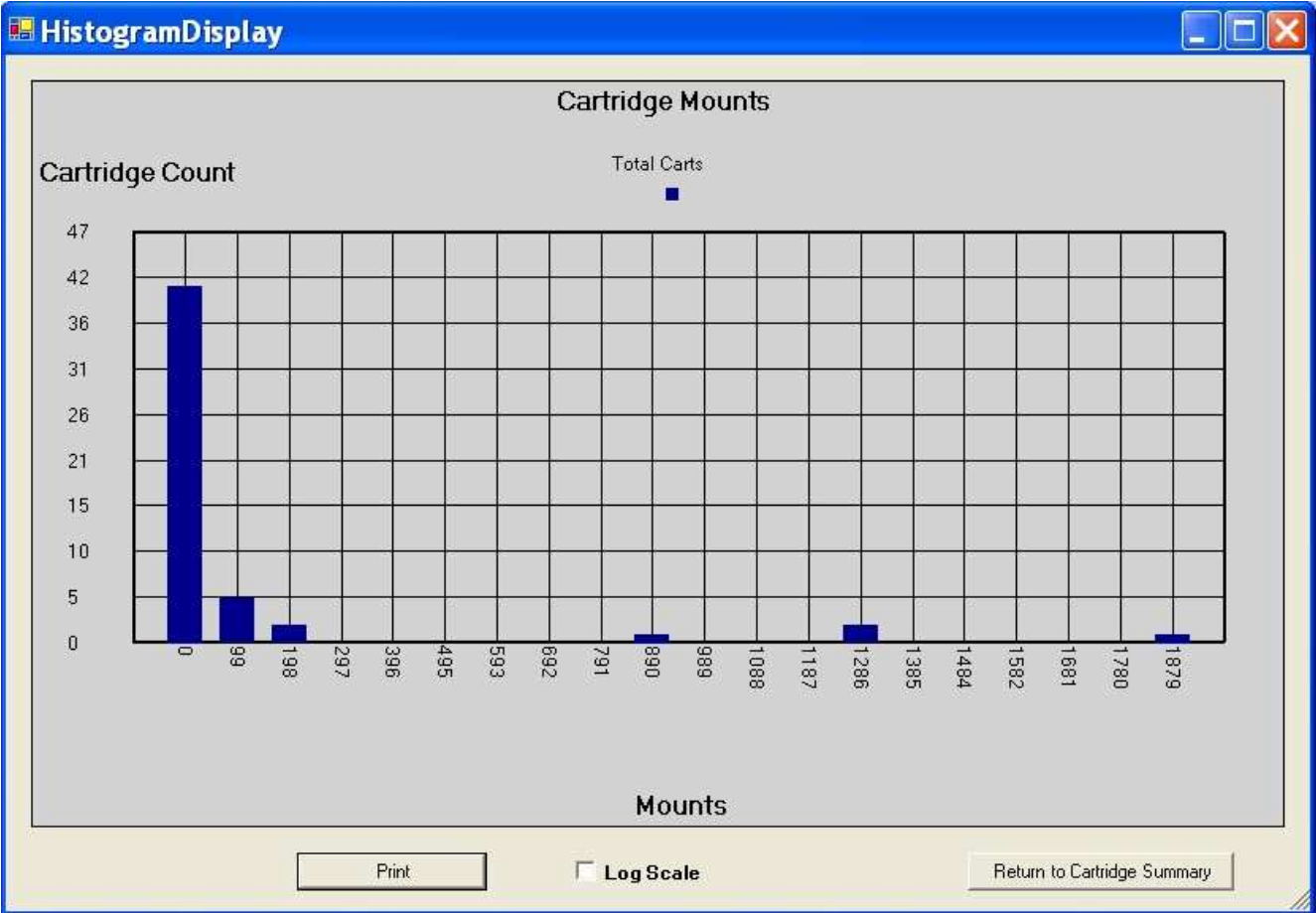
Cartridge Usage Graph - Provides a histogram of the amount of data written and read from the carts in the collection set.
