

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.

AutoPlay
DVD Drive (D:) A-Scan Manager
Always do this for software and games:
Install or run program from your media
Run setup.exe Publisher not specified
General options
Open folder to view files using Windows Explorer
View more AutoPlay options in Control Panel

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.

W	/inZip	Self-Extractor - gs900w32.exe		
	g	This installs GPL Ghostscript 9.00. GPL Ghostscript displays, prints and converts PostScript and PDF files.	Setup Cancel About	

1.1.7 You can leave all settings in the "Setup" dialog as defaults. Click "Install".

GPL Ghostscr	ipt Setup				U	x	
g	This installs GPL Gho Copyright (C) 1 Requires 40 M	stscript 9.00 994-2010 Artifex 9 Ibytes disk space.	ioftware, Inc. A	II rights res	served.		
Install to dire	ctory Files\gs				Browse	[
Add shortcut	s to		🗖 All Users				
Ghostscript					Browse		
Cancel		Help			Install) >
Cancel	ograms ► Ghosts	Help	↓ 4 ₂ Sec	arch Ghostso	Install cript		
Cancel	ograms ► Ghosts :lude in library ▼	Cript	▼ ↓ Sec New folder	arch Ghostse	ript		
Cancel	ograms > Ghosts clude in library ~ Name B Ghosts B Ghosts	cript Share with • stscript 9.00 stscript Readme 9.00	✓ 49 Sec New folder	Date m 12/2/20	install	Type Shortcu	ıt ıt
Cancel	ograms > Ghosts clude in library ~ Name B Ghost B Ghost	cript Share with V stscript 9.00 stscript Readme 9.00	Vew folder	Date mi 12/2/20 12/2/20	rript ⊕≣ ↓ odified 10 3:13 PM 10 3:13 PM	Type Shortcu	ıt ıt

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".

900w32.e

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.

A-Scan Manager	Location User Select Select Net Shared Transfer E USB Disk Select USE	Folder Reset	Transfer Exam(s Selected F	ected s) ams to folder	Refresh Exar List Convert All Printouts
Current Folder	C:\Accutome\Ascan\netshare\a	ascanplus\patients			
	Patient Name	ID	Date Saved	Waveform	Printout
john, Mac		Shiluday Post sharm	2010.10.20	Tes	Yoo
Smith John		12345abc	2010 12 7	Yes	Yes

1.3 Simple Preferences Setting

Computer

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

A-Scan Manager Current Ender: Clarcutomelascaninats	sfer Exams to: Net Shared	Delete Sel Exam(Transfer Ex Selected F	ected s) ams to Folder	efresh Exam List Convert All Printouts
Patient Name	ID	Date Saved	Waveform	Printout
rror. Testing3		2011.3.7	Yes	· ······
ohn, Mac	sn 10G4223	2010.10.20	Yes	
acqueen, john	Holladay Post shammC	2011.1.17	Yes	
mith, John	12345abc	2010.12.7	Yes	

- 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:** <u>This is</u> <u>very useful to export printouts to EMR</u>.

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.

Preferences of A-Scan Manager	
Folder of Back-up Exams: C:\Accutome\Ascan\ascanplus\pation	ents Select Folder
Folder of Network Shared Exams : C:\Accutome\Ascan\netshare\ascar	nplus\patients Select Folder
Folder of Exported Printouts: C:\Accutome\Ascan\ExportedPDFs	Select Folder
Alternate Folder of New Exams : C:\Accutome\Ascan\ascanplus\pation	ents Select Folder
- Default Location of New Exam —	 Only show exams with waveforms Export converted printouts automatically Delete source after transfer
- Convert postscript printouts to	Print Converted Printouts to Default Printer Restore Default Save Cancel

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

Note: Please refer to instruction "<u>Setup Network File Sharing between Windows PC</u> and A-Scan Plus" for detail. Following snapshot shows the final setup after we enter above information.

Printer			Setup
Printer	Print to postscript	file (Netv	work Folder Update
Print Title	Accutome AUI]	K Index 1.3375
			IOL Step 0.50 D
Network Address	Automatic]	Network Folder On
IP Address	10.2.1.156	Host	BSCANWIN7PR05
Subnet Mask	255.255.255.0	Folder	netshare
Gateway Address	10.2.1.1	User Pword	ascanshare
Contract		1 Mora	
	New Patient Defaults		Date/Time Y M D 2011 . 03 . 02
Eye Type	Phakic		
D]	
Gain	15	dB	
Target	0.00	D	Retina On Stable Off
Sound ON Resta	art ON Scr Save ON S Int OFF Scr Save OFF G	ave ates	About This Unit Done

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.

Select printer				Setup
Printer	None			date
	Print to pdf file (Ne	twork Folder)	I	
Print Ti <mark>r</mark> le	Print to postscript	file (Network	Folder	
	Print to pat file (US	SB DISK)		
	Print to postscript	file (USB Disk	¢)	
	Custom			
Network Address	Generic PostScrip	t Printer		
	Generic PCL 3 Prin	ter		On
IP Address	Generic PCL 5c/5e	Printer (ljet4)		
Subnet Mask	Generic PCL 5 Prin	ter (ljet3d) 👘		
Gateway Address	Generic PCL 5 Prin	ter Type 2 (lje	t3)	
	Generic PCL 6 Prin	ter (color)		
Contrast	Generic PCL 6 Prin	ter (lj5gray)		
	Generic PCL 6 Prin	ter (mono)		
	Generic PostScrip	t Level 1 Print	er	ב
	Generic OAKT			24
Eye Type	Generic ZjStream			e .
	HP Color LaserJet	1500		20
ID :	HP Color LaserJet	1600		
	HP Color Laserjet	2600n		
Gain	HP Color LaserJet	CP1215		
	HP Color LaserJet	Pro CP1025m	v	
Target	HP Deskjet 1000			1
	HP Deskjet 1100			
Sound ON Restar	t ON Scr Save ON	Save	About	
Sound OFF Restart	OFF Scr Save OFF	Gates	This Unit	Done

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<u>: If users just want to export printouts, this step is optional. However, it is</u> 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.

	ecora		Patient Records
Itest, oleg john, Mac Smith, Jo macquee TEST1, Li O'Connor Barrett, E Cohen, Je Baldwin, I macquee JONES, J testing, c	Patient hn n, john OCATION CATION , john eremy Robert n, john ENG hang	ID or Date of Bi sn10G4223 12345abc Holladay_Post_shat TESTING2345 34577 54673 345234 123445678 sn10G4222 CHENG-TEST1245 Test03082011	rth Date Saved Select 2010.08.18 2010.10.20 2010.12.07 mmC 2011.01.17 2011.02.28 2011.02.28 2011.02.28 2011.02.28 2011.02.28 2011.02.28 2011.03.14 2011.03.16
12 patients Patient ID	5		Location A-Scan Memory USB Disk > Network Folder
Save/Recall	Select Location	Save Recall to List from Lis	Start New Patient st Patient Data
Select patient r	aaard		Destruct Descurte
	ecoru		Patient Records
jóhn, Mac Smith, Jo > macquee O'Connor JONES, J	Patient hn , john , Daniel ENG	ID or Date of Bi sn10G4223 12345abc Holladay_Post_sha 34577 CHENG-TEST1245	Patient Records rth Date Saved Select 2010.10.20 2010.12.07 mmC 2011.01.17 2011.02.28 2011.03.14
john, Mac Smith, Jo > macquee O'Connor JONES, J JONES, J 5 patient ID	Patient hn , john , Daniel ENG	ID or Date of Bi sn10G4223 12345abc Holladay_Post_sha 34577 CHENG-TEST1245	Location A-Scan Memory > USB Disk Network Folder

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**".

Accutome A-scan Manac	ger 1.03.02 Histolik initial	Sectory .			- • ×
File Settings Help					
A-Scan Manager	Location User Select Select Fo Net Shared Transfer Exa USB Disk Select USE	older Reset ams to: Net Shared + 3 Drive: +	Delete Sele Exam(s Transfer Exa Selected Fe	ams to older	efresh Exam List Convert All Printouts
Current Folder : C	:\Accutome\Ascan\netshare\asc	canplus\patients			
Pa	atient Name	ID	Date Saved	Waveform	Printout
ohn, Mac		sn10G4223	2010.10.20	Yes	
nacqueen, john		Holladay_Post_shammC	2011.1.17	Yes	Yes
Smith, John		12345abc	2010.12.7	Yes	Yes
Number of Exams:	3		Z Only	show exams w	vith waveforms

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.

