



## *A-Scan Manager*

## *Quick Reference Guide*

Rev – 1.04

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# 1. Quick Start Guide

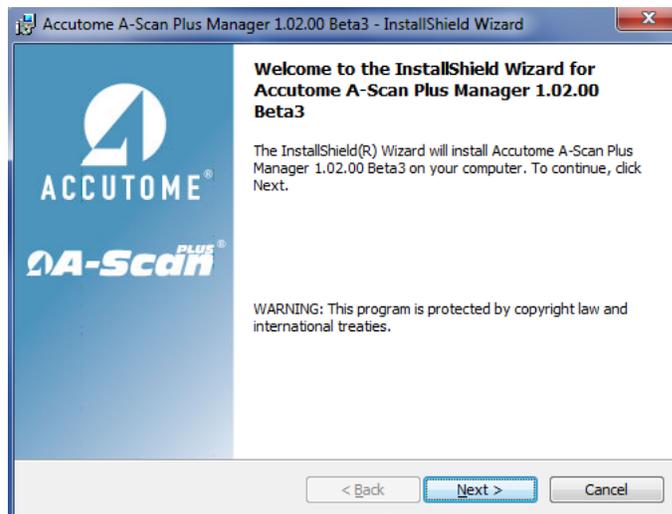
## 1.1. Installing the A-Scan Manager Software

### **A-Scan Manager supports Microsoft Windows XP SP2 and newer versions of OS**

- 1.1.1 Insert the installation disk into the CDROM drive and close all other remaining open applications. Click on **“Run setup.exe”** in the **“AutoPlay”** pop-up window and **“Preparing to Install ...”** window appears on desktop which may take up to a minute. If the install does not automatically begin, open **“My Computer”**. Double click on the **“A-Scan Manager Install”** icon. Double click on **“Setup”**. It will take several seconds to unpack the installation package.



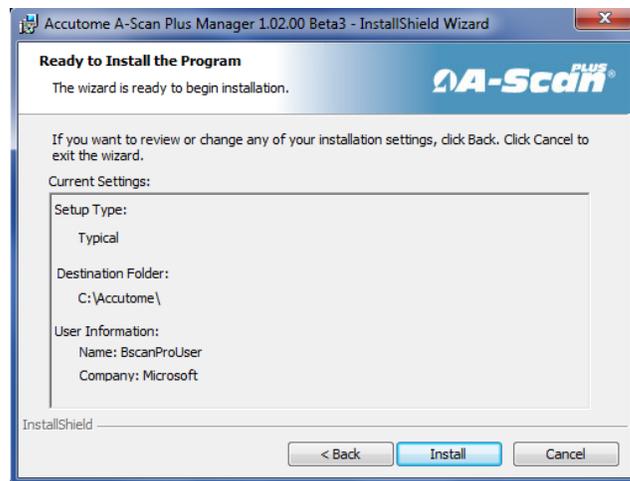
- 1.1.2 When the window of **“Welcome to the InstallShield Wizard for Accutome A-Scan Manager”** appears, click **“Next”**.



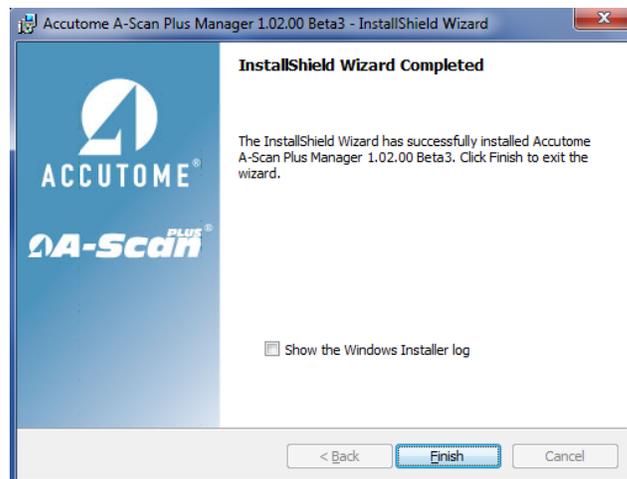
1.1.3 Click “I Accept Agreement” them click “Next”.



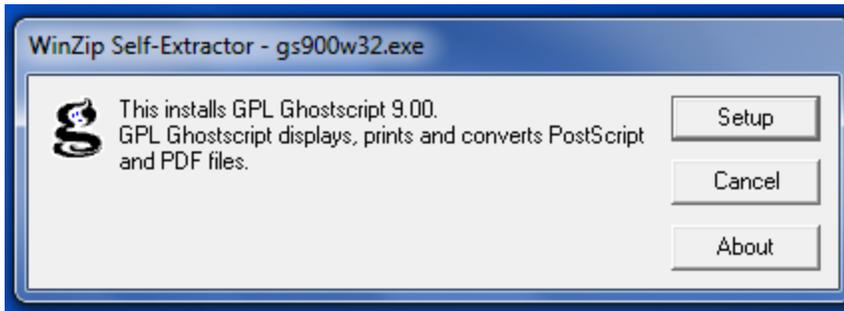
1.1.4 Click “Install” to start copying files to local disk.



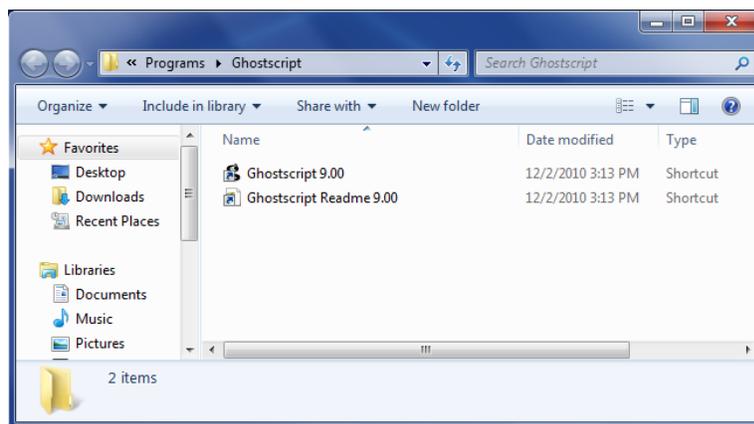
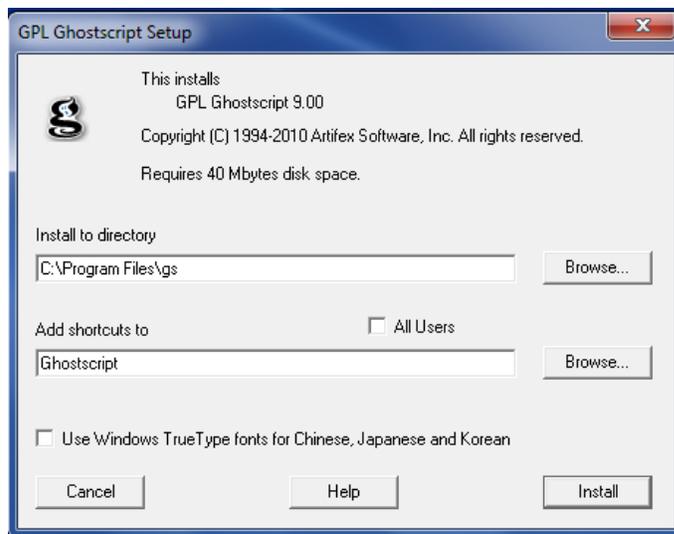
1.1.5 Click “Finish” to complete installation.



**1.1.6** A window “**Installing Ghostscript 9.00**” will automatically appear on desktop. If it does not appear automatically, double click on the icon “**Install gs900w32.exe**” on the desktop to install it manually. Click “**Setup**” to start.



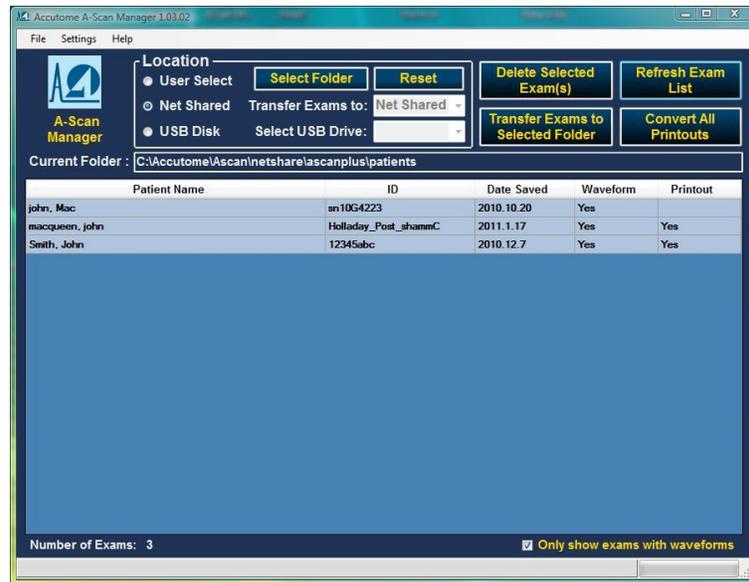
**1.1.7** You can leave all settings in the “**Setup**” dialog as defaults. Click “**Install**”.



**1.1.8** At end of the installation, a window appears to show the location of the application. Close all windows. Eject the installation CD from the CD/DVD drive. Reboot your machine by Clicking on  (Start). Click “▶”. Select “**Restart**”.

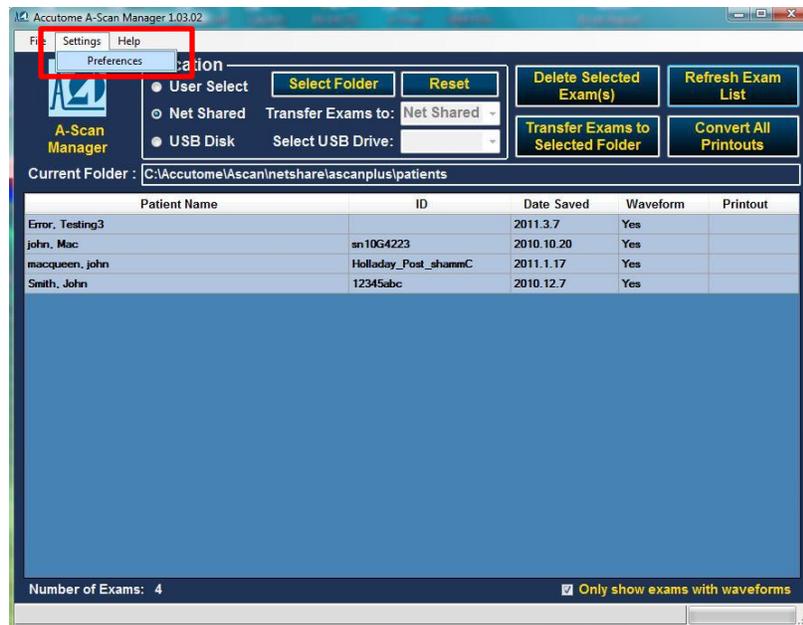
## 1.2 Launch the A-Scan Manager Applications

Once installed, the “**Launch AscanManager.exe**” shortcut appears on the Windows desktop and in the Start Menu. Double click the desktop icon to start the Accutome A-Scan Manager application.