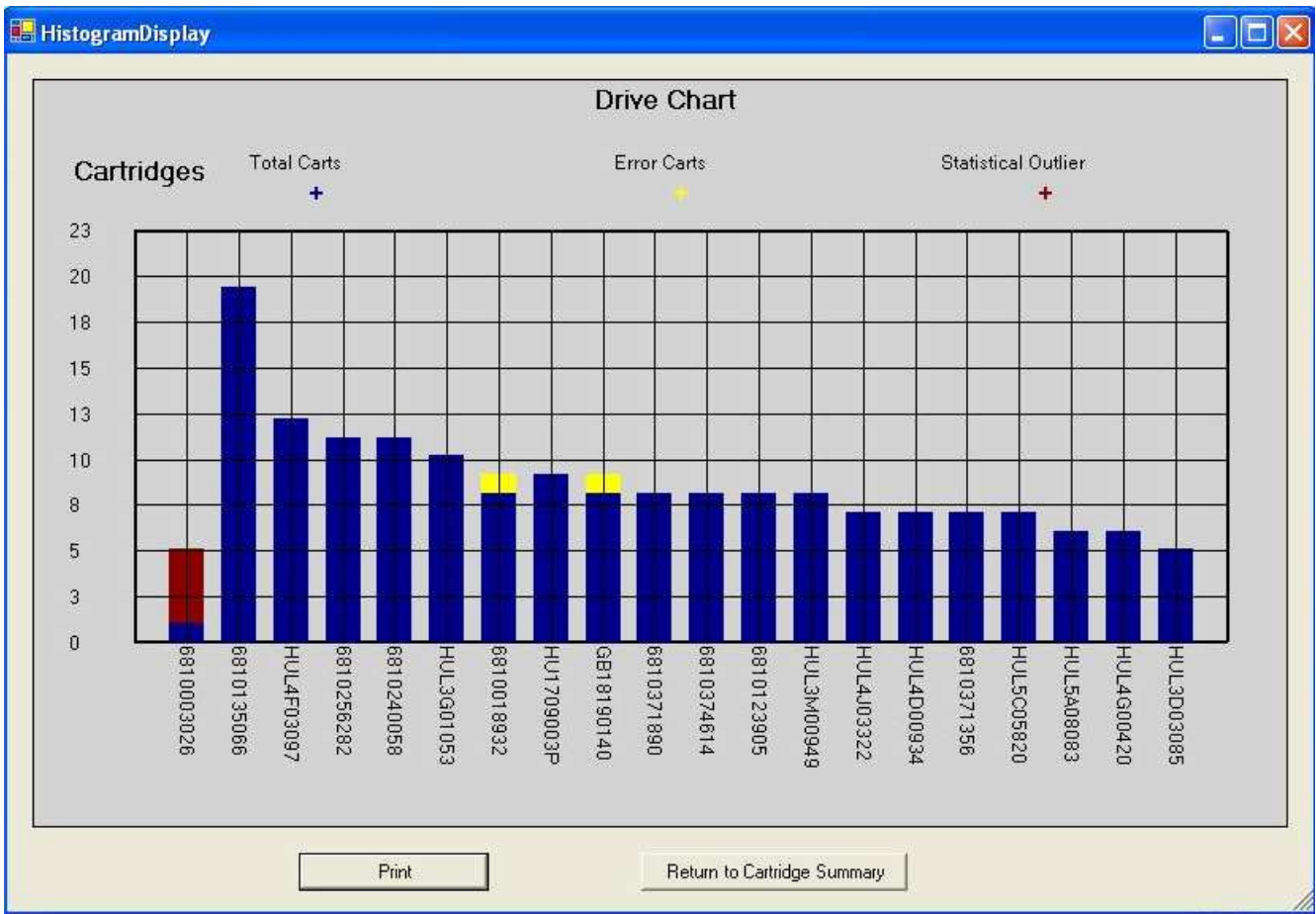
Cartridge Mounts Graph -   Provides a histogram of the number of mounts (load unloads) for the cartridges in the collected data set.