A-Scan Manager Ø USB Disk S Current Folder : Httascanplusipatients	Select Folder Reset ansfer Exams to: Net Share elect USB Drive: H:\	Delete Sel Exam(Transfer Ex Selected F	ected s) ams to Folder	Refresh Exam List Convert All Printouts
Patient Name	ID	Date Saved	Waveform	Printout
nacqueen, john	sn10G4222	2010.12.3	Yes	Yes
ohe, Doe	sn10G4111	2010.12.15	Yes	Yes
TEST1, LOCATION	TESTING2345	2011.2.7	Yes	
Number of Exams: 3		⊠ Ontj	y show exams	with waveforms

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:** <u>It can be used by other</u> <u>applications, such as EMR, to generate new exams automatically to reduce human</u> <u>errors.</u>

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:

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

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:** <u>This is because we do</u> 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.

Select patient record			Pati	ent Records
Patient	ID o ISn10G41	r Date of Birth	Date Save	d Select
john, Mac john, Mac_Test macqueen, john macqueen, john Test1, cheng	sn10G41 acc7934 sn10G42 sn10G42 A23451	23 22 2234	2010.12.07 2010.10.01 2010.11.17 2010.08.19 2010.11.05 2010.06.24	
6 patients				
			Locati A-Scan Memo	on ry
Patient ID			Network Folde	r
Transfer Selec [MENU] Locatio	t Transfer to on USB Disk	Select for Transfer	Select All	Transfer

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.

A-Scan Manager OUSB D Current Folder : H:\ascanplu	slpatients	Reset Delete S Shared C Transfer E Selected	elected n(s) Exams to I Folder	efresh Exam List Convert All Printouts
Patient Name	ID	Date Saved	Waveform	Printout
ohe, Doe	sn10G4111	2010.12.7	Yes	Yes
hn, Mac	sn10G4223	2010.10.1	Yes	
mith, John	12345abc	2010.12.7	Yes	Yes
hn, Mac_Test	acc7934	2010.11.17	Yes	
acqueen, john	sn10G4222	2010.8.19	Yes	
acqueen, john	sn 10G422234	2010.11.5	Yes	
est1, cheng	Confirm Transfer	sure you want to transfer the selec	ted patient(s)?	
		Yes	No	J