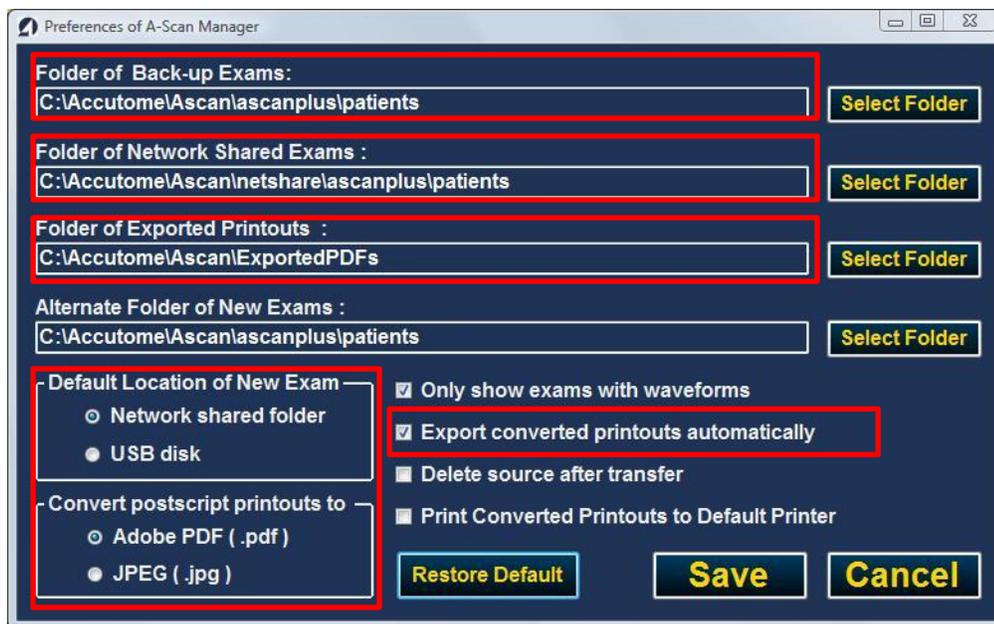
## 1.3 Simple Preferences Setting

Click “**Settings**” on menu bar at the top and select “**Preferences**”. On the pop-up menu, please check and select the following:



- a. Click “**Select Folder**” button next to “**Destination of Exported Printouts:**” to select a different folder for the exported PDF/JPG files. Usually, it is the import folder of your EMR.
- b. Click “**Select Folder**” button next to “**Folder of Network Shared Exams:**” to select the folder been shared out for the network. It is recommended using the default value created by the A-Scan Managed installation package.
- c. Check and change the output format of “**Convert Printouts to**” to the one your EMR supports (PDF or JPG).
- d. Click and check “Network shared folder” if you would like to use network as default place for the new exam.
- e. Click “**Export Converted printouts automatically**” checkbox to turn it on. The program will copy the file placed in the export folder automatically. **NOTE: This is very useful to export printouts to EMR.**

Click “**Restore Default**” to reset all values to factory defaults. After you’ve made all the changes, click “**Save**” to save changes you’ve made and “**Cancel**” to exit.

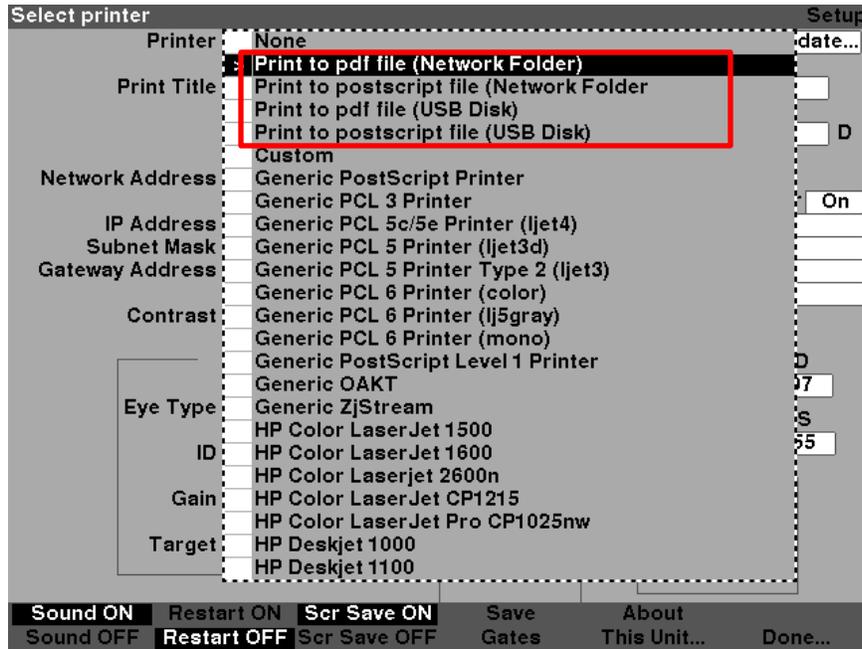


## 1.4 Exporting A-Scan Plus printouts to EMR via A-Scan Manager

### 1.4.1 Printer Setting on A-Scan Plus Version 4.3.0

In version 4.3.0, there are two ways to transfer printouts from A-Scan Plus to a PC running A-Scan Manager. The first is via Ethernet connection and the second way is via USB flash drive. The networking file transfer is the preferred if networking is available. However, to setting up the file sharing via network may require extra work. To setup the

A-Scan Plus user needs to enter the “**Setup**” menu then “**More Settings**” menu on A-Scan Plus. Four selections in the “**Printer**” setting are “**Print to pdf File (Network Folder)**”, “**Print to postscript File (Network Folder)**”, “**Print to pdf File (USB Disk)**”, and “**Print to postscript File (USB Disk)**”



### 1.4.2 Setup “Network Folder” entries

Select “**Print to postscript file (Networked Folder)**” or “**Print to pdf file (Network Folder)**” and press “Enter” key to close the pop-out menu. Move focus box to “**Network Folder**” section and provide following information:

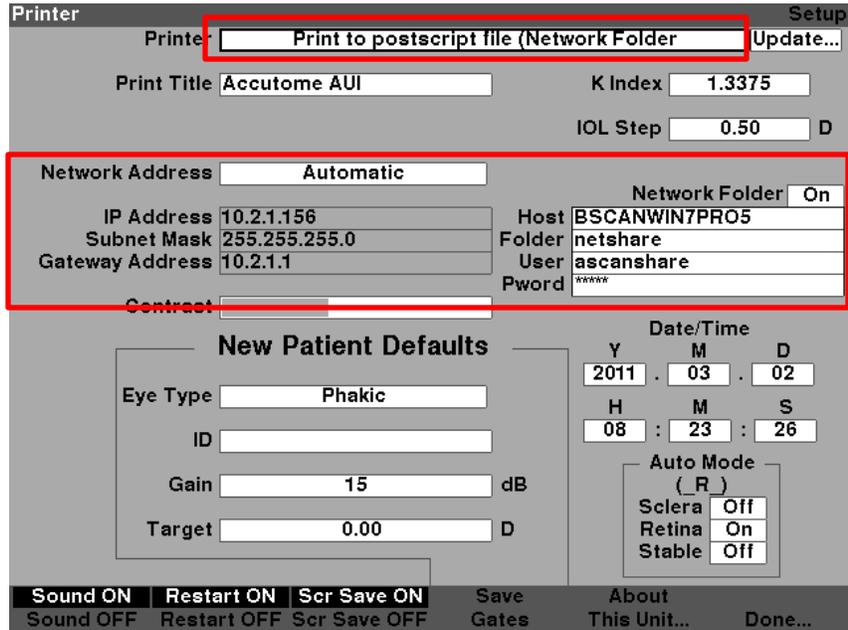
- 1) Computer name (**Host**) .
- 2) Shared folder name (**Folder**).
- 3) User name of an account on the PC (**User**).
- 4) Password of the account (**Pword**) .

From example:

Computer name ( <b>Host</b> ):	BSCANWIN7PRO5
Shared folder name( <b>Folder</b> ):	netshare
User name of an account on PC( <b>User</b> ):	ascanshare
Password of the account( <b>Pword</b> ):	accutome/2011

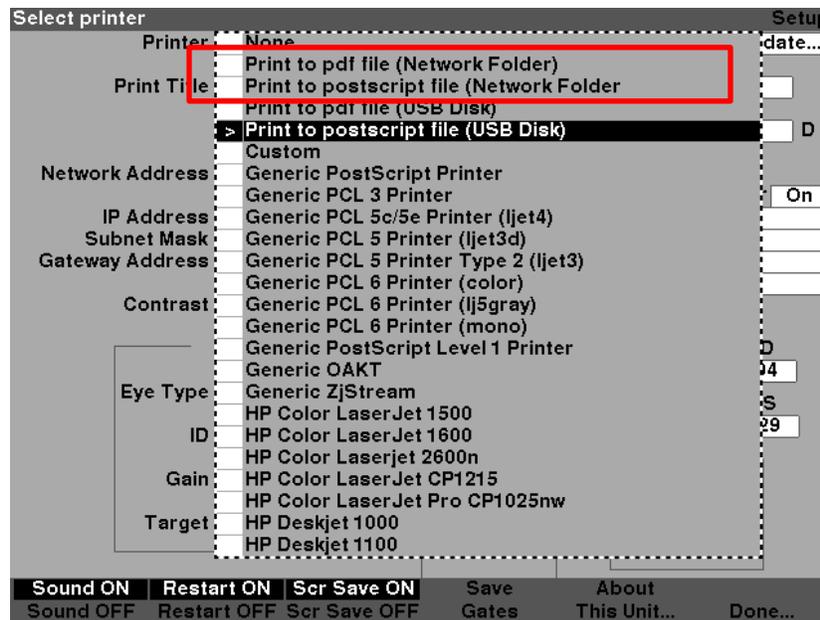
**Note: Please refer to instruction “Setup Network File Sharing between Windows PC and A-Scan Plus” for detail.**

Following snapshot shows the final setup after we enter above information.



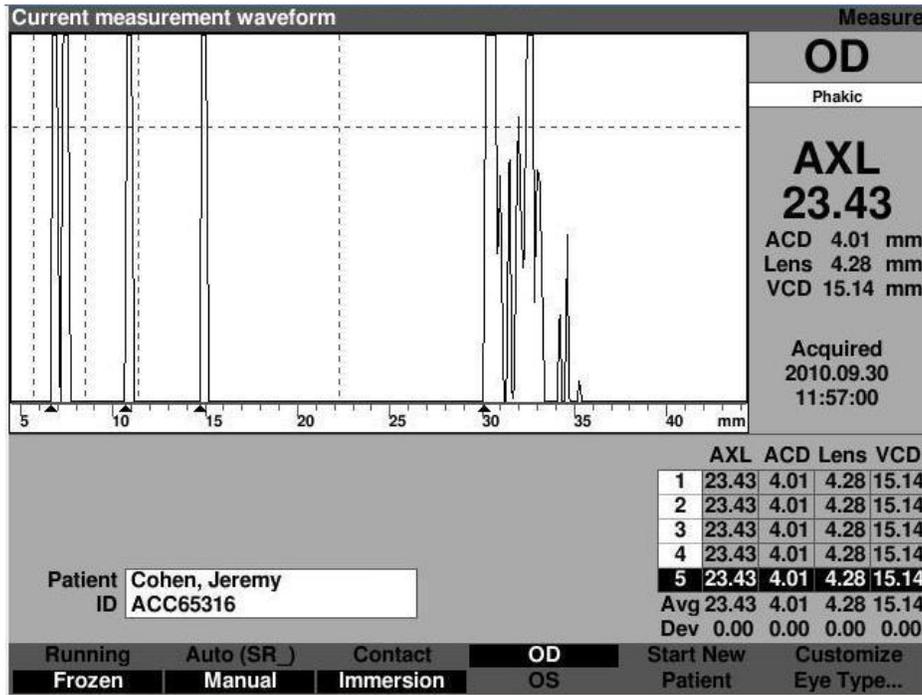
### 1.4.3 Transfer via USB Disk

In this section we will show an example of how to transfer exams and printouts via USB disk. First, select **“Print to postscript file (USB Disk)”** or **“Print to pdf file (USB Disk)”** and press **“Enter”** key to close the pop-out menu.



### 1.4.4 Create a New Exam in A-Scan Plus

Create a new exam using “**Start New Patient**” then scan and calculate.