Drives of Interest Graph - Provides a display of drive serial numbers highlighting those which have been calculated to be statistically different than the total drive population. This distinction may indicate that a drive requires maintenance attention. This information can be used to help the customer and their hardware support professional manage the drives in use in the library. The total good carts accessed by each drive is shown in Blue, Cartridges which experience errors are shown in Yellow, and any drives of statistical interest are displayed in Red.

Cartridge List Data Table -

```
Scan Date      Volser     Cart SN      Mount   GB-Wr   GB Rd   Status
02/05/2009  000122L1  03N1106022  1978    3372    4819    Fail- Remove from Servic
02/20/2009  DB0255L3  05N1105499  43      553     49      Analysis Recommended
02/05/2009  RJ5896L2  0636409474  21      200     6       Analysis Recommended
02/20/2009  F84597L2  06OG112597  5013    32      0       Analysis Recommended
02/05/2009  L03092L1  0B1283511P  47      2143    139     Good Cartridge
02/20/2009  S00579L2  0B27752820  31      95      0       Good Cartridge
02/05/2009  None      0B30293600  3       494     0       Good Cartridge
02/05/2009  None      0B30298430  5       490     0       Good Cartridge
02/05/2009  None      0B30305130  3       512     0       Good Cartridge
02/05/2009  None      0C01582540  156     17173   8956    Warning: Exceeds Useful
01/28/2009  A00002L3  0C12732960  151     11860   11875   Warning: Exceeds Useful
02/05/2009  CL0182L2  0C13388450  195     3715    727     Good Cartridge
02/05/2009  None      0C14813000  905     7053    120     Good Cartridge
02/05/2009  None      0C14813490  1303    3843    163     Good Cartridge
02/05/2009  None      0C15013410  16      1035    3       Good Cartridge
02/05/2009  None      0C19322810  74      3889    44      Good Cartridge
02/05/2009  None      0C26964370  40      638     6       Good Cartridge
02/05/2009  None      0C28637840  63      3426    20      Good Cartridge
02/05/2009  None      0C29728200  148     15407   8685    Warning: Exceeds Useful
02/05/2009  None      0C29807750  50      9390    6907    Good Cartridge
```

Scan Date   Is simply the date that cart information was gathered.

Volser   The Volume Serial number scanned from the cartridge barcode.

Cart SN   The internal cartridge serial number assigned by the manufacturer.

Mounts   The number of load / unload cycles recorded for that cartridge

GB Wr   The total Gigabytes of data written to the cartridge during it's service life.

GB Rd   The total Gigabytes of data read from the cartridge during it's service life.

Status   The current cartridge status as determined by Imation's patented cartridge grading algorithm.

Column sorting is accomplished by clicking on the heading at the top of the desired column.

Volser Summary Screen Overview Provides the user with a method to review the scan history of a particular cartridge of interest displaying all records on file in table form.

Volser Summary								_ □ ✕

Volser
MHT475L3   Scan Barcode   Collect Data   **Entries Found** 10

Print   Export

Scan Date	Cart SN	Mounts	GB Wrt	GB Rd	Last Drive	Status
01/30/2009	0c66836270	6	26	0	HU10530GUR	
01/30/2009	0c66836270	7	26	0	HU105251YC	
01/30/2009	0c66836270	8	104	0	HU105251YC	
01/30/2009	0c66836270	9	104	0	HU10530GV5	Good Cartridge
02/02/2009	0c66836270	6	26	0	HU10530GUR	
02/02/2009	0c66836270	7	26	0	HU105251YC	
02/02/2009	0c66836270	8	104	0	HU105251YC	
02/02/2009	0c66836270	9	104	0	HU10530GV5	Good Cartridge
02/03/2009	0c66836270	6	26	0	HU10530GUR	
02/03/2009	0c66836270	7	26	0	HU105251YC	
02/03/2009	0c66836270	8	104	0	HU105251YC	
02/03/2009	0c66836270	9	104	0	HU10530GV5	Good Cartridge
02/04/2009	0c66836270	6	26	0	HU10530GUR	
02/04/2009	0c66836270	7	26	0	HU105251YC	
02/04/2009	0c66836270	8	104	0	HU105251YC	
02/04/2009	0c66836270	9	104	0	HU10530GV5	Good Cartridge
02/05/2009	0c66836270	6	26	0	HU10530GUR	
02/05/2009	0c66836270	7	26	0	HU105251YC	
02/05/2009	0c66836270	8	104	0	HU105251YC	
02/05/2009	0c66836270	9	104	0	HU10530GV5	Good Cartridge
02/12/2009	0c66836270	6	26	0	HU10530GUR	
02/12/2009	0c66836270	7	26	0	HU105251YC	
02/12/2009	0c66836270	8	104	0	HU105251YC	
02/12/2009	0c66836270	9	104	0	HU10530GV5	Good Cartridge
02/13/2009	0c66836270	6	26	0	HU10530GUR	
02/13/2009	0c66836270	7	26	0	HU105251YC	
02/13/2009	0c66836270	8	104	0	HU105251YC	

Volser Entry Box & Scan Volser Button Place the cartridge on the scanner and click the "Scan Barcode" button to obtain the volser from the cartridge. *Please ensure that a cartridge is in place on the Secure Scan fixture to prevent inadvertent laser exposure*

Collect Data Button With the barcode scanned, click to collect info on the cartridge in question.