C:\Accutome\Ascan\ascanplus\patients Patient Name ID Date Saved Waveform Printout Aggarwal, Gaurav 110059 2010.10.6 Yes Yes Johe, Doe en 1064111 2010.12.7 Yes Yes john, Mac en 1064223 2010.10.1 Yes Yes john, Mac en 1064223 2010.11.17 Yes Yes macqueen, john en 106422234 2010.11.17 Yes Yes macqueen, john en 1064222 2010.8.19 Yes Yes Smith, John 12345abc 2010.12.7 Yes Yes Test 1, cheng A23451 2010.6.24 Yes Yes	A-Scan Manager	O User Select Select F • Net Shared Transfer Ex • USB Disk Select USE	older Reset ams to: Net Shared • 3 Drive: Net Shared USB Disk	Delete Sele Exam(s Transfer Exa Net Shar	ams to red	Refresh Exam List Convert All Printouts
Agarwal, Gaurway Titto Titto Date Saved Vivaveform Printotic Johe, Doe an 1064111 2010.10.6 Yes Yes John, Mac an 1064111 2010.10.1 Yes Yes John, Mac_Test acc7334 2010.11.1 Yes Yes macqueen, John an 106422234 2010.11.5 Yes Yes macqueen, John an 106422204 2010.12.7 Yes Yes Smith, John 12345abc 2010.12.7 Yes Yes Smith, John 12345abc 2010.6.24 Yes Yes	Current Folder :	C:\Accutome\Ascan\ascanplus\p	atients	D to C - 1	104 5	D
Aggarav 11009 2010.10.6 Tes Johe, Doe an 1064111 2010.12.7 Yes Yes john, Mac_Test an 0064223 2010.10.1 Yes Imacqueen, john macqueen, john an 00642234 2010.11.7 Yes Imacqueen, john macqueen, john an 00642234 2010.11.5 Yes Imacqueen, john Smith, John 12345abc 2010.12.7 Yes Yes Test1, cheng A23451 2010.6.24 Yes Yes		Patient Name	IU	Date Saved	vvaveform	Printout
Sint Dot Sin Dot 111 2010, 10, 27 Tes Tes john, Mac an 1064223 2010, 10, 1 Yes Imacqueen, John Yes Imacqueen, John acc7334 2010, 11, 7 Yes Imacqueen, John acc7334 2010, 11, 5 Yes Imacqueen, John acc7334 2010, 12, 7 Yes Yes Imacqueen, John Imacqueen, John acc7334 2010, 12, 7 Yes Yes Yes Imacqueen, John Imacqueen, John Imacqueen, John A23451 2010, 6, 24 Yes Yes Yes Imacqueen, John Imacqueen, John A23451 Xinn Xinn Yes Yes Imacqueen, John Imacqueen, John Xinn Yes Imacqueen, John Yes Imacqueen, John Xinn Xinn Yes Imacqueen, John Yes Imacqueen, John Yes Imacqueen, John Yes Imacqueen, John Yes <t< td=""><td>Aggarwai, Gaurav</td><td></td><td></td><td>2010.10.6</td><td>Tes</td><td>V</td></t<>	Aggarwai, Gaurav			2010.10.6	Tes	V
Marc Mac Mac Mac Mac Its Its <td>Jone, Doe</td> <td></td> <td>sh10G4222</td> <td>2010.12.7</td> <td>Van</td> <td>Tes</td>	Jone, Doe		sh10G4222	2010.12.7	Van	Tes
John Mac_itea John Mac_itea John Mac_itea John Macane macqueen, john an 10642224 2010.11.5 Yes macqueen, john an 10642224 2010.11.5 Yes Smith, John 12345abc 2010.12.7 Yes Yes Test 1, cheng A23451 2010.6.24 Yes Yes	john Mac Test		3007934	2010.10.1	Yee	
Interaction Interaction Ites macqueer, john m1064222 2010.8.19 Yes Smith, John 12345abc 2010.12.7 Yes Test 1, cheng A23451 2010.6.24 Yes	macqueen john		sn10G422234	2010 11 5	Yes	
Saith, John 12345abc 2010.12.7 Yes Yes Test 1, cheng	macqueen john		sn10G4222	2010 8 19	Yes	
Test 1, cheng A23451 2010.6.24 Yes	Smith John		12345abc	2010 12 7	Yes	Yes
	Test1 cheng		A23451	2010 6 24	Yes	100

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.

N Accutome A-Scan Ma	nager 1.03.02	10. 10.	-	-	
File Settings Help	1				
A-Scan Manager	Location © User Select Select i • Net Shared Transfer E • USB Disk Select US	Folder Reset xams to: Net Shared B Drive: USB Disk	Delete Sele Exam(s Transfer Exa Net Shar	ected R s) R ams to red	efresh Exam List Convert All Printouts
Current Folder :	C:\Accutome\Ascan\ascanplus\	patients			
1	Patient Name	ID	Date Saved	Waveform	Printout
Aggarwal, Gaurav		110059	2010.10.6	Yes	
Johe, Doe		sn10G4111	2010.12.7	Yes	Yes
john, Mac		sn 10G4223	2010.10.1	Yes	
john, Mac_Test		acc7934	2010.11.17	Yes	
macqueen, john		sn10G422234	2010.11.5	Yes	
macqueen, john		sn10G4222	2010.8.19	Yes	44-
Smith, John		12345abc	2010.12.7	Yes	Yes
Test 1, cheng		A23451	2010.6.24	Yes	
		Confirm Transfer	ou want to transfer the	e selected patient(s))?
Number of Exams	: 9		🔽 Only	show exams v	vith waveforms

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 patient	record			Pati	ent Records
john, Ma john, Ma > Smith, J Test1, cl	Patient c cTest ohn heng	ID or sn10G422 acc7934 12345abc A23451	Date of Birth	Date Saved 2010.10.01 2010.11.17 2010.12.07 2010.06.24	d Select
4 panen			_	Locatio	on
Patient			Г	A-Scan Memor	TV III
ID				Network Folde	:
Transfer	Select	Transfer to	Select for	Select	
[MENU]	Location	Internal	Transfer	All	Transfer

Select exams and transfer them from USB disk.

Select patient record		Patier	nt Records
Patient Johe, Doe john, Mac john, Mac_Test Smith, John Test1, cheng	ID or Date of Birth sn10G4111 sn10G4223 acc7934 12345abc A23451	Date Saved 2010.12.07 2010.10.01 2010.11.17 2010.12.07 2010.06.24	Select
5 patients	_	Location	
Patient		A-Scan Memory USB Disk	
ID		Network Folder	
Transfer Select Tra	ansfer to Select for	Select	veneter
	So Disk Transfer	AII I	ransier

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.

Preferences of A-Scan Manager	
Folder of Back-up Exams:	
C:\Accutome\Ascan\ascanplus\patie	ents Select Folder
Folder of Network Shared Exams :	
C:\Accutome\Ascan\netshare\ascan	plus\patients Select Folder
Folder of Exported Printouts :	
C:\Accutome\Ascan\ExportedPDFs	Select Folder
Alternate Folder of New Exams :	
C:\Accutome\Ascan\ascanplus\patie	ents Select Folder
Default Location of New Exam Network shared folder USB disk	 Only show exams with waveforms Export converted printouts automatically Delete source after transfer
Convert postscript printouts to Adobe PDF (.pdf) JPEG (.ipg.)	Print Converted Printouts to Default Printer Restore Default Cancel
	Save Cancer

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.



A	CLocation — ○ User Select	Select Folder	Reset	Delete Selected Exam(s)	Refresh Exam List
A-Scan Manager	 Net Shared USB Disk 	Transfer Exams to: Select USB Drive:	Net Shared Net Shared USB Disk	Transfer Exams to Net Shared	Convert All Printouts
Current Folder	: C:\Accutome\Asca	n\ascanplus\patients			

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. <u>Note: Please</u> make sure you create both patients and printouts folders under the same parent folder.

Preferences of A-Scan Manager	Salacian Fulder	
Folder of Back-up Exams:		
C:\Accutome\Ascan\ascanplus\patients		Select Folder
Ealder of Network Charod Evens		
Folder of Network Shared Exams .		
C:\Accutome\Ascan\netshare\ascanplus\patien	ts	Select Folder

File Settings H	elp				
A	Location — Select	Select Folder	Reset	Delete Selected Exam(s)	Refresh Exam List
A-Scan Manager	 ⊙ Net Shared ⊙ USB Disk 	Transfer Exams to: Select USB Drive:	Net Shared 👻	Transfer Exams to Selected Folder	Convert All Printouts

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.

Preferences of A-Scan Manager		23
Folder of Back-up Exams: C:\Accutome\Ascan\ascanplus\pati	ents Select Folde	r
Folder of Network Shared Exams : C:\Accutome\Ascan\netshare\ascar	nplus\patients Select Folde	r
Folder of Exported Printouts : C:\Accutome\Ascan\ExportedPDFs	Select Folde	r
Alternate Folder of New Exams : C:\Accutome\Ascan\ascanplus\pati	ents Select Folde	r
● USB disk	 Only show exams with waveforms Export converted printouts automatically Delete source after transfer 	
Convert postscript printouts to Adobe PDF (.pdf) JPEG (.jpg)	Print Converted Printouts to Default Printer Restore Default Save Cancel	

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 <u>Convert postscript printouts to</u>

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 <u>Delete source after transfer</u>

This checkbox toggles the option to "**Delete source after transfer**". If the box is unchecked (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 <u>Print Converted Printouts to Default Printer</u>

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: <u>Multiple instances of A-Scan</u> <u>Manager may run at the same time.</u> For example, users can lunch 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 <u>Main Window</u>

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.

Accutome A-Scan Manager 1.03.02	Sec. 1	Second		- • ×
File Settings Help				
A-Scan Manager	Folder Reset xams to: Net Shared - B Drive: -	Delete Sele Exam(s Transfer Exa Selected Fo	cted Re) ms to older	efresh Exam List Convert All Printouts
Current Folder : C:\Accutome\Ascan\netshare\a	scanplus\patients			
Patient Name	ID	Date Saved	Waveform	Printout
john, Mac	sn10G4223	2010.10.20	Yes	
macqueen, john	Holladay_Post_shammC	2011.1.17	Yes	Yes
Smith, John	12345abc	2010.12.7	Yes	Yes
Number of Exams: 3		Only	show exams w	vith waveforms

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.

Accutome A-Scar	n Manager 1.03.02		-
File Settings	Help		
	CLocation		
	O User Select	Select Folder	Reset
	Net Shared	Transfer Exams to:	Net Shared 👻
A-Scan Manager	USB Disk	Select USB Drive:	Net Shared USB Disk

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: <u>If a USB disk is plugged in to the PC, the program will automatically</u> 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.

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	
ohn, Mac	sn 10G4223		10/20/2010	Yes	
JONES, JENG	CHENG-TEST1245	11/10/1957	3/14/2011	Yes	
nacqueen, john	Holladay_Post_shammC		1/17/2011	Yes	
nacqueen, john	sn 10G4222		3/1/2011	Yes	
D'Connor, Daniel	34577	5/24/1934	2/28/2011	Yes	
Shaw, Karen	1164207		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-wavefron-no-printouts			8/23/2011		
test, NO_waveform	asd12345		4/7/2011		

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

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

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 **<u>current folder</u>**.

3.1.5.3 Delete Exams without waveforms

Delete all exams, which have no waveforms, in the **<u>current folder</u>**.

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.

Patient Name	ID	DOB	Date Saved	Waveform	Printout	
Cheng, Chang	11b4207-SRKT		7/19/2011	Yes		1
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	sn 10G4223		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	1164207		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		

3.1.13 Only Show Exams with Waveforms or Printouts

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

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	sn 10G4223		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	1164207		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-wavefron-no-printouts			8/23/2011		
test, NO_waveform	asd12345		4/7/2011		

3.1.14 Status Bar

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

3.2 <u>Review Exam Window</u>

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



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: <u>If there are no printouts associated with the exam, the buttons and drop-down</u> 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 recalculation has to be done in the A-Scan Plus unit.

Review Exam:	Chandler_Bria	n_11b4207-H	lolladay_20110	707_113109	upt			L	
Patient : Ch	andler, Bria	n			Rema	rk :			*
ID: 11	b4207-Hollad	lay]				
Measurement	Calculation	1 							
Group		Burns							
IOL	Res	tor	Toric/0	Crystal	mo	nofocal		UU	
Hoffer Q	5.4	90	5.5	50		5.370	K Index	1.3375	
Holladay	1.7	32	1.7	91		1.616	Eve Type	Phak	ic
SRK/T	5.5	30	5.5	90	1	5.400	Lye type		
Haigis	1.839 0.4	00 0.100	1.903 0.4	00 0.100	1.710	0.400 0.100	Formula	HOLLAL	JAY
A-Const	118	.90	119	.00		18.69	Rx Surg	No	
	Power	Refr	Power	Refr	Power	Refr	AXL	23.06	mm
	21.50	0.52	21.50	0.60	21.00	0.70			
	22.00	0.18	22.00	0.26	21.50	0.36	1/1	43 70 D	
	22.50	-0.16	22.50	-0.07	22.00	0.01	NI	43.79 D	
	23.00	-0.51	23.00	-0.42	22.50	-0.33	K2	43.81 D	
	20.00	-0.00	20.00	-0.70	20.00	-0.00	Target	0.00 D	
Target	22.	26	22.	39	2	2.02			
Emme	22.26		22.39		22.02			AXL	
								1 23.0	5
								2 23.08	3
								3 23.00	2
								4 23.03 5 23.03	7
								Aug 22.00	
OD/	OS							Dev 0.01	2
-					_				
Printouts					-	New Calo	Report		
	Show	All	E	xport All		New Measu	ire Report	New Rep	orts Both

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 <u>New Calc Report</u>

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

3.2.10 <u>New Measure Report</u>

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:

Manager Cre	ate Exam
Last Name	
First Name	
Date of Birth	
ID	
Remark	
Formula	HOLLADAY
Preferenc	es 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 <u>ID</u>

Enter patient's ID with no spaces.

3.3.5 <u>Remark</u>

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 <u>Clear</u>

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.