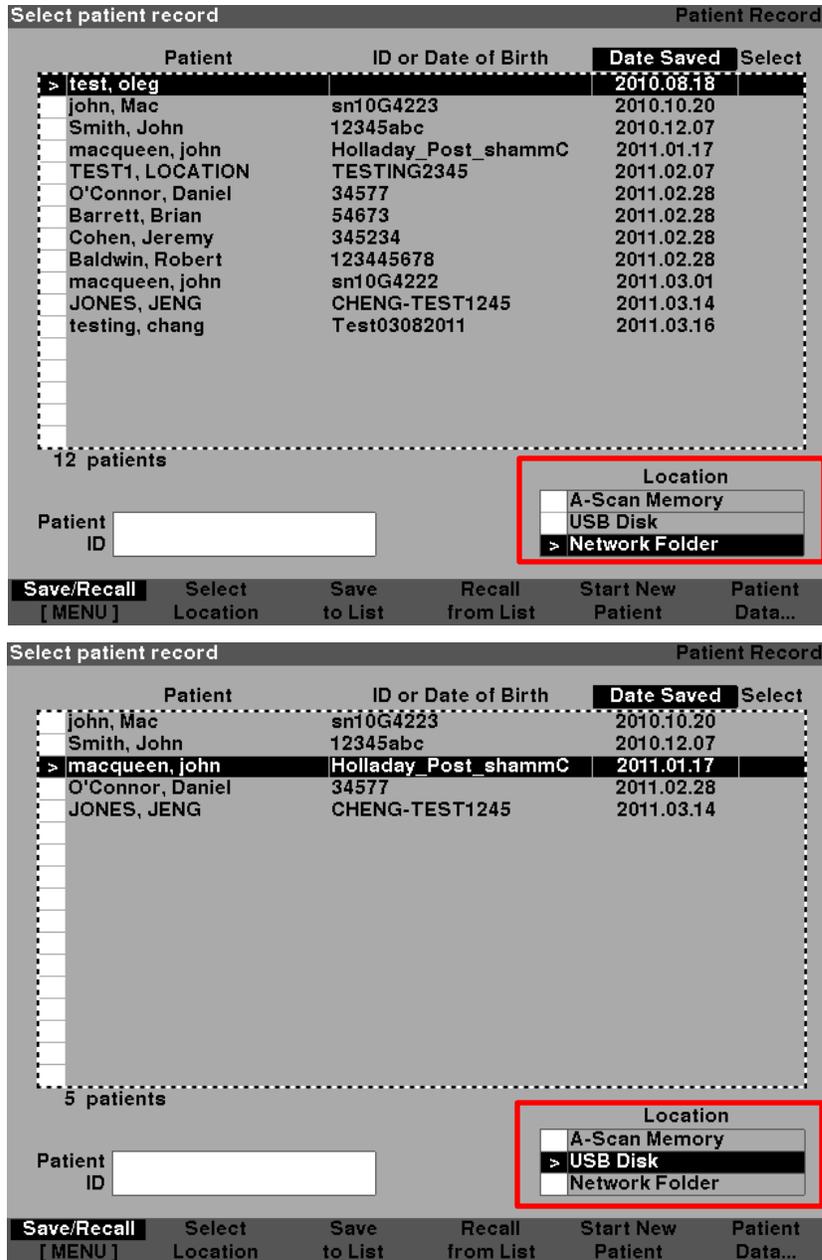
### 1.4.5 Print Waveform or IOL Calculation

Press “**Print**” button on “**Measure**” screen and “**Calculate IOL**” screen to generate printouts on USB disk. If USB disk was not mounted properly, you will get error message “**No USB disk found, please re-plug USB disk**”. You must repeat section 1.4.3 of this guide.

### 1.4.6 Save Patient Data

Enter “**Patient record**” menu and press “**Select Location**” button to change “**Location**” to “**USB Disk**” or “**Network Folder**”. Then, press “**Save Patient**” to save the patient to USB disk. In case the location is “**Network Folder**” the file will save to PC directly.

**NOTE: If users just want to export printouts, this step is optional. However, it is recommended that users save both waveform data and printouts because the “A-Scan Manager” program can match both and help users to organize the studies.**

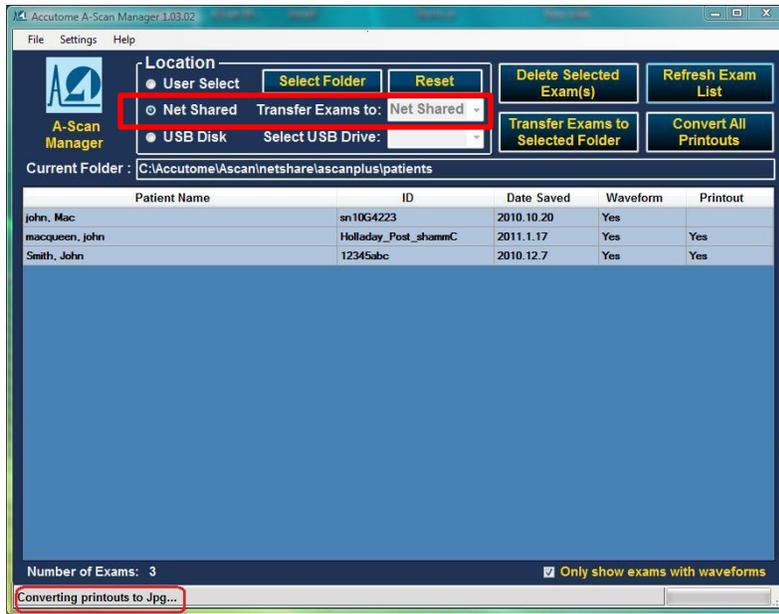


### 1.4.7 Un-plug USB Disk from A-Scan Plus USB

After writing is done (a beep sound), un-plug the USB disk (the LED on the USB disk will flash when it is writing data and become solid when finished writing).

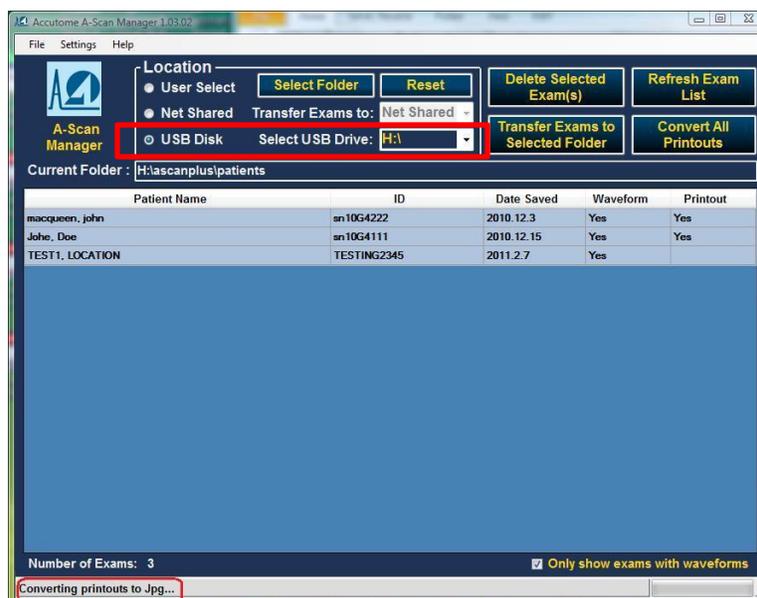
### 1.4.8 Transfer Printouts to PC with A-Scan Manager

First, make sure **there is NO USB disk plugged in the PC**. Double click the icon “Launch AscanManager” to start the “A-Scan Manager” program. The default location is “Net Shared”.



## 1.4.9 Automatically Converting the Printouts

If there is any postscript or PDF file in the printout folder of network shared folder the conversion will start automatically. If you choose to transfer with USB disk the plug-in the USB disk to any available USB port. “A-Scan Manager” should detect the USB disk and start converting any printouts on the disk automatically. Also, the “Location” should switch to “USB Disk” as well. In case it does not auto-detect the USB disk, un-plug and re-plug the USB disk until the “Location” switches to “USB Disk”. You can press the button “Convert All Printouts” to convert manually.



## 1.5 Creating New Exam from Command-line Interface

A-Scan Manager program can generate a new exam auto-filled with patient demographic via command-line interface without GUI or user interaction. The newly created exam can save to USB disk directly (assuming only one is plugged in). **NOTE: It can be used by other applications, such as EMR, to generate new exams automatically to reduce human errors.**

### 1.5.1 Command-line parameters

Each parameter consists of a name and a value in the following format:

**AscanManager.exe <-Parameter Name> <value>**

The values can be single word or multiple words. A multiple words value has to be double quoted. Some of the special characters, such as **'\', '.', '[', and '['** ... etc, should not be used in patient's name. The following is the list of names:

<u>ParameterName</u>	<u>Value</u>
<b>-help</b>	<b>Print out this help menu to console</b>
<b>-lastname</b>	<b>Patient's family name</b>
<b>-firstname</b>	<b>Patient's given name</b>
<b>-medicalrecordnumber</b>	<b>Patient's Medical Record Number</b>
<b>-dateofbirth</b>	<b>Patient's birthday Format: MM/DD/Year (optional)</b>
<b>-remark</b>	<b>Additional exam comments (optional)</b>

### 1.5.2 How to create a new exam

Run the executable from Command Prompt with the following arguments and values:

"-lastname", "-firstname", "-medicalrecordnumber", "-dateofbirth", "-remark"

**Note:** "-dateofbirth" and "-remark" arguments are optional

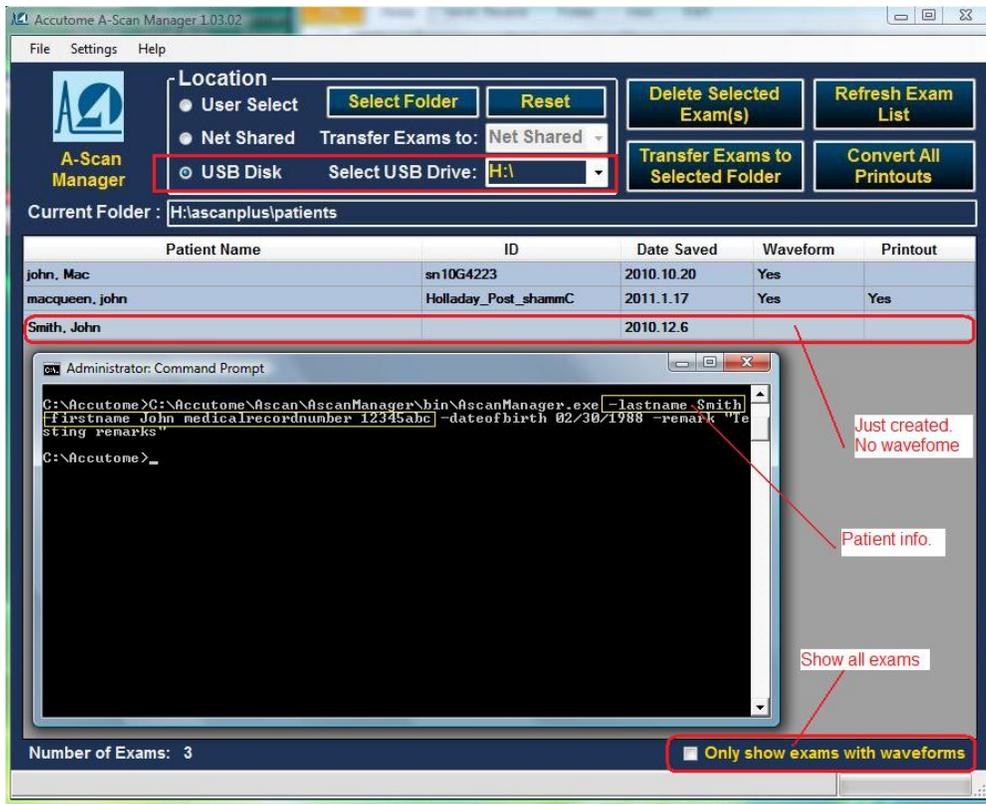
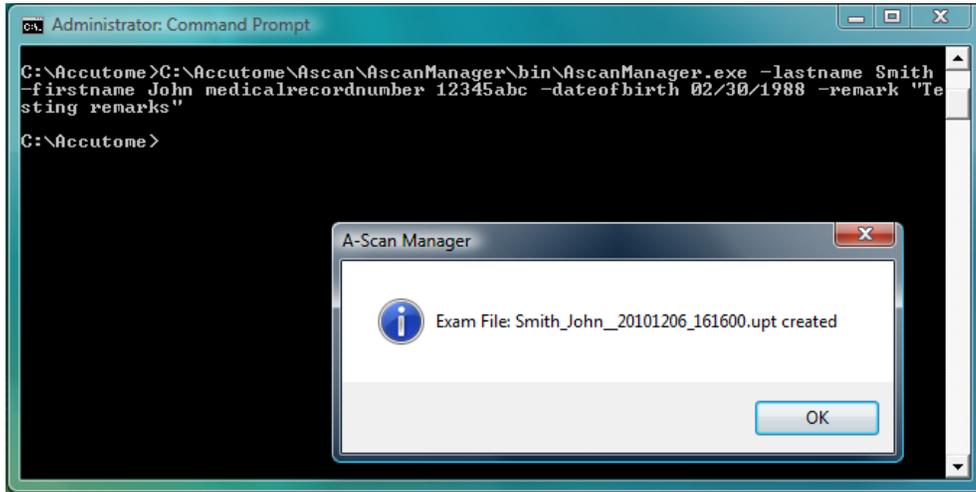
#### **Format:**

C:\Accutome\Ascan\AscanManager\bin\AscanManager.exe -lastname <value> -  
firstname <value> medicalrecordnumber <value> -dateofbirth <value> -remark <value>

#### **Example:**

**C:\Accutome\Ascan\AscanManager\bin\AscanManager.exe -lastname Smith -  
firstname John -medicalrecordnumber 12345abc -dateofbirth 02/30/1988 -remark  
"Testing remarks"**

This will create a new exam file on USB disk and a message box will pop up indicating success or failure. It saves to USB disk by default. However, in case there is no USB disk available at that moment, the new exam will be created in local folder. You can change the destination folder in A-Scan Manager preferences. The following figures show the output of the command-line example.

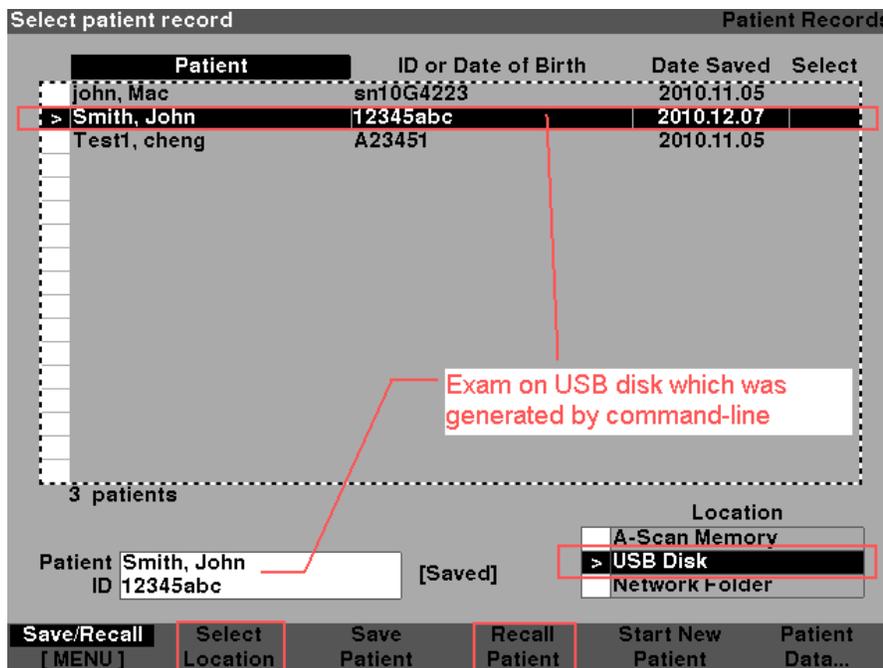


## 1.6 Using the New Exams created by Command-line on A-Scan Plus

After your EMR created a new exam on USB disk via **Command-line Interface**, you can use it to scan and calculate in A-Scan Plus and later export the printouts back to EMR. The following steps work you through the entire process.

### 1.6.1 Load Exam on A-Scan Plus

Remove the USB disk from PC and plug-in to an A-Scan Plus. Enter “**Patient Record**” menu and press “**Select Location**” button to select “**USB disk**”. The newly created exam will show up on the list. Turn the knob to select the exam, then press “**Recall Patient**” button to load exam with patient demographic.

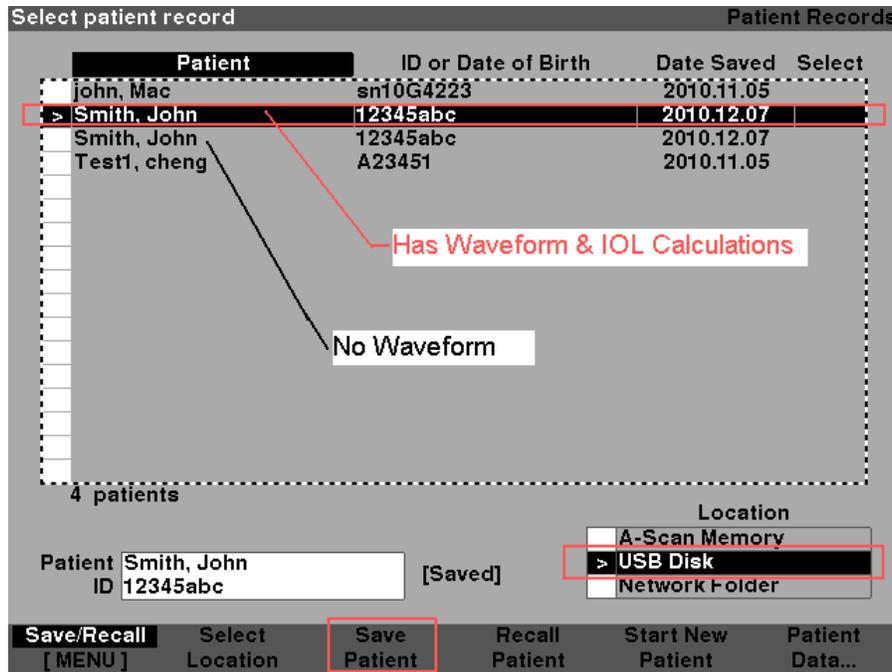


### 1.6.2 Acquire Data and Generate Printouts

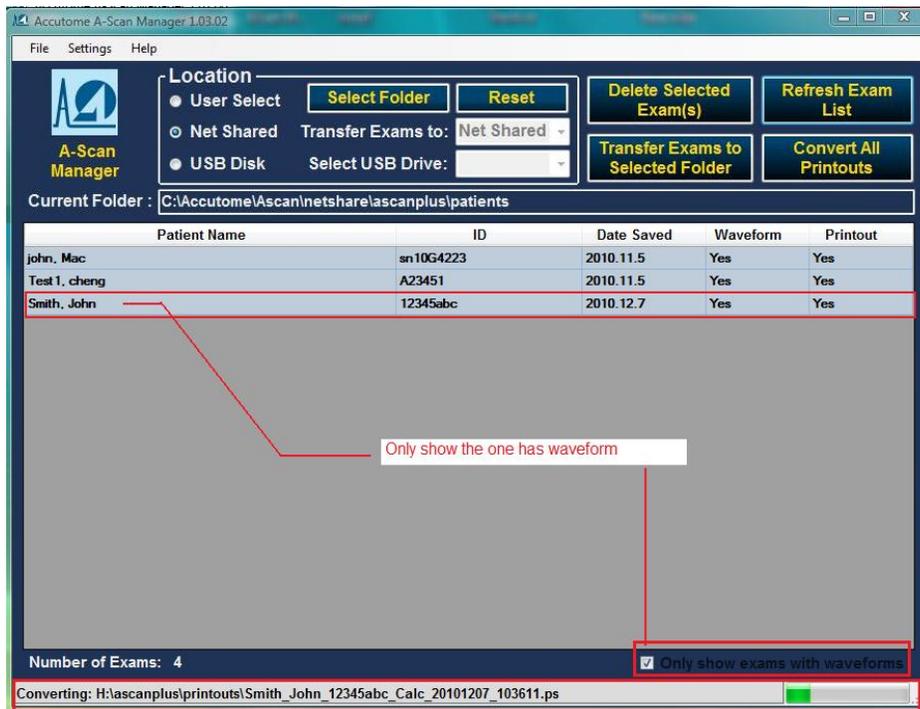
Enter “**Measure**” menu and perform scans and enter “**Calculate IOL**” menu for IOL calculation. Make all necessary printouts for each step.

### 1.6.3 Save Exam and Export to EMR

Return to “**Patient Record**” menu and press “**Save Patient**” button to save exam to USB disk. You will see a new exam entry added to the list, which has identical name, ID, and Date as the old one on the list. Please see figure below. **NOTE: This is because we do not want to overwrite the existing exam in case we need to know the original state of the exam.**



After the writing to USB disk is done (LED on USB disk stops flashing), un-plug the USB disk and plug-in to the PC. Start **A-Scan Manager** if it is not running already. Any printouts will be automatically converted to user defined format and exported to user defined folder. The following figure is the list with new exams from the A-Scan. **NOTE: When the box “Only show exams with waveform” is checked, we only see the exams that have waveforms.**



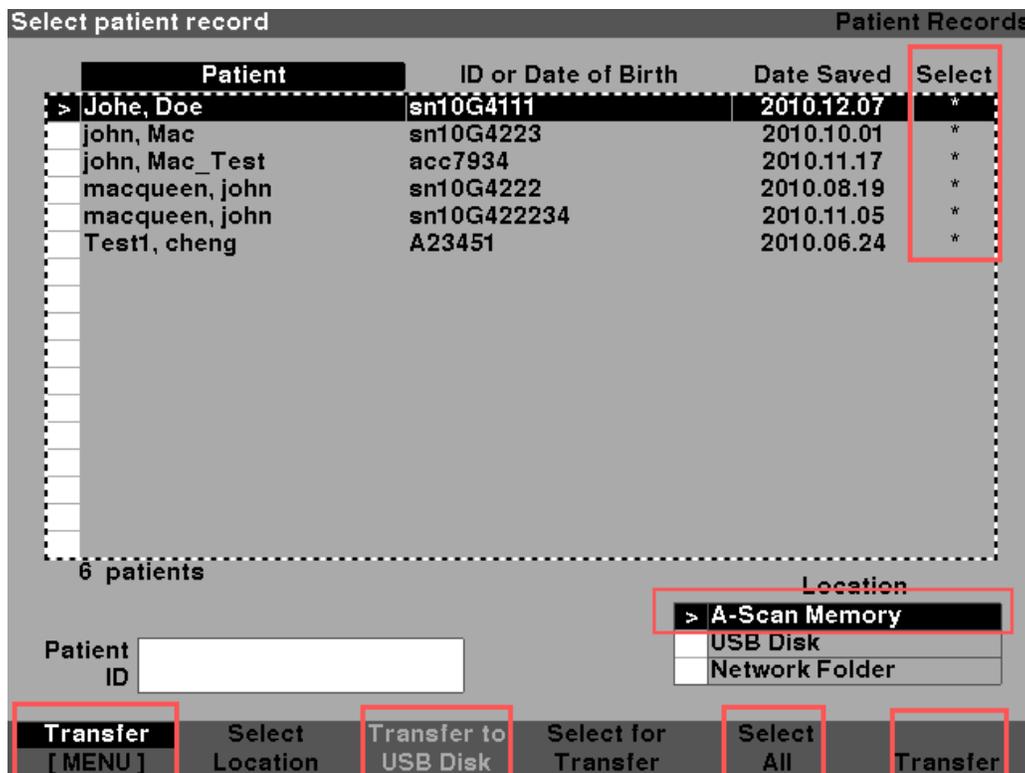
## 1.7 Backup and Restore Exams on A-Scan Plus USB units

A-Scan Manager is designed to be an archiving tool for the A-Scan Plus which can store up to 100 exams to its internal memory. Users can transfer the exams to a USB disk and store them on a PC and transfer back for reviewing purposes. It is much easier to manage exams on a PC than on the A-scan itself.

### 1.7.1 Backup Exams from A-Scan Plus

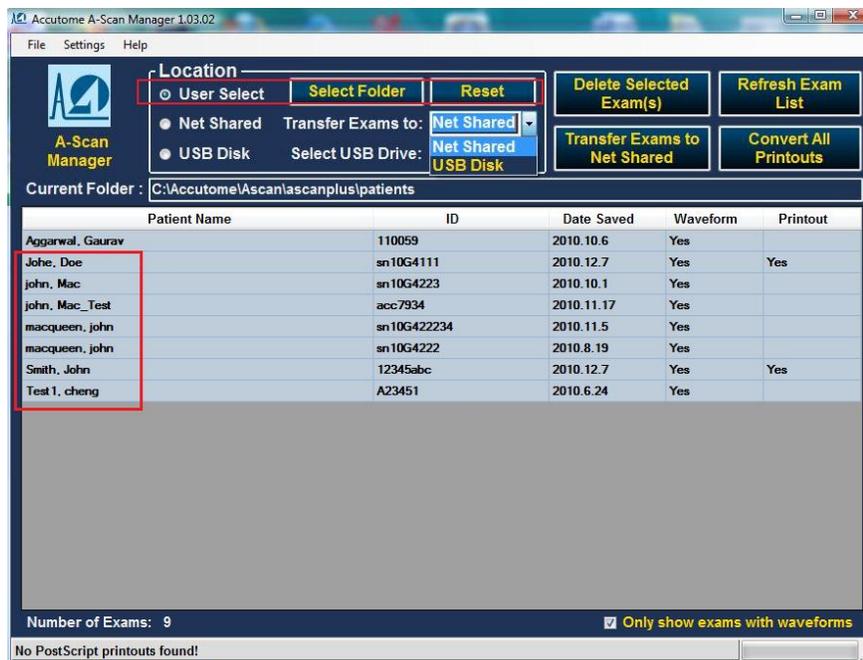
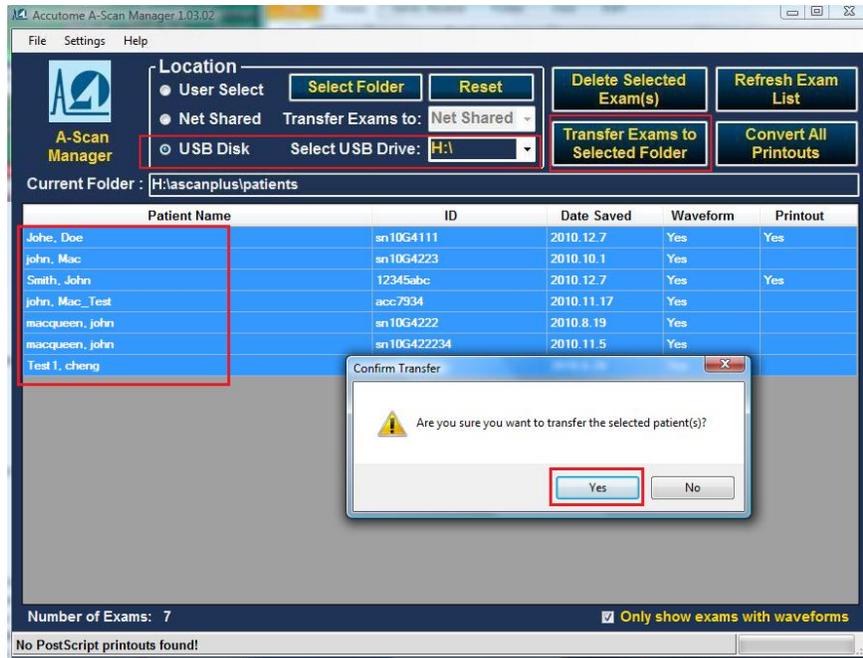
#### 1.7.1.1 Transfer Exams from Internal memory to USB disk

Plug-in a USB disk to the A-Scan Plus unit you want to backup and enter “**Patient Record**” menu. Press “**Select Location**” to switch from “**A-Scan Memory**” to “**USB Disk**”. It will mount the USB disk to the operating system. Press “**Select Location**” again to switch back to “**A-Scan Memory**”. Keep pressing the “[**MENU**]” until you see “**Transfer [MENU]**” menu. Press “**Select All**” to select all exams from the list or use “**Select for Transfer**” to select individual exam. Press “**Transfer**” to start transferring (see figure below). Wait until the LED on the USB disk stops flashing, then un-plug it from the unit.



### 1.7.1.2 Transfer Exams from USB disk to PC Folder

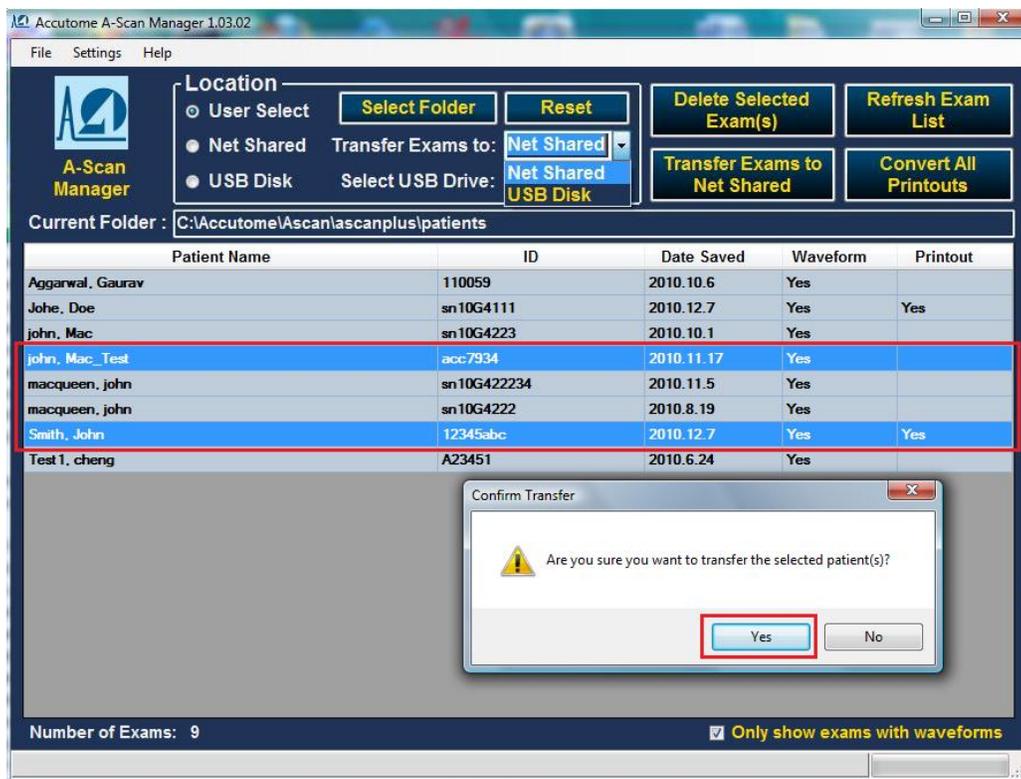
Start the **A-Scan Manager** on the PC and plug-in the USB disk with all the data. It should detect the USB disk and switch to USB disk location automatically. A list of exams on the USB disk should appear. Select all Exams you need to backup and press **“Transfer Exam to Folder”**. Then, click **“Yes”** on the dialog message. All selected exams will be copied from USB disk to a user defined folder.



## 1.7.2 Restore Exams to A-Scan Plus

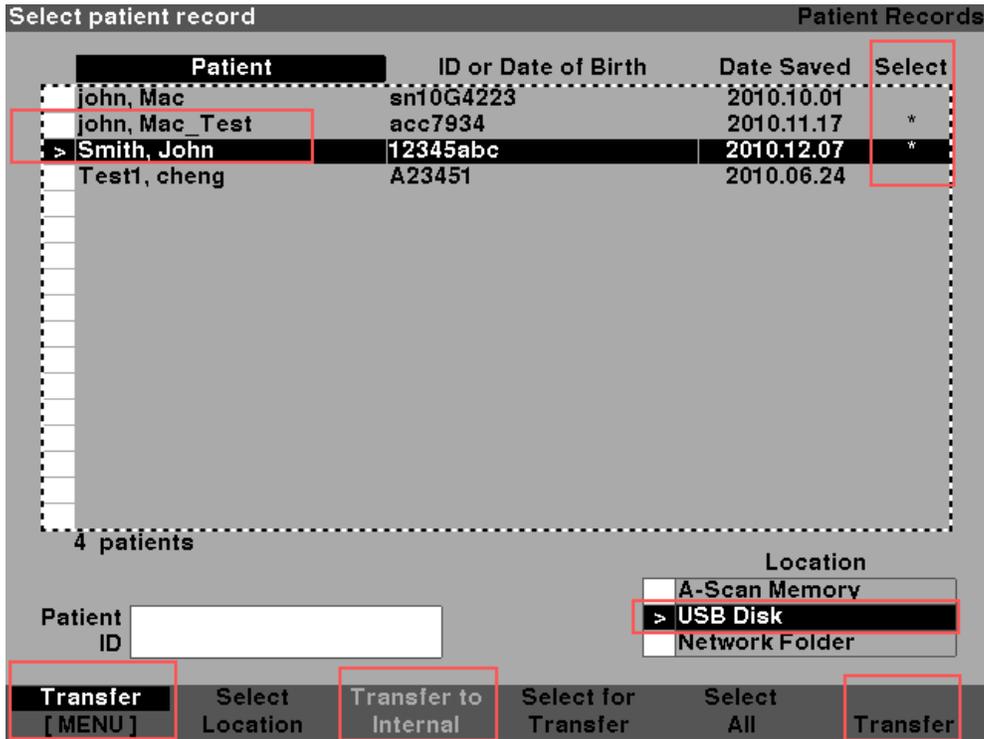
### 1.7.2.1 Transfer Exams from PC Folder to USB disk

Plug-in a USB disk to the PC and start **A-Scan Manager**. Since the USB disk is plugged in, the default location will be “USB Disk”. Click “User Select” to switch to the folder of the backup exams. If the folder is not the one that has the exams, use “Select Folder” to change to the correct one. Select the exams that need to be restored (you can select multiple exams by holding “Ctrl” key and selecting). Click “Transfer Exams to USB Disk” and answer “Yes” on the dialog box. After the transfer is done, un-plug the USB disk from PC.

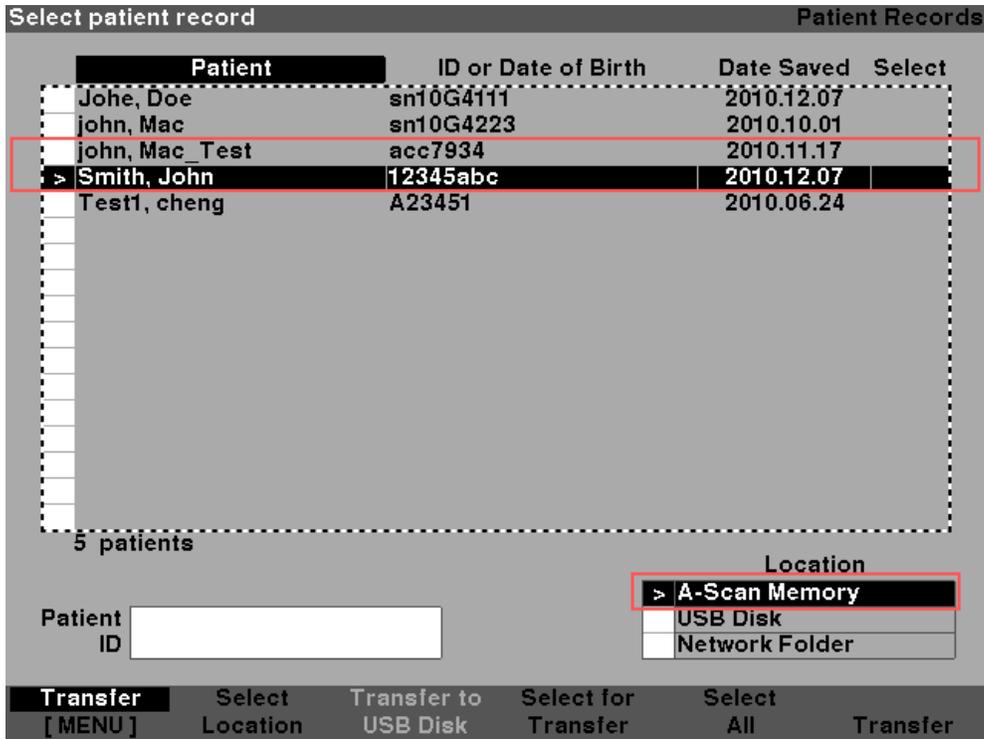


### 1.7.2.2 Transfer Exams from USB disk to Internal memory

Plug-in a USB disk to the A-Scan Plus unit and enter “**Patient Record**” menu. Press “**Select Location**” to switch from “**A-Scan Memory**” to “**USB Disk**”. It will mount the USB disk and list all the exams on the USB disk. Keep pressing the “[**MENU**]” button on A-scan until you see “**Transfer [MENU]**”. Press “**Select for Transfer**” or “**Select All**” to select exams to restore. Press “**Transfer**” to restore exams (see figure below).



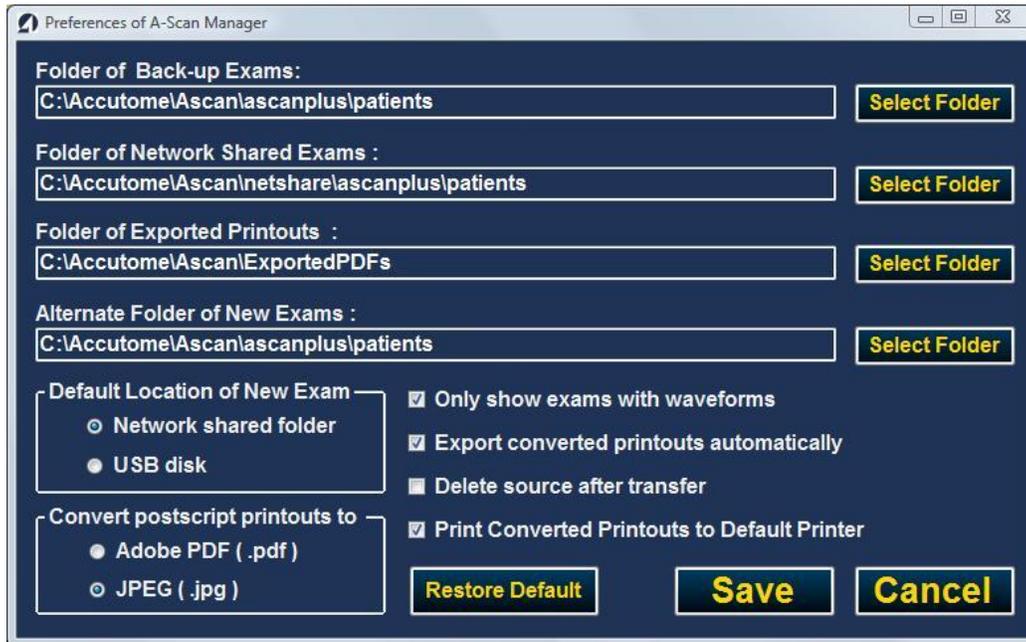
Select exams and transfer them from USB disk.



Exams restored to the A-Scan Plus unit.

## 2. Preferences

Click “**Settings**” on menu bar at the top and select “**Preferences**” to access operational parameters for the A-Scan Manager application. When the program starts, the values on the A-Scan Manager Exam will default to those selected on the “**Preferences**” screen.



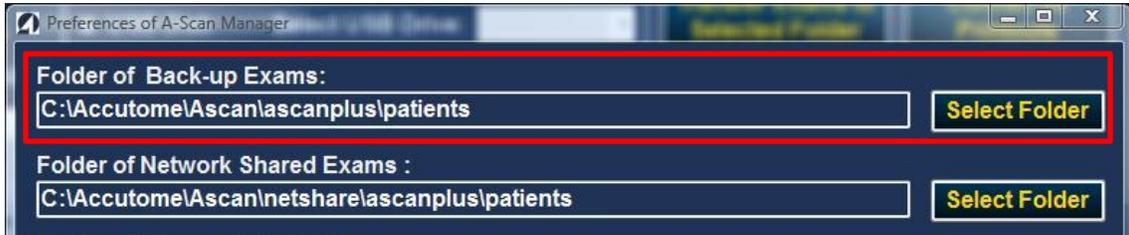
The options that can be set are:

- **Folder of back-up exams**
- **Folder of network shared exams**
- **Folder of exported printouts**
- **Alternate folder of new exams**
- **Default location of new exams**
- **Only show exams with waveforms**
- **Convert postscript printouts to**
- **Export converted printouts automatically**
- **Delete source after transfer**

### 2.1 Folder of back-up exams

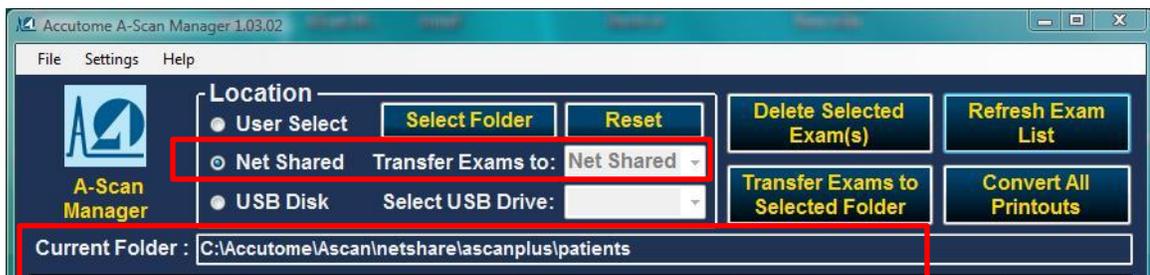
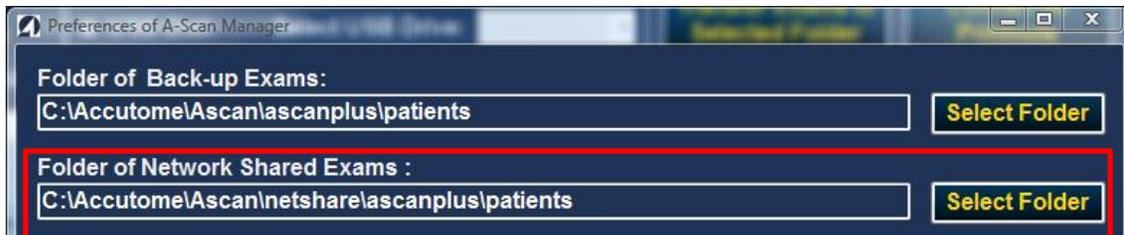
This is the folder where all back-up exams will be stored. The default folder is “**C:\Accutome\Ascan\ascanplus\patients**”. Users can change the folder by clicking on

“Select Folder” button next to the value. The changes will affect the “User Select” in “Location” of the main menu.



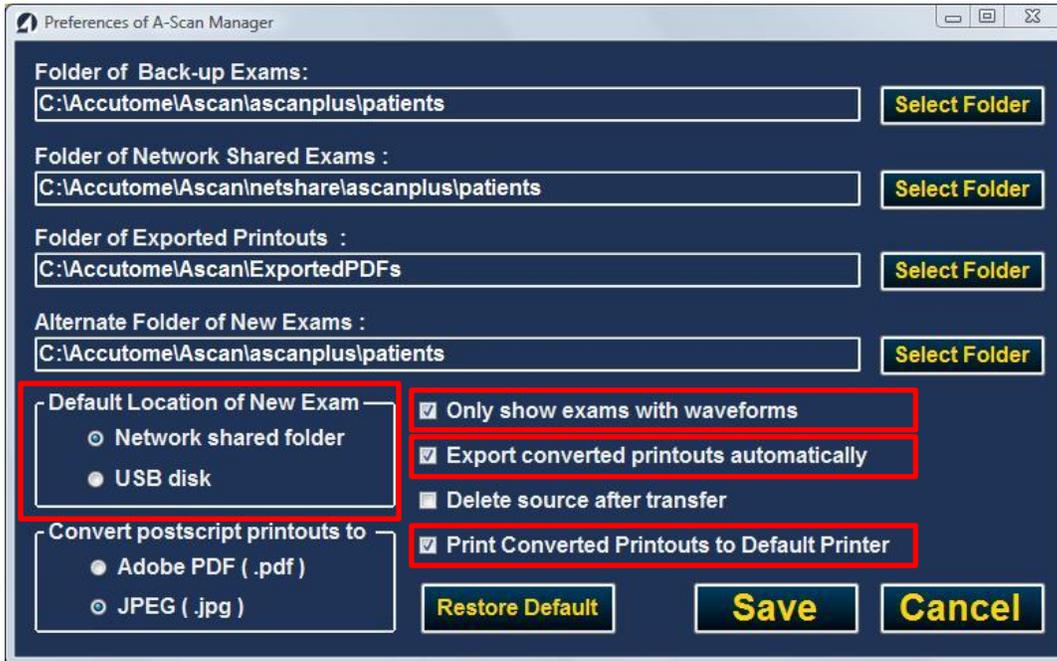
## 2.2 Folder of network shared exams

This is the folder which was shared to A-Scan Plus via network. Users have to use the Windows folder “properties” to share out this folder. The default name of the folder is “C:\Accutome\Ascan\netshare\ascanplus\patients” and it was created by the installation of version 1.03.03 and newer. You can change it using “Select folder” button. **Note: Please make sure you create both patients and printouts folders under the same parent folder.**



### 2.3 Folder of export printouts

The destination of exported printouts should be the import folder of your EMR system. If you turn on “**Export converted printouts automatically**”, the converted printouts will be copied to that folder automatically. We picked a folder name “**C:\Export to EMR\**” as an example.



### 2.4 Default location of new exam

Radio buttons toggles the option between “**Network shared folder**” and “**USB disk**”. The network shared folder is the preferred way if it is available because it will requires less user interaction.

### 2.5 Convert postscript printouts to

This radio buttons sets the format which all printouts will convert to. User can select either PDF or JPEG format. PDF is the system default.

### 2.6 Only show exams with waveforms

This checkbox toggles the option to “**Only show exams with waveform**” when program starts. If the box is checked, the list of exams on main window will show those exams with waveforms only. It is useful when we create an exam from command-line and reload them. In this case, two exams have same name, ID, and date. We can hide the one without waveforms.

## 2.7 Export converted printouts automatically

This checkbox toggles the option to “**Export converted printouts automatically**“. If the box is checked then the program will make a copy of converted printouts and place it in a user defined folder. It is useful when users want to send printouts to EMR.

## 2.8 Delete source after transfer

This checkbox toggles the option to “**Delete source after transfer**“. If the box is un-checked (Default), the transfer function acts as a copy or duplicate. When box is checked, it simply moves the file from one destination to the other.

## 2.9 Print Converted Printouts to Default Printer

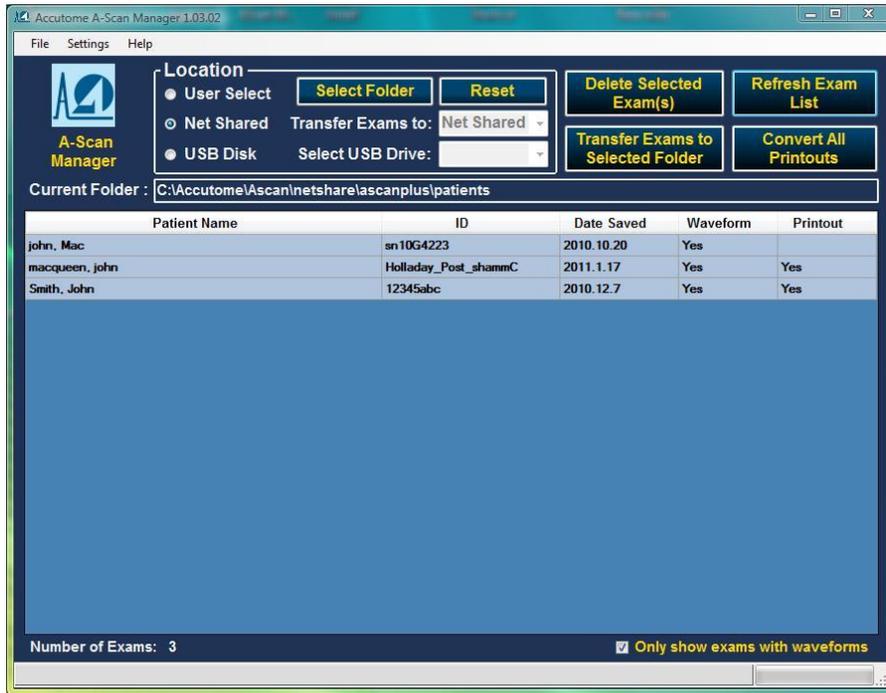
This checkbox toggles the option to “**Print Converted Printouts to Default Printer**“. When box is checked, a paper copy of the printouts will be sent to default printer automatically. If the box is un-checked (Default), no paper copy will be printed.

### 3. The A-Scan Manager Application

There are two ways to run the A-Scan Manager. The first way, the standard way with GUI, starts from the “**Launch Ascan Manager**” icon on the desktop. The other way is to call from command-line; please see **section 1.5** for details. **NOTE: Multiple instances of A-Scan Manager may run at the same time.** For example, users can launch the A-Scan Manager with GUI and another program, such as EMR, via command-line. Be careful not to make any changes in “**Preferences**” while command-line version is running. We are focusing on using the program with GUI in this chapter.

#### 3.1 Main Window

When the program starts, it first checks that the USB disk is plugged in. If one is found it sets the location to “**USB Disk**”. If none was found then it uses “**User Select**” mode and the current folder sets to the user selected default folder. The list of the exams will be updated automatically.



The main window displays:

- Name of the Program and Version Number
- Location
- List of Exams in Current Folder
- Path to Current Folder
- File
- Settings

- Help
- Delete Selected Exam(s)
- Transfer Exams
- Refresh Exams List
- Convert All Printouts
- Number of Exams
- Only show exams with waveform checkbox
- Status Bar

### 3.1.1 Name of the Program and Version Number

The version number of the A-Scan Manager displays on the frame of the windows.



### 3.1.2 Location

Location has radio buttons to choose between three modes. The “**User Select**” mode uses the folder selected by the user. The “**Select Folder**” button allows you to change the current folder to any folder available to the user, local or network shared. “**Reset**” button restores the current folder back to user defined default folder. “**Net Shared**” is the folder which was shared via network.

The “**USB Disk**” is designed to transfer exams and printouts to and from the A-scan Plus. It relies on a specific path on the USB disk. The “**Select USB Drive**” drop-down menu allows the user to select different drives if there are more than one USB disks plugged in.

**NOTE: If a USB disk is plugged in to the PC, the program will automatically detect it and switch to USB Disk mode. Also, the system can detect the removal of the USB disk and switch to “User Select”.**



### 3.1.3 List of Exams in Current Folder

The list displays exams in the current folder. Users can re-sort the list by clicking on the title bar of each column. The waveform and printout columns indicate which patients have already been scanned and whether or not printouts were generated.

Current Folder : C:\Accutome\Ascan\netshare\ascanplus\patients

Patient Name	ID	DOB	Date Saved	Waveform	Printout
Cohen, Jeremy	11b4207		4/7/2011	Yes	
Cohen, Jeremy	11D4305		4/7/2011	Yes	
Cohen, Jeremy	345234	3/2/1942	2/28/2011	Yes	
john, Mac	sn10G4223		10/20/2010	Yes	
JONES, JENG	CHENG-TEST1245	11/10/1957	3/14/2011	Yes	
macqueen, john	Holladay_Post_shammC		1/17/2011	Yes	
macqueen, john	sn10G4222		3/1/2011	Yes	
O'Connor, Daniel	34577	5/24/1934	2/28/2011	Yes	
Shaw, Karen	11b4207		4/7/2011	Yes	
Shaw, Karen	11D4305		4/7/2011	Yes	
Smith, John	12345abc	2/27/1988	7/8/2011	Yes	
sss, bbb			4/8/2011		
Streifert, Laura-probe2	11b4207		4/7/2011	Yes	
Streifert, Laura	11b4207		4/7/2011	Yes	
Streifert, Laura	11b4207		4/7/2011	Yes	
Streifert, Laura	11D4305		4/7/2011	Yes	
Test, No-waveform-no-printouts			8/23/2011		
test, NO_waveform	asd12345		4/7/2011		

Number of Exams: 73  Only show exams with waveforms or printouts

Users can click and select a row. To select more than one row, just press and hold “Ctrl” key and click on additional rows.

Current Folder : C:\Accutome\Ascan\netshare\ascanplus\patients

Patient Name	ID	DOB	Date Saved	Waveform	Printout
Cheng, Chang	11b4207-SRKT		7/19/2011	Yes	
Cheng, Chang	11b4207		4/7/2011	Yes	
Cheng, Chang	11D4305		4/7/2011	Yes	
Cohen, Jeremy	11b4207		4/7/2011	Yes	
Cohen, Jeremy	11D4305		4/7/2011	Yes	
Cohen, Jeremy	345234	3/2/1942	2/28/2011	Yes	
john, Mac	sn10G4223		10/20/2010	Yes	
JONES, JENG	CHENG-TEST1245	11/10/1957	3/14/2011	Yes	
macqueen, john	Holladay_Post_shammC		1/17/2011	Yes	
macqueen, john	sn10G4222		3/1/2011	Yes	
O'Connor, Daniel	34577	5/24/1934	2/28/2011	Yes	
Shaw, Karen	11b4207		4/7/2011	Yes	
Shaw, Karen	11D4305		4/7/2011	Yes	
Smith, John	12345abc	2/27/1988	7/8/2011	Yes	
Streifert, Laura-probe2	11b4207		4/7/2011	Yes	
Streifert, Laura	11b4207		4/7/2011	Yes	
Streifert, Laura	11b4207		4/7/2011	Yes	
Streifert, Laura	11D4305		4/7/2011	Yes	

Number of Exams: 73  Only show exams with waveforms or printouts

### 3.1.4 Path to Current Folder

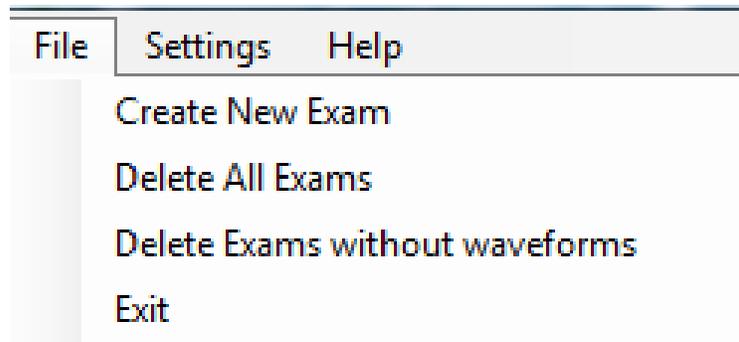
The box next to “Current Folder” displays the path of the current folder.



### 3.1.5 File

The “**File**” drop-down menu on the top menu bar has the following selections:

- **Create New Exam**
- **Delete All Exams**
- **Delete Exams without waveforms**
- **Exit**



#### 3.1.5.1 Create New Exam

Generate a new exam using GUI. Please read section 3.3 for details.

#### 3.1.5.2 Delete All Exams

Delete all exams in the **current folder**.

#### 3.1.5.3 Delete Exams without waveforms

Delete all exams, which have no waveforms, in the **current folder**.

### 3.1.5.4 Exit

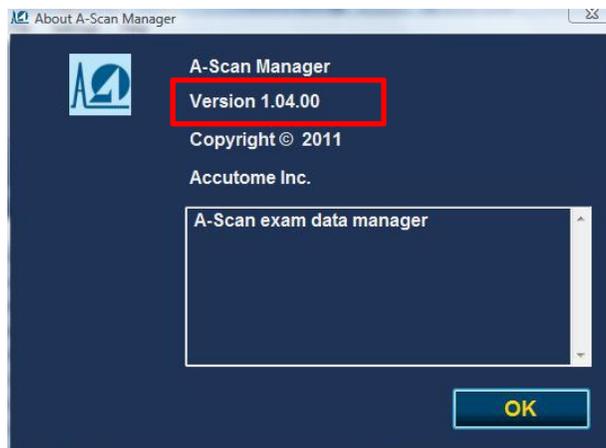
Exit the A-scan Manager program.

### 3.1.6 Settings

The only selection in the “**Settings**” drop-down menu is preferences. Please see Chapter 2 of this guide.

### 3.1.7 Help

The only selection in the “**Help**” drop-down menu is “**About**”. It displays information about the current running version of the software.



### 3.1.8 Delete Selected Exam(s)

Delete the exam(s) selected by user. Press “**OK**” in the pop-out confirmation window to delete the studies.

### 3.1.9 Transfer Exams

Allows user to transfer selected exams between “**User Select**” and “**USB Disk**”. The caption of the button will automatically update when the mode of location changes. This function is used mostly in backing up and restoring exams.

### 3.1.10 Refresh Exams List

In some situations, the exams in the current folder may have been modified by another application or a user may add/remove exams using Windows tools. Click this button to re-sync the list with the changes.

### 3.1.11 Convert All Printouts

This function will convert all Postscript printouts in the folder called “**printouts**”. It is used mostly to convert printouts from USB disk. A message or confirmation dialog box will pop-up.

### 3.1.12 Number of Exams

Displays total number of exams in the current folder. If the option “**Only Show exams with waveforms**” is checked, then the number of rows listed could be less than the total number of exams.

Current Folder : C:\Accutome\Ascan\netshare\ascanplus\patients

Patient Name	ID	DOB	Date Saved	Waveform	Printout
Cheng, Chang	11b4207-SRKT		7/19/2011	Yes	
Cheng, Chang	11b4207		4/7/2011	Yes	
Cheng, Chang	11D4305		4/7/2011	Yes	
Cohen, Jeremy	11b4207		4/7/2011	Yes	
Cohen, Jeremy	11D4305		4/7/2011	Yes	
Cohen, Jeremy	345234	3/2/1942	2/28/2011	Yes	
John, Mac	sn10G4223		10/20/2010	Yes	
JONES, JENG	CHENG-TEST1245	11/10/1957	3/14/2011	Yes	
macqueen, john	Holladay_Post_shammC		1/17/2011	Yes	
macqueen, john	sn10G4222		3/1/2011	Yes	
O'Connor, Daniel	34577	5/24/1934	2/28/2011	Yes	
Shaw, Karen	11b4207		4/7/2011	Yes	
Shaw, Karen	11D4305		4/7/2011	Yes	
Smith, John	12345abc	2/27/1988	7/8/2011	Yes	
Streifert, Laura-probe2	11b4207		4/7/2011	Yes	
Streifert, Laura	11b4207		4/7/2011	Yes	
Streifert, Laura	11b4207		4/7/2011	Yes	
Streifert, Laura	11D4305		4/7/2011	Yes	

Number of Exams: 73  Only show exams with waveforms or printouts

### 3.1.13 Only Show Exams with Waveforms or Printouts

The following figures show the differences between option checked and un-checked.

Current Folder : C:\Accutome\Ascan\netshare\ascanplus\patients

Patient Name	ID	DOB	Date Saved	Waveform	Printout
Cohen, Jeremy	11b4207		4/7/2011	Yes	
Cohen, Jeremy	11D4305		4/7/2011	Yes	
Cohen, Jeremy	345234	3/2/1942	2/28/2011	Yes	
John, Mac	sn10G4223		10/20/2010	Yes	
JONES, JENG	CHENG-TEST1245	11/10/1957	3/14/2011	Yes	
macqueen, john	Holladay_Post_shammC		1/17/2011	Yes	
macqueen, john	sn10G4222		3/1/2011	Yes	
O'Connor, Daniel	34577	5/24/1934	2/28/2011	Yes	
Shaw, Karen	11b4207		4/7/2011	Yes	
Shaw, Karen	11D4305		4/7/2011	Yes	
Smith, John	12345abc	2/27/1988	7/8/2011	Yes	
sss, bbb			4/8/2011		
Streifert, Laura-probe2	11b4207		4/7/2011	Yes	
Streifert, Laura	11b4207		4/7/2011	Yes	
Streifert, Laura	11b4207		4/7/2011	Yes	
Streifert, Laura	11D4305		4/7/2011	Yes	
Test, No-waveform-no-printouts			8/23/2011		
test, NO_waveform	asd12345		4/7/2011		

Number of Exams: 73  Only show exams with waveforms or printouts

### 3.1.14 Status Bar

Displays messages of some system activities, such as presence of USB disk and converting of several printouts.

### 3.2 Review Exam Window

Double clicking any row will open the following window which displays detailed information of the exam.

Review Exam: Chandler\_Brian\_11b4207-Holladay\_20110707\_113109.upt

Patient:  Remark:

ID:

Measurement **Calculation**

Acquired Date : 7/4/2011

Eye Type

Scan Method

**OD**

AXL **23.06 mm**

ACD **3.62 mm**

Lens **4.83 mm**

VCD **14.62 mm**

Scan	AXL	ACD	Lens	VCD
1	23.05	3.61	4.82	14.62
2	23.08	3.60	4.86	14.62
3	23.06	3.63	4.81	14.62
4	23.05	3.61	4.82	14.62
5	23.07	3.63	4.82	14.62
Avg	23.06	3.62	4.83	14.62
Dev	0.01	0.01	0.02	0.00

Printouts

The review exam window displays:

- Path of current exam
- Patient name, ID, and Remark
- Measurement Tab
- OD/OS Toggle
- View All Printouts
- Export Printouts
- Pull-down menu to select individual printouts

**NOTE: If there are no printouts associated with the exam, the buttons and drop-down menus related to printouts will be disabled.**

### 3.2.1 Path of current exam

The name and path of the exam file is displayed in the top frame of the window.

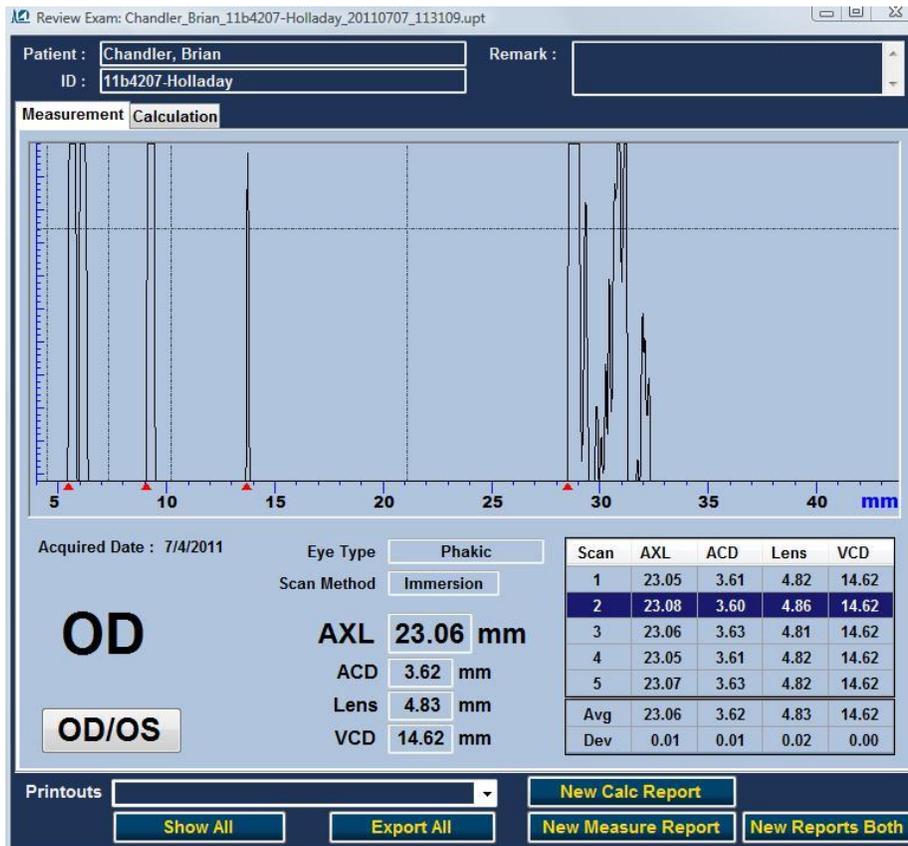


### 3.2.2 Patient name, ID, and Remark

Three read only fields display the full name of the patient, ID, and remarks of the exam.

### 3.2.3 Measurement Tab

The measurement tab displays the waveform of the high-lighted measurement. User can click any row on the table to select which waveform to display. If any rows of table shows "---", it means there is no waveform of that scan.



### 3.2.4 Calculation Tab

The calculation tab displays the results of the calculation on the A-Scan Plus units. You can only review the results and make new printouts. Any changes or re-calculation has to be done in the A-Scan Plus unit.

Review Exam: Chandler\_Brian\_11b4207-Holladay\_20110707\_113109.upt

Patient :  Remark :

ID :

Measurement **Calculation**

Group	Burns					
	Restor		Toric/Crystal		monofocal	
IOL						
Hoffer Q	5.490		5.550		5.370	
Holladay	1.732		1.791		1.616	
SRK/T	5.530		5.590		5.400	
Haigis	1.839	0.400	0.100	1.903	0.400	0.100
A-Const	118.90		119.00		118.69	
	Power	Refr	Power	Refr	Power	Refr
	21.50	0.52	21.50	0.60	21.00	0.70
	22.00	0.18	22.00	0.26	21.50	0.36
	22.50	-0.16	22.50	-0.07	22.00	0.01
	23.00	-0.51	23.00	-0.42	22.50	-0.33
	23.50	-0.86	23.50	-0.76	23.00	-0.68
Target	22.26		22.39		22.02	
Emme	22.26		22.39		22.02	

**OD**

K Index

Eye Type

Formula

Rx Surg

**AXL 23.06 mm**

K1  D

K2  D

Target  D

	AXL
1	23.05
2	23.08
3	23.06
4	23.05
5	23.07
Avg	23.06
Dev	0.01

**OD/OS**

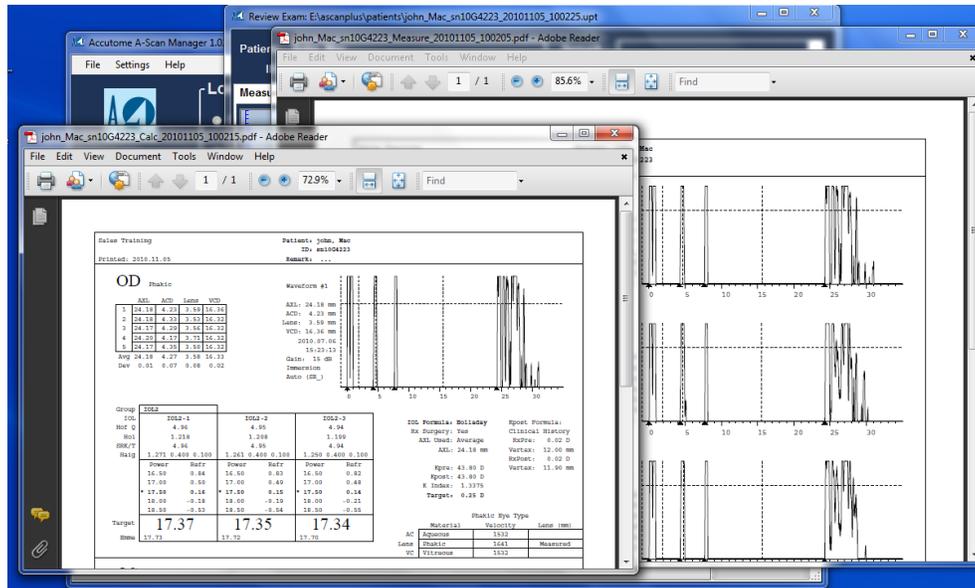
Printouts

### 3.2.5 OD/OS Toggle

Choose between OD and OS. The waveform display and table of measurement results will sync with the toggle.

### 3.2.6 View All Printouts

Displays all converted printouts. The program which displays the printouts will be decided by the operating system.



### 3.2.7 Export Printouts

If “**Export converted printouts automatically**” option is selected in preferences, this is the way to export the converted printouts to a user defined folder.

### 3.2.8 Drop-down menu to display single printout

The drop-down menu allows users to select single printouts to be displayed.

### 3.2.9 New Calc Report

Generates a calculation report and values are based on the calculation results from A-Scan Plus units.

### 3.2.10 New Measure Report

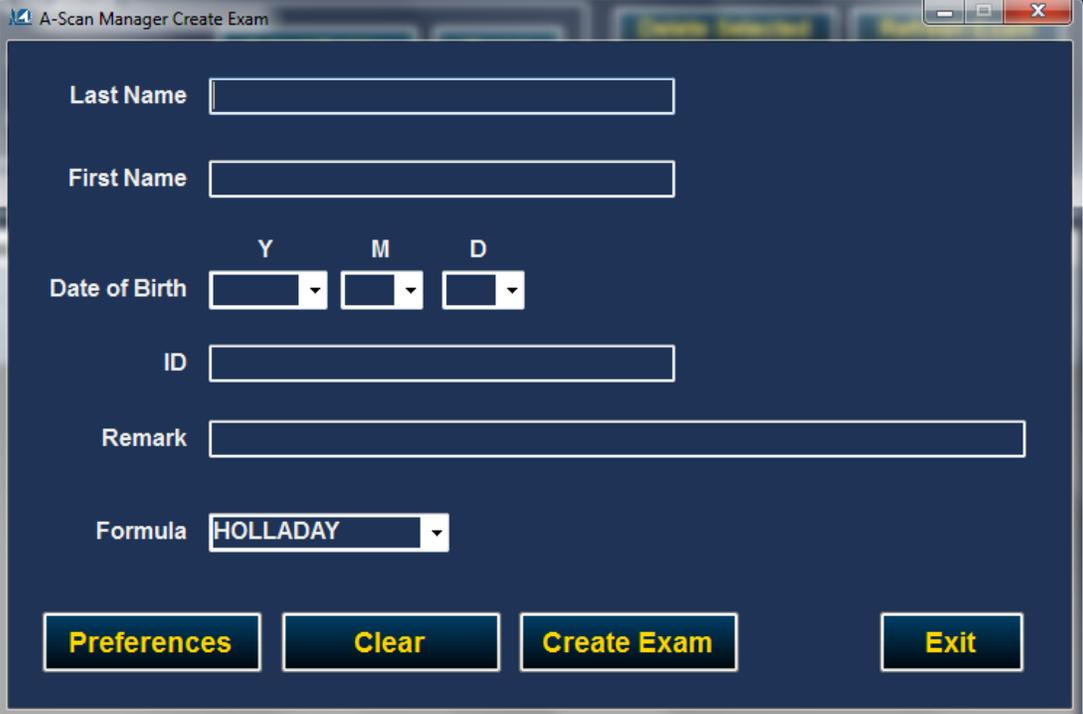
Generates measurement reports of both eyes if both eyes were measured. based on the measurements from A-Scan Plus unit.

### 3.2.11 New Reports Both

Generates both calculation and measurement reports of current study.

### 3.3 Create Exam Window

Select “**Create New Exam**” from “**File**” in section 3.1.5 will open the following window:



The screenshot shows a window titled "A-Scan Manager Create Exam". The window contains the following elements:

- Last Name:
- First Name:
- Date of Birth: Y , M , D
- ID:
- Remark:
- Formula:
- Buttons: Preferences, Clear, Create Exam, Exit

The new exam window displays:

- Last Name
- First Name
- Date of Birth
- ID
- Remark
- Formula
- Preferences
- Clear
- Create Exam
- Exit

### **3.3.1 Last Name**

Enter patient's last name with no spaces.

### **3.3.2 First Name**

Enter patient's first name with no spaces.

### **3.3.3 Date of Birth**

Use the drop-down menu to select year, month and date. You can enter value as well.

### **3.3.4 ID**

Enter patient's ID with no spaces.

### **3.3.5 Remark**

Enter any remarks for the exam.

### **3.3.6 Formula**

Select IOL calculation formula from the drop-down menu. The default is "**Holladay**".

### **3.3.7 Preferences**

Same function as using "**Settings**" on the main window. This gives the user a chance to make changes for "**Alternate destination of new exam**" before creating the new exam.

### **3.3.8 Clear**

Clear all fields and create another new exam.

### **3.3.9 Create Exam**

Generate a new exam using the data. Dialog boxes will pop-up to confirm the creation.

### **3.3.10 Exit**

Exit the create exam window.