Volser
[   ]   Scan Barcode   Collect Data

Entries Found info box	Indicates the number of times a cartridge chip has been scanned by the Imation Secure Scan. The LTO cartridge memory chip contains information on the last four drive mounts the cartridge has experienced. Each time a cartridge is scanned by the Secure Scan, the current condition of the cartridge is determined. In addition, the information on the previous 3 mounts is stored, resulting in 4 sets of information for each time the cartridge is scanned on the Secure Scan. For Example, 10 scans of the cartridge below results in data on 40 drive mount events for that cartridge.
Print and Export Buttons	Allows the user to either print a hard copy of the data or export a comma delimited text file (csv) for further manipulation.

Volser Summary Data Table

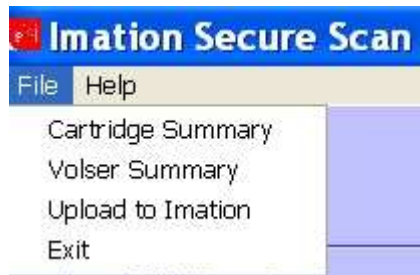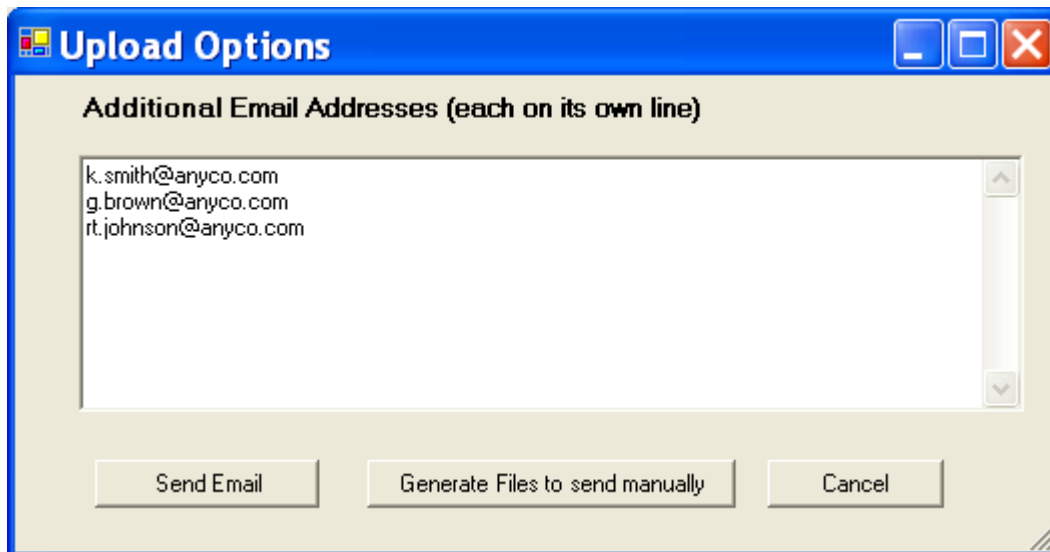|	
Scan Date	Is simply the date that the cartridge information was gathered.
Cart SN	The internal cartridge serial number.
Mounts	The number of load / unload cycles recorded for that cartridge

GB Wr	The total Gigabytes of data written to the cartridge during it's service life.
GB Rd	The total Gigabytes of data read from the cartridge during it's service life.
Last Drive	The serial number of the last drive that the cartridge was loaded into.

Upload to Imation Overview
This function allows the user to send a data file containing the library usage information collected so that more in depth analysis can be provided by Imation Technical Service. ONLY CARTRIDGE USE INFORMATION IS SENT. Because the Imation Secure Scan does not access the actual magnetic tape in the cartridge, no customer data is involved. By partnering with Imation Technical Service, very detailed reports can be provided assisting you in management of your library to maximize media usage and life, and minimize down time by identifying potential media volume and drive hardware issues.
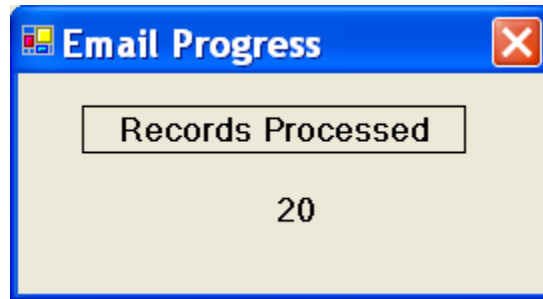

E-Mail Entry field	This dialog box allows the user to enter additional email addresses to which the application will mail usage data.

Send E-mail   Click this button once additional email addresses have been entered. Records are gathered and a file sent to Imation Tech Service as well as any additional addresses entered via the window described above. An E-mail Progress window (shown below) will indicate the operation's status by showing the number of records being processed.

Once the file has been compiled and the e-mail sent the following "Upload Complete!!!" message will be displayed.

Generate Files for Manual Send: If there are overlying security or other concerns, the user may elect to send files to Imation by attaching the files to an e-mail manually. Selecting this button generates that file and places it in the program directory. If the default location was used when installing the software the export file will be found in: **"C:\Program Files\Imation Secure Scan\".** The file is named **"CustomerDB.mdb"** The file size is limited to 20Mb to prevent issues while emailing. If your file size exceeds that limit, contact Imation Technical Service for further instructions.

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GARANZIA LIMITATA: Imation garantisce il prodotto contro i difetti di materiale e di lavorazione al momento dell'acquisto. Se si riscontrano difetti di materiale puliture o dopo 1 anni dalla data di acquisto, il solo obbligo di Imation consiste nella riparazione, oppure nella sostituzione del prodotto difettoso. La garanzia è resa nulla se il guasto del prodotto deriva dall'uso improprio o errato, da negligenza, da unitá nastro regolate o mantentenute incorrettamente, dall'uso in ambienti non adatti o da usura dovuta a normale utilizzo. **IMATION NON È RESPONSABILE DEI DANNI INDIRETTI O DELLE PERDITE ACCIDENTALI DERIVATE DA USO IMPROPRIO DEL PRODOTTO. GARANTIA LIMITADA E LIMITE DE SOLUÇÕES:** A Imation garante que este produto não possui nenhum defeito em seus materiais, nem de fabricação, até o momento da compra. Se surgir algum defeito dentro de 1 ano desde a data da compra, (a), ou pela reposição do produto (b), ou pela devolução do valor da compra do produto (c), o qual deverá ser devolvido à Imation com o comprovante de compra. Este termo de garantia não se aplica a falhas do produto, decorrentes de uso incorreto, abusivo, acidentes, negligência ou mau uso, discos inadequadamente adaptados ou recondicionados, ambiente incorreto ou desgaste pelo uso regular. **IMATION NÃO IRÁ SE RESPONSABILIZAR POR QUALQUER PERDA OU DANO INDIRETO, ESPECIAL, INCIDENTAL, OU CIRCUNSTANCIAL (INCLUINDO DANOS POR PERDA DE LUCRO, ECONOMIAS OU INFORMAÇÕES) DE QUALQUER FORMA RELACIONADO AO PRODUTO.** Isto não exclui reclamações por mau atendimento. Alguns estados ou países não prevêem limites sobre o prazo de garantia, ou sobre a exclusão ou limitações ou sobre danos incidentais ou decorrentes de uso. Dessa forma, as limitações ou exclusões acima descritas podem não ser aplicadas em seu caso. Esta garantia lhe dá direitos legais, e você pode usufruir de outros direitos que variam de estado para estado, ou de país para país.

Conforms to UL Std 60950-1

Cert. to CAN/CSA Std C22.2 No. 60950-1

CLASS 1 LASER PRODUCT
As tested to IEC 60825-1: 2007

CAUTION - CLASS 2 LASER RADIATION WHEN OPEN. DO NOT STARE INTO THE BEAM

Caution - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure

For further assistance with the Imation Secure Scan, please contact Imation Technical Support or email to technicalsupport@imation.com

Voltage	Input: 5 VDC thru USB
Current	450 mA
Power	2.25 watts
RF Frequency	13.56 MHz
Barcode scanner wavelength	650 nm
Max. Laser Power	<1.0 mW
Communication interface	Dual USB-A
Operating Environment	10 to 30 C / 20 to 60% RH
Dimensions (scanner)	5.59"L x 5.64"W x 2.44"H (142 x 143 x 62 mm)
Dimensions (travel case)	14.2"L x 11.4"W x 6.5"H (360 x 290 x 165 mm)
Weight (scanner)	0.70 lbs (0.32 kg)
Weight (scanner + case)	5.65 lbs (2.56 kg)
Patent Pending	Multiple Patents Pending

Secure Scan
Model No. ISS-LTOA

Input:
 5 VDC thru USB
 450 mA

CLASS 1 LASER PRODUCT
As tested to IEC 60825-1: 2007
CAUTION - CLASS 2 LASER
RADIATION WHEN OPEN.
DO NOT STARE INTO THE BEAM.

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RoHS
COMPLIANT
2002/95/EC

Conforms to UL Std 60950-1
Cert. to CAN/CSA Std C22. 2 No. 60950-1

FCC ID: PB4ISS-LTOA
IC: 6900A-ISSLTOA
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.

imation

Imation Enterprises Corp.
1 Imation Way
Oakdale, MN 55128-3414 USA

Assembled in US with non-US and US components

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