



TotalECG™ 12-Lead ECG

User/Admin Manual





TotalECG 12-Lead User Manual

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About GlobalMed

Scottsdale, Arizona-based GlobalMed, designs, manufactures, and markets telemedicine solutions and medical image automation systems that provide superior image quality, unmatched versatility, and unsurpassed simplicity for the healthcare industry. GlobalMed's camera, image management, store-and-forward, video conferencing and video-streaming technologies enable multiple specialists and other caregivers to be more effective in providing patient care, and more productive and efficient in managing patient information. Products include the TotalExam® line of Cameras, the most versatile and easy-to-use exam cameras on the market, eNcounter® store-and-forward imaging and image management software with DICOM output, which provides automated workflow capabilities for seamless integration into a provider's network, and fully integrated for applications.

Contact Info

GlobalMed Help Desk: www.globalmed.com/helpdesk

GlobalMed Help Desk: 1.800.886.3692



CardioVu Software Installation

In this section are screenshots from the installation process on Windows 7 or Windows 8.

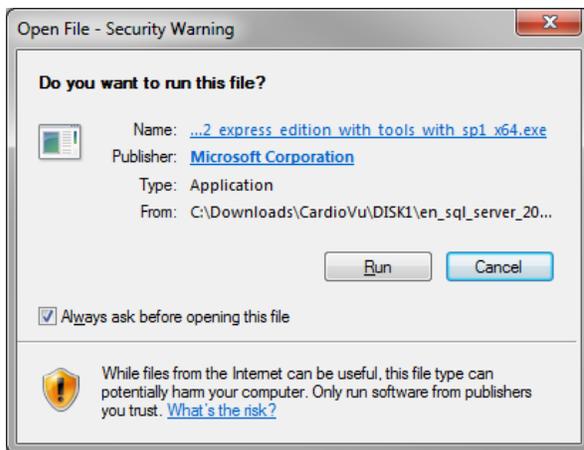
The CardioVu installation is a two-step process. The Database installation, located under the DISK1 folder, is required prior to proceeding with the software installation. located under the DISK1 folder. After the SQL Server 2012 Express database is installed, the CardioVu software may be installed, which is under the DISK2 folder.

When running the SQL Server installer, you may be prompted with security warning screens based on your Windows Security settings, and/or Virus protection software.

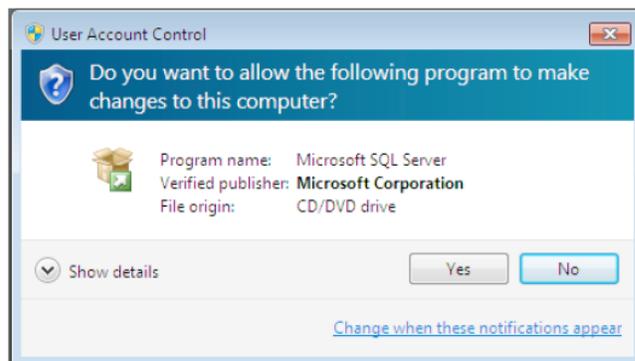
When initially starting the installation program, and a second time when the program starts Microsoft's database installer program, an "Open File-Security Warning" dialog box may appear. Click on the "Run" button when this screen appears.

Run the SQL Server installer listed under \CardioVu\DISK\TelemedSQLInstall.exe

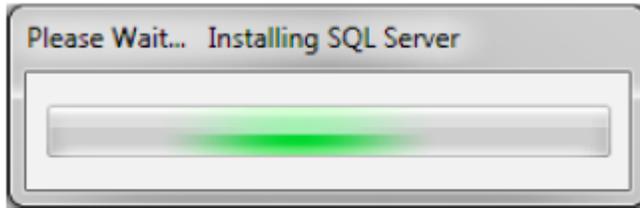
You may be prompted with "Open File-Security Warning" Dialog box. Click on the "Run" button.



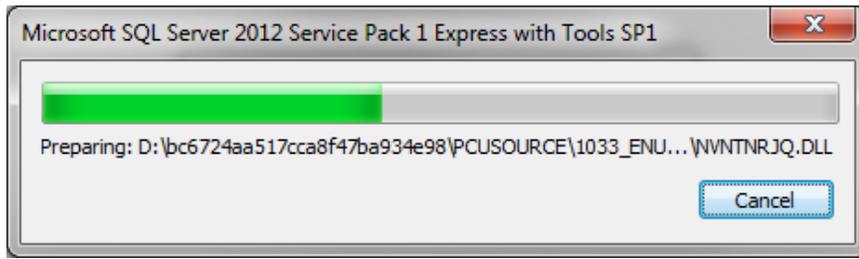
If you receive the "User Account Control" screen below, click on "Yes" to continue installation.



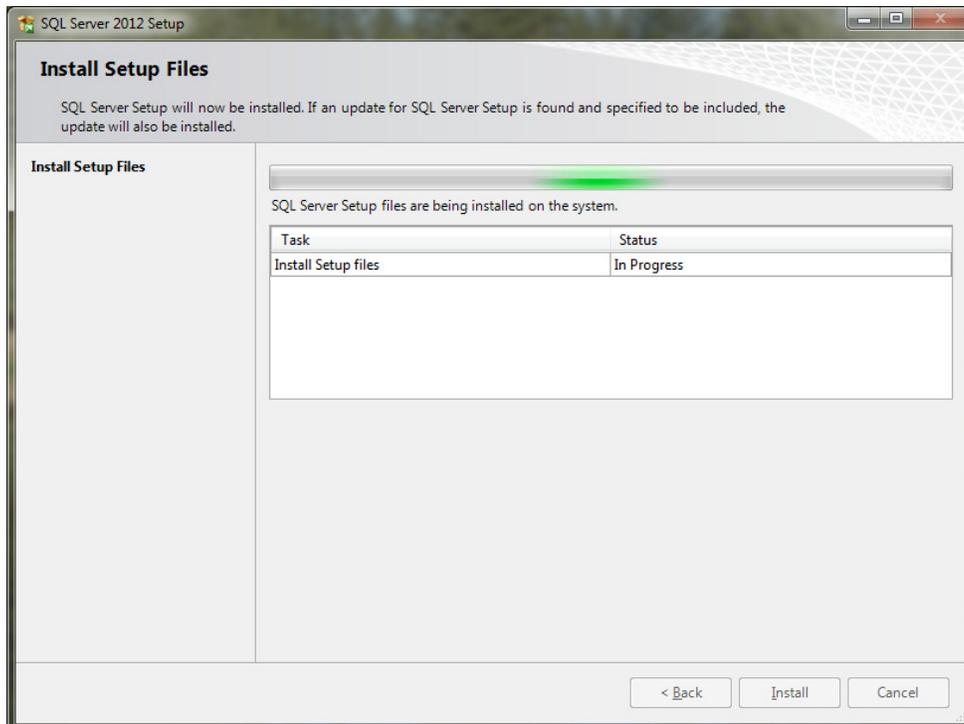
The following dialog boxes will appear during installation. These dialog boxes will not require any user intervention, but will display the progress of the database installation. Please wait while the files are extracted.



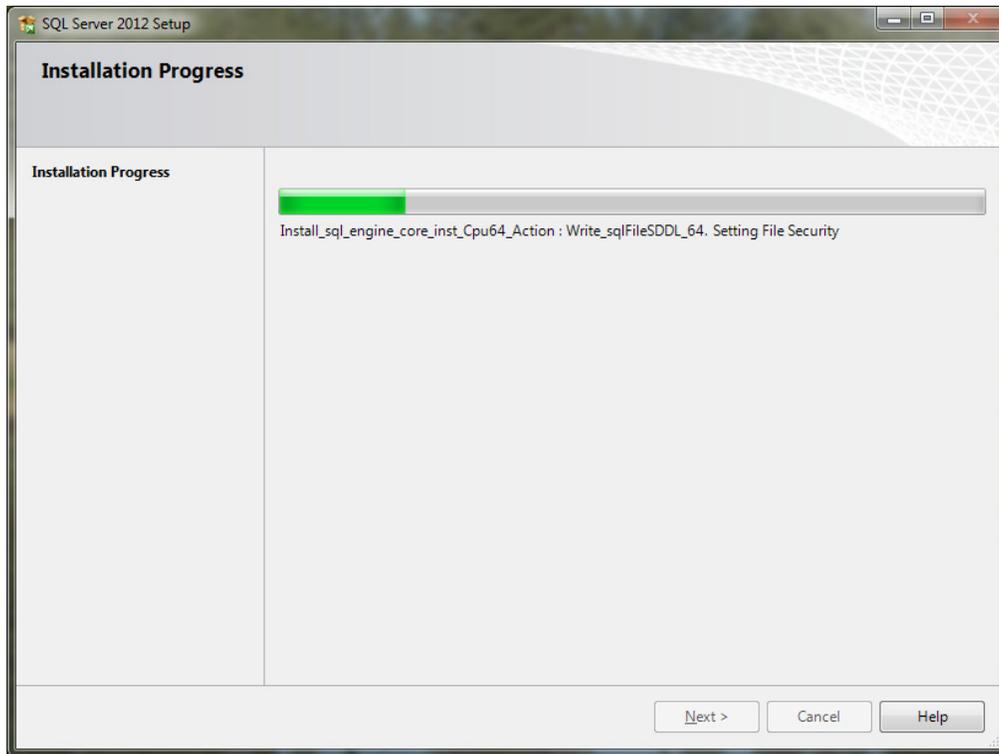
This dialog will appear if hService Pack 1 needs to be installed.



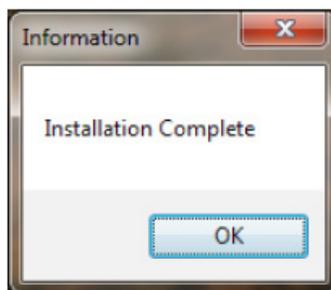
The Install Setup Files screen will show several steps of the database installation.



The Installation Progress screen will appear next.

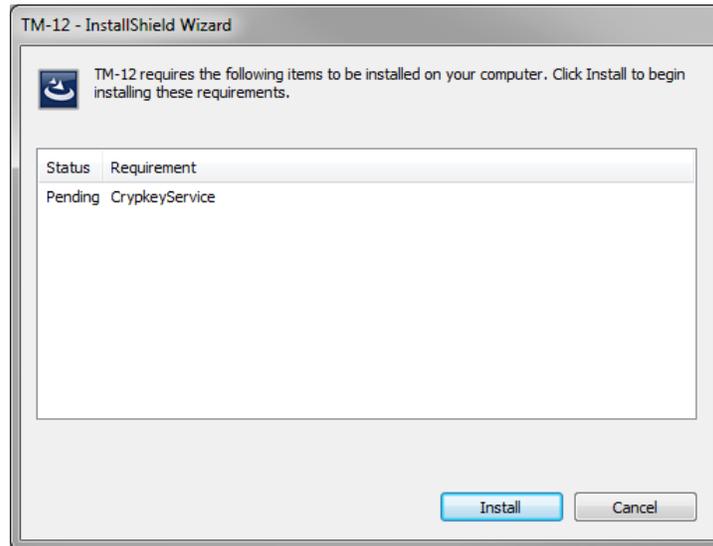


When the installation is successful, the dialog box below will display the message, "Installation Complete".

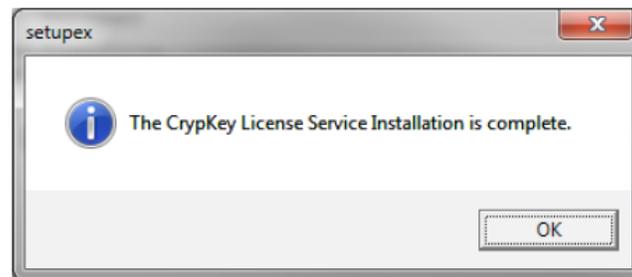


After the database installation is complete, start the CardioVu software installation program.

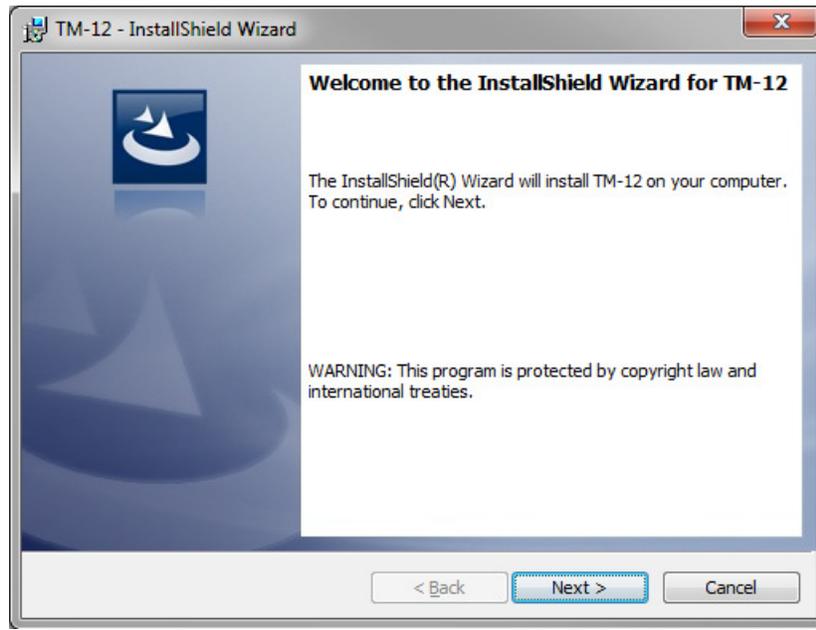
Run the SQL Server installer listed under \CardioVu\DiSK2\setup.exe



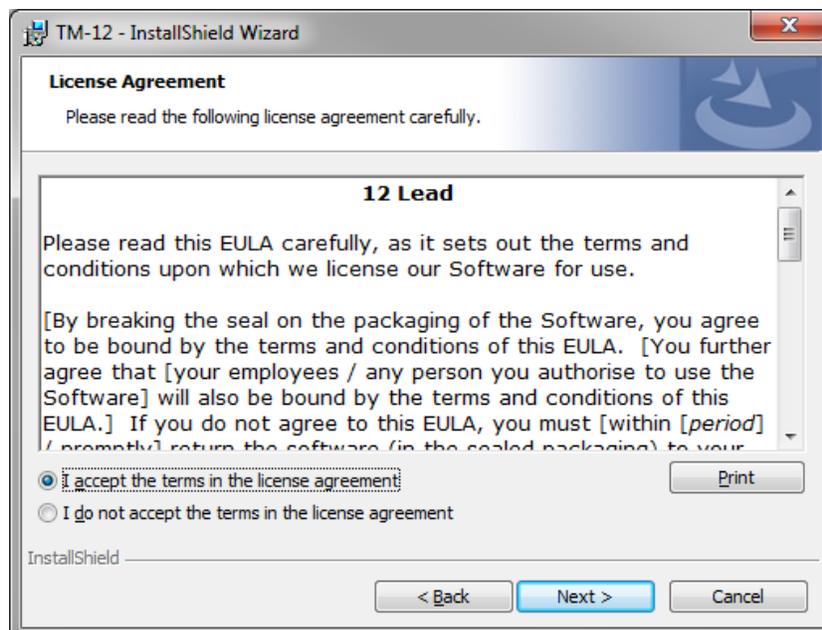
Click "OK" to finish the CrypKey installation.



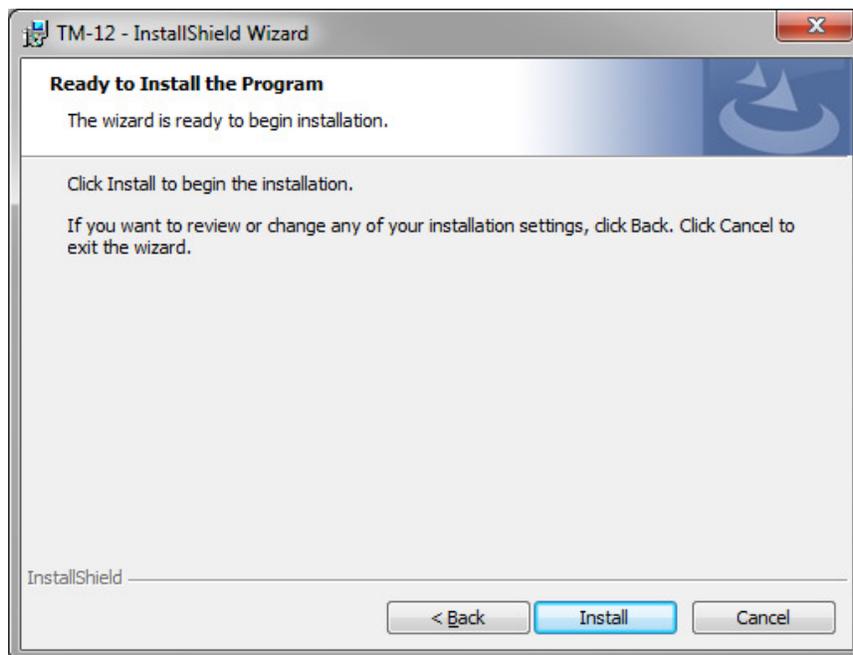
Click the “Next” button to start the InstallShield Wizard.



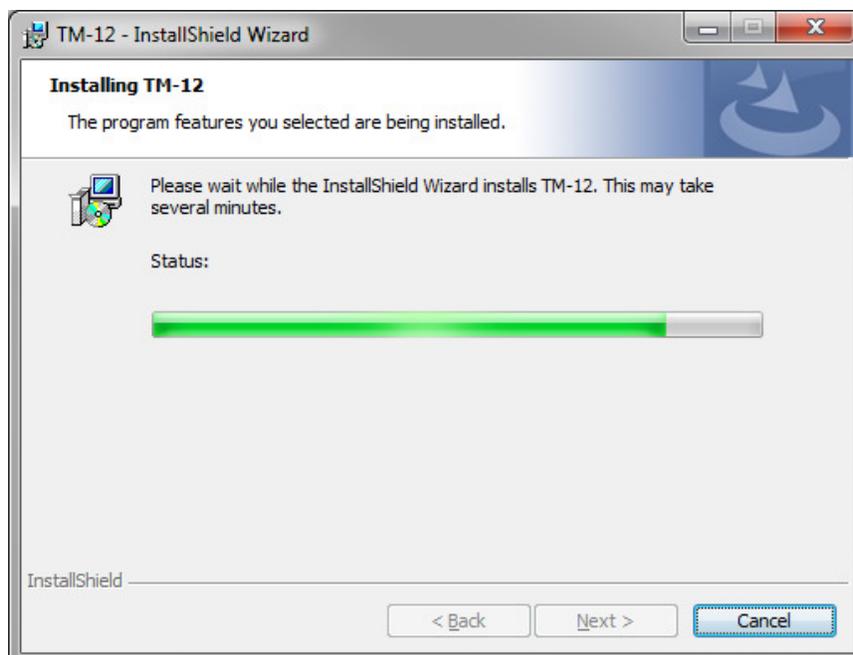
Accept the terms in the license agreement and select “Next” to continue.



Click on the "Install" button to start the CardioVu Software Installation.

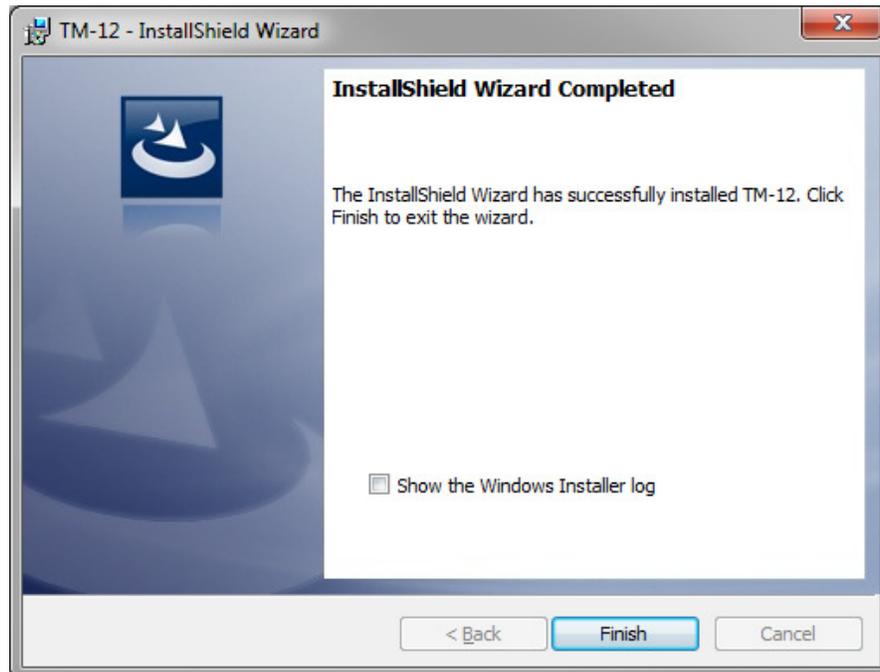


There may be a delay before seeing the green bar under the Status bar.



Click on the “Finish” button.

If you have any problems with the installation process, click on the “Show the Windows Installer log” checkbox to view and save the installation log.

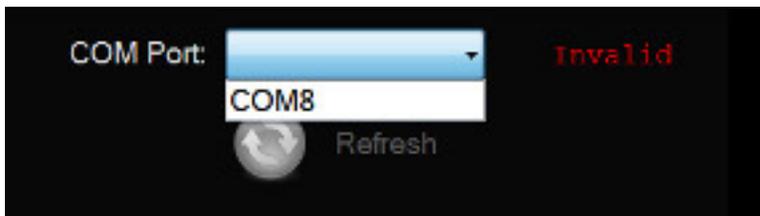


Step-by-Step Instructions to Perform a Study

Prepare System for First Time Use

1. Insert TM-BT (Bluetooth USB) Key into PC. Windows should automatically detect the new hardware and install the drivers.
2. To know if TM-BT Key has been installed correctly, open CardioVu Software and verify a COM Port is available.

Correctly Installed (COM8 or any other COM number)



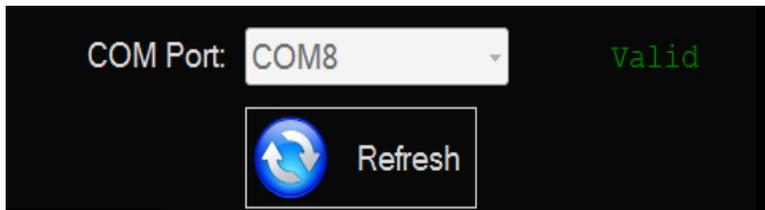
Not Installed (No COM Port). [Go to section on manual install](#)



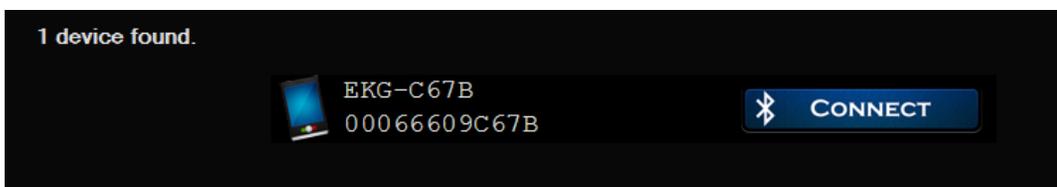
Start ECG Stream from 12-Lead Device to Computer

1. Insert two AA batteries into the 12-Lead device. Wait for unit to load “Review and Start” menu. Select “Review Leads” and press the (Enter) key to observe ECG for each channel. Use the <arrow> keys to view each lead. Press (Enter) to leave Review ECG screen.
2. Press the down arrow to select “Start Transmitting” and press (Enter). The screen will read, “Disconnected, Searching for Host. You will see the searching symbol on the LCD ((((*)))) as it tries to locate the host.
3. Note the “Name” on the 12-Lead device: eg EKG-C67B or something similar.
4. Now go to the host PC.

- At CardioVu Software: If a Com Port is available, click on the Down arrow and select the port. Once selected, the text on the right should change from “Invalid” to “Valid”.



- The software will now automatically search for the 12-Lead device.
- After the 12-Lead device is found, click Connect.



- After a few initialization steps, the software will begin streaming the ECG screen.

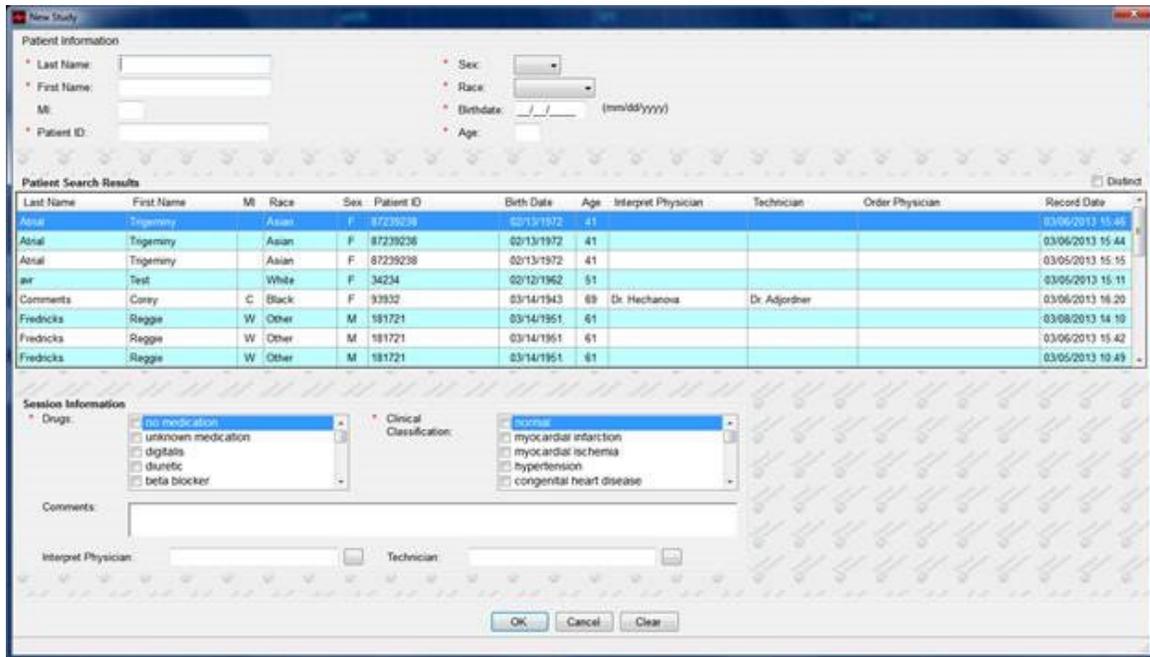


How to Perform a Study

- Click “Start Analysis” button to begin a new study.



- In the New Study form enter the patient demographic information.



Patient Information

Last Name:
 First Name:
 MI:
 Patient ID:
 Sex:
 Race:
 Birthdate: (mm/dd/yyyy)
 Age:

Patient Search Results

Last Name	First Name	MI	Race	Sex	Patient ID	Birth Date	Age	Interpret Physician	Technician	Order Physician	Record Date
Abdul	Tigemy		Asian	F	87239238	02/13/1972	41				03/06/2013 15:46
Abdul	Tigemy		Asian	F	87239238	02/13/1972	41				03/06/2013 15:44
Abdul	Tigemy		Asian	F	87239238	02/13/1972	41				03/05/2013 15:15
air	Test		White	F	34234	02/12/1962	51				03/05/2013 15:11
Comments	Conry	C	Black	F	93932	03/14/1943	69	Dr. Hechanova	Dr. Adjorner		03/06/2013 16:20
Fredicks	Regge	W	Other	M	181721	03/14/1951	61				03/08/2013 14:10
Fredicks	Regge	W	Other	M	181721	03/14/1951	61				03/06/2013 15:42
Fredicks	Regge	W	Other	M	181721	03/14/1951	61				03/05/2013 10:49

Session Information

Drugs: (no medication)
 unknown medication
 digitals
 diuretic
 beta blocker

Clinical Classification: (ischemic)
 myocardial infarction
 myocardial ischemia
 hypertension
 congenital heart disease

Comments:

Interpret Physician: Technician:

