

# ATTENTION

# PLEASE READ <u>ALL</u> ENCLOSED INFORMATION PRIOR TO USING ACCUTOME'S A-SCAN PLUS



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# ALL SOFTWARE NECESSARY TO RUN ACCUTOME'S A-SCAN PLUS IS PRE-INSTALLED ON ACCOMPANYING LAPTOP.

ACCOMPANYING A-SCAN SOFTWARE DISK IS TO BE USED IF INSTALLING SOFTWARE ON NON-ACCUTOME SUPPLIED COMPUTER.

# Accutome A-scan Plus<sup>®</sup> Connect Quick Reference Guide

## How to Measure a New Patient

- 1. Launch Accutome software by double clicking the Accutome icon.
- 2. Under the Exams tab, begin a new patient by selecting New Exam.
- 3. Type the patient data into the appropriate fields and click Done.
- 4. On the measurement screen, **choose your measurement options** (Eye Type, Contact/Immersion, Auto/Manual, OD/OS, Normal/Extended/Max); options can be adjusted by clicking on the associated icon.
  - Eye Type Phakic Scan Method Contact © Immersion Display Range Normal © Extended © Max
- 5. Prepare by following the **immersion shell / probe setup** guidelines.
- 6. When in auto mode, begin with **foot pedal pressed.**
- 7. **Insert shell** into eye and **fill shell with BSS** past probe tip until waveforms are displayed onscreen.
- 8. Release foot pedal when spikes are acceptable and machine will auto-capture.
- 9. Ensure all wave forms are within .1mm (immersion) and .2mm (contact) and that the spikes are

of sufficient amplitude and exhibit proper pattern. You can check scan consistency by tapping the foot pedal or pressing the esc key. If you would like replace a measurement you can hold the foot pedal or press the Insert key on the PC.

Scan	AXL	ACD	Lens	VCD
1	23.93	3.86	3.74	16.33
2	23.90	3.84	3.74	16.32
3	23.90	3.84	3.74	16.32
4	23.90	3.84	3.74	16.32
5	23.89	3.83	3.76	16.30
Avg	23.90	3.84	3.74	16.32
Dev	0.02	0.01	0.01	0.01

- 10. When all five measurements are captured, switch to the fellow eye and repeat sections 4-9.
- 11. **Compare Axial lengths** of each eye (difference should be no more than 0.3mm unless clinical history suggests otherwise.)
- 12. Repeat for fellow eye.
- 13. Save the patient info by clicking the save icon at the bottom of the screen.





# How to Calculate IOL Power

- 1. Select the IOL calculation tab IOL Calculation
- 2. Select eye (OD/OS) **OD/OS**

3. Input K1 and K2 readings



- 4. Highlight **Target** and if necessary change from default (0.00)
- 5. Choose the correct **IOL group** from the drop down IOL group menu.

Group :	lens12	-	Manage IOL Groups
IOL	Dr. 1		
	jim		
A-Co	lens12	70	)

6. Choose correct **formula**, by clicking on choices in the bottom left hand corner.



- 7. Switch to fellow eye and repeat sections 3-7
- 8. Save the patient data by clicking on the save icon.
- 9. Push the print icon once to print calculations for both eyes on one page.



### How to Save

1. Patient data can be saved at any time on either the measurement or IOL calculations pages by clicking on the save icon.



#### Part I Turn off user account controls

- Control Panel
  - If user is in tile screen, type control with cursor anywhere on screen and select Control Panel
    - Select User Accounts and Family Safety



Select User Accounts



Select Change User Account Control Settings



Drag Slide-bar to Never Notify

1. Contraction (1. Contraction			User Account Control Settings	- • • • •
	Choose User Acco	when to	be notified about changes to your computer helps prevent potentially harmful programs from making changes to your c are Account Control settings	omputer.
	Alway	s notify		
	<del></del>	-	Never notify me when:	
	-	-	Apps try to install software or make changes to my computer Imake changes to Windows settings	
	<del>13</del> 8	=		
	-0		Not recommended.	
	Never	notify		
			<b>Вок</b>	Cancel

#### Part II Change PC Settings

- Settings
  - If user is in tile screen, move cursor over minus sign on the bottom right hand corner of the screen. A side menu will appear and the bottom option will be a cog which is the icon for the Settings menu
  - Select Change PC Settings



- o Select the General tab on the left hand side of the menu
  - Scroll to the bottom of the General settings tab to a heading labeled Advanced Setup
    - Under Advanced Setup heading click on the box labeled **Restart Now**



#### **Restart Screen**

- Select the box labeled **Trouble Shoot** 
  - In Trouble Shoot Menu select Advanced Options





#### • Select Startup Settings

Under Startup Settings select the **Restart** box in the bottom right corner



#### Change PC Settings (Windows 8.1)

- Settings
  - If user is in tile screen, move cursor over minus sign on the bottom right hand corner of the screen. A side menu will appear and the bottom option will be a cog which is the icon for the **Settings** menu
  - Select Change PC Settings
  - Select Update and Recovery on the left hand side of the menu
    - On the Update and Recovery page find Advance Startup

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PC settings P		€ Update and recovery P
PC and devices		
Accounts		Windows Update
SkyDrive		File History
Search and apps		Parauany
Privacy		Recovery
Network		
Time and language		
Ease of Access		
Update and recovery	100	
	Adva	nced startup
	Start up fr change W your PC. Restart	rom a device or disc (such as a USB drive or DVD), change your PC's firmware settings, Vindows startup settings, or restore Windows from a system image. This will restart <b>t now</b>

• Select **Restart Now** 

# **Installing A-Scan Plus Connect To Windows 8**

 In the next screen you will either select Disable Driver Signature Enforcement or press either 7 or F7. This will then restart the computer with the DSE disabled.



## <u>PART III</u> Install the A-Scan Plus Connects Application:

#### -Installing with A-Scan Plus Connect Disk

#### **Run as Administrator**

- Once computer has restarted after the DSE has been disabled, open My Computer
  - Right click on the Accutome B-Scan software disk and select **Open**
  - Right click on setup and select Run as Administrator



#### -Installing from the Web

- Uninstall current version of **A-Scan Plus Connect** software
  - To uninstall open the **Control Panel**
  - Beneath the green **Programs** tab select **Uninstall a Program** 
    - Right click on Accutome A-Scan Plus Connect
    - Select Uninstall
- Go to support.accutome.com and select A-Scan Connect
  - Select Installation/Upgrade for Windows Vista, 7 and 8
- When prompted to Run or Save, select Save
  - Once the software has saved open My Computer
    - Select the Download Folder
    - Right click on Installation/Upgrade Win8
    - Select Run as Administrator

Follow from (2) in Phase III of installation instructions



- Follow each step and install the A-Scan Plus Connect application.
- The Microsoft Visual C++ 2008 Redistributable Setup window will appear on desktop toward the end of the installation steps. If it does not appear automatically, Double click on the icon Install vcredist\_x86.exe on the desktop to install manually.

 Click Next to start installation of Microsoft Visual C++ 2008 Redistributable.

Microsoft Visual C++ 2008 Redistributable Setup	
Welcome to Microsoft Visual C++ 2008 Redistributable Setup	
This wizard will guide you through the installation process.	
	Next > Cancel

 The WinZip Self-Extractor – gs900w32.exe window will appear on desktop toward the end of the installation steps. If it does not appear automatically, Double click on the icon Launch gs900win32.exe on the desktop to install Ghostscript 9.00 manually.



- Click Setup then click Install to start installation of Ghostscript.
- Click Finish to close the Install Accutome A-Scan Plus Connect window and complete the installation steps for required files and device drivers for running "Accutome A-Scan Plus Connect" applications.

#### <u>PART IV</u> Install the Device Driver of the Control Unit

#### **Setup Control Unit**

- Plug-in the B-type USB connector to the back of the Control Unit.
- Plug-in the A-type USB connector to any USB port of the PC.



• Windows will load the device driver for the **Control Unit.** If the driver is found, a window will show on the desktop.



 Click Install this driver software anyway to install the driver. When finished, the following message will show up. The LED light on the Control Unit will turn from Red to Amber. If you plug-in the A-scan probe the LED light will turn green.



- If the "Update Driver Software –Accutome A-Scan" window does not show up automatically, open Device Manager from the Control Panel and do the following:
  - Right click the **A-Scan** and select Update Driver Software.
  - Follow the previous steps to install the driver.

4		Device Manager
File Action View	Help	
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🔺 🚔 test-PC		
🕟 🛯 Audio input	s and outputs	
D Computer		
👂 👝 Disk drives		
👂 騙 Display adap	oters	
DVD/CD-RO	M drives	
Floppy drive	controllers	
🔈 🕼 Human Inte	rface Devices	
IDE ATA/AT.	API controllers	
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Monitors		
Network ada	apters	
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A-Sci	Update Driver Software	$\leq$
Print que	Disable	
Processo	Uninstall	
Sound, v		
> 🗲 Storage o	Scan for hardware changes	
👂 📜 System d	Properties	
b Universal Se	rial Bus controllers	

#### **Find A-scan Connect Driver**

- Control Panel
  - \*If User is in tile screen, type Control with cursor anywhere on screen and select Control Panel



 \*If User is in Desktop Screen, Move cursor over the bottom right hand corner of the screen. A side menu will appear and the bottom option will be a cog, which is the icon for the Settings menu.

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• Select the **Settings (Cog)** 



Select Control Panel



In the Control Panel Window Select Hardware and Sound



#### Select Device Manager



Select A-scan under Other devices



Right Click on A-scan and Select Update Driver Software



Select Browse My computer for driver software



#### Click Browse



Select the Accutome Folder Located under the OS (C:) Drive



- Click OK and then Click Next
- Click Install Driver



The light on the Accutome A-scan Connect Control Unit should turn Green and the A-scan Software is ready to Launch

#### PLEASE READ THROUGH INSTRUCTIONS BEFORE UPGRADING

#### **IMPORTANT:**

- <u>**DO NOT**</u> plug in the A-Scan Plus Connect Control Unit into any USB port until all installations have finished.
- Use this guide for **both 32-bit and 64-bit operation system (OS)**.
- The computer must be running <u>Microsoft Windows 7 or Vista</u> operating system.
- Use the latest A-Scan installation CD or download the latest A-Scan Plus Connects installation package form <a href="http://support.accutome.com/">http://support.accutome.com/</a>.

Turn the computer to "On" and login.

#### PART I

Follow the steps below to check for a "C:" drive, if you <u>do not</u> have a "C:" drive, you <u>should stop</u> installation immediately because you will not be able to run the program on this computer.

- Click (Start) on the bottom left corner of the desktop, click "Computer" on the right of the pop-up menu.
- 2) You should see (C :) under "Hard Disk Drives" list. Close the window after you done.

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Start Men	u Icon 🦯 👘	
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For Additional Help Contact Accutome at 1-800-979-2020

#### <u>PART II</u>

Follow the steps below to <u>turn off</u> the "User Account Control (UAC)" of Windows 7 and Vista. These steps can be used in both Windows 7 and Vista. Note: the snapshots were captured form Vista.

**NOTE**: UAC is a security feature of Windows 7 and Vista. However, it interferes with the installation of A-Scan Plus Connects program and device driver of the USB probe. You can turn it back on using the same procedure after you finished the entire installation process.



For Additional Help Contact Accutome at 1-800-979-2020

#### Windows 7

Click "Change User Account Setting"



Move the slider down to "**Never notify**" to turn **UAC** off. Then click "**OK**".



NOTE: For Windows 7, You **MUST** "<u>Restart</u>" the computer from (Start) to make change effective.



#### For Additional Help Contact Accutome at 1-800-979-2020

#### <u>Windows Vista</u>

Click "Turn User Account Control on or off"



Click "**Continue**" on "**Windows needs your permission to continue**".

Click and uncheck the "Use User Account Control (UAC) to help protect your computer" and click "OK".



Click "**Restart Now**" on the "**You must restart your computer to apply these changes**" window. Wait for your computer to restart and login to the same account.

#### **<u>PART III</u>** Removing old version of A-Scan Plus Connect (Skip if new installation):

- 1) Open "**Control Panel**" window by clicking (Start) located on the bottom left corner of the desktop. Click "**Control panel**" located on the right side of the pop-up menu
- 2) Click on "Programs" and click on "Programs and Features". Click on "Accutome A-Scan Plus (Connect)" on the "Uninstall or change a program" list. Click "Uninstall". Click "Yes" to un-install the program from the system. "Accutome A-Scan Plus (Connect)" will disappear from the list. Now you are ready for upgrading.

#### <u>PART IV</u> Install the latest version of A-Scan Plus Connect:

- You can use the latest A-Scan installation CD or download latest installation package from our support web site <u>http://support.accutome.com/</u>. To download the installation package, go to the web site from your web browser and select "A-Scan Connect". Download and save the latest A-Scan Plus Connect upgrades to your computer. Double click the downloaded .exe file and "Preparing to Install ..." will appear automatically. If you use the installation CD, insert the CD into CDROM drive and "Preparing to Install ..." will appear automatically. If the install does not automatically begin, open "My Computer". Double click on the "A-Scan Plus Connect" icon. Double click on "Setup". It will take several seconds to unpack the installation package. Advance through the windows by clicking "Next".
- 2) Follow each step and install the **A-Scan Plus Connect** application.
- 3) If "Window Installer" appears with "Another version of product is already installed. Installation of this version cannot continue. ..." this means the old version of A-Scan Plus Connect was <u>not un-installed correctly</u>. Click "OK" and return to <u>PART III</u>.
- 4) The "Microsoft Visual C++ 2008 Redistributable Setup" window will appear on the desktop at this time. If it does not appear automatically, double click on the icon "Install vcredist\_x86.exe" on the desktop to install manually.
- 5) Click "Next" to start installation of "Microsoft Visual C++ 2008 Redistributable Setup".

P MICrosoft Visual C++ 2008 Redistributable Setup		(BIS)	
Welcome to Microsoft Visual C++ 2008 Redistributable Setup			
This wizard will guide you through the installation process.			
ſ	Next >	Cancel	

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6) When the "WinZip Self-Extractor – gs900w32.exe" window will appear on the desktop at this time. If it does not appear automatically, double click the icon "Launch gs900win32.exe" on the desktop to install "Ghostscript 9.00" manually.

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

- 7) Click "Setup". Then click "Install" to start installation of Ghostscript.
- 8) Click "Finish" to close the "Install Accutome A-Scan Plus Connect" window and complete the installation steps for the required files and libraries for running "Accutome A-Scan Plus Connect" applications.

#### PLEASE READ THROUGH INSTRUCTIONS BEFORE INSTALLING SOFTWARE

#### **IMPORTANT:**

- <u>**DO NOT**</u> plug the Accutome A-Scan Plus Connect Control Unit into the USB port until all applications and drivers have been installed.
- The computer must have a local hard disk drive which is labeled "C:".
- The screen resolution (DPI setting) must be set to "Normal Size" (96DPI).
- The computer must have .NET Framework 2.0 installed.
- The account used to install and run the program must belong to <u>Administrators Group</u>.
- The computer must have Adobe Acrobat Reader version 5.0 or higher to display the "A-Scan Plus Connect User Guide".
- Follow the steps below to install "Accutome's "A-Scan Plus Connect" to a personal computer.

#### **INSTALLATION - PHASE ONE:**

Turn the computer to "On".

#### PART I

Follow the steps below to check for a "C:" drive, if you do not have a "C:" drive you will not be able to install the program on your computer.

Go to "Start", click on "My Computer". You should see (C:) under "Hard Disk Drives".

#### <u>PART II</u>

Follow the steps below to set the screen resolution (DIP setting):

- Right click your mouse on an empty space on the desktop, select "Properties". "Display Properties" window will appear on the desktop. Click "Setting" tab in the window. Click "Advanced" button and select "General" tab.
- Set "DPI Setting" to "Normal Size (96 DPI)". Click on "OK". Return to "Display Properties" window. Set "Screen Resolution" to either "1280 by 1024", "1366 by 768" or "1680 by 1050". If your screen supports a higher resolution we recommend setting it to "1680 by 1050". Click "OK" to close "Display Properties" window and proceed to <u>Installation -</u> <u>Phase Two</u>.

#### **INSTALLATION - PHASE TWO:**

Follow the steps below to install the "Accutome A-Scan Plus Connect" application:

 Insert the installation disk into the CDROM drive. "Preparing to Install ..." will automatically appear. If the install does not start automatically, open "My Computer". Double click on the "A-Scan Install" icon. Double click on "Setup". It will take several seconds to unpack the installation package. Advance through the windows by clicking "Next".

#### For Additional Help Contact Accutome at 1-800-979-2020

- 2) When the window of "Welcome to the InstallShield Wizard for Accutome A-Scan Plus Connect" appears, click "Next". Click "I accept the terms in the license agreement" when the "License Agreement" window appears. Click "Next". Click "Install". After the A-Scan Plus Connect applications files are copied onto your computer a few icons will appear on the desktop, a window "WinZip Self-Extractor gs900w32.exe" will automatically appear on the desktop. If it does not appear automatically, Double click on the icon "gs900w32.exe" on the desktop to install "Ghostscript 9.00" manually.
- Click "Next" button on the "Microsoft Visual C++ 2008 Redistributable Setup" window to install the Microsoft Visual C++ 2008 Redistributable applications. Click "Finish" to close the "Microsoft Visual C++ 2008 Redistributable Setup" window.
- 4) Click "Setup" button then "Install" button on the "Ghostscript Install" window to install the Ghostscript 9.00 applications. Click "Finish" to close the "Install Accutome A-Scan Plus Connect" window and complete the installation steps for required files and libraries for running "Accutome A-Scan Plus Connect" applications.
- 5) If a "Microsoft .NET Framework 2.0 Setup" window automatically appears on the desktop it means that the installation program could NOT find ".NET Framework 2.0" package on your system and is trying to install it. Click "Next". Click "I accept the terms of the License Agreement" and then click "Install" to start installing the package. Click "Finish" to complete installation.
- 6) **Insert the A-Scan Plus Control Unit into a USB port**. You can insert the probe in the front of a desktop computer or on the side of a notebook computer.
  - a. The "Found New Hardware Wizard" will appear on the desktop. Select "No, not this time" and click "Next" to advance screens.
  - b. In the next screen, make sure "Install the Software Automatically (Recommended)" is selected. Click "Next". The system will find the driver for the probe and the window "Hardware Installation" will appear. Click "Continue Anyway". Click "Finish".
  - c. After the driver has been installed and all windows are closed, the window "**Found New Hardware Wizard**" will reappear. You will need to repeat steps a and b one additional time to complete driver installation.
- 7) We recommend that you install the driver on at least two USB ports (either on the front of a desktop PC or on the side of a notebook PC) in the event one port is already being used by another device. Be sure to unplug the probe from the current USB port and insert it into the other USB port. Repeat the steps under step 6) a, b, and c.
- 8) Unplug the probe and eject the installation CD from the CD/DVD drive. Reboot your machine by Clicking on "Start". Click "Turn Off Computer". Select "Restart" then click on "OK". After the machine restarts login (if necessary) to your account. Wait until the desktop appears, then plug the probe into the USB port you activated earlier. Wait 10 seconds after connecting the A-Scan Control Unit.

You can either read the user guide by double clicking the icon "Launch A-Scan Plus Connect User Guide" on the desktop or double click the "Launch Accutome A-Scan Plus Connect.exe" icon on the desktop to start the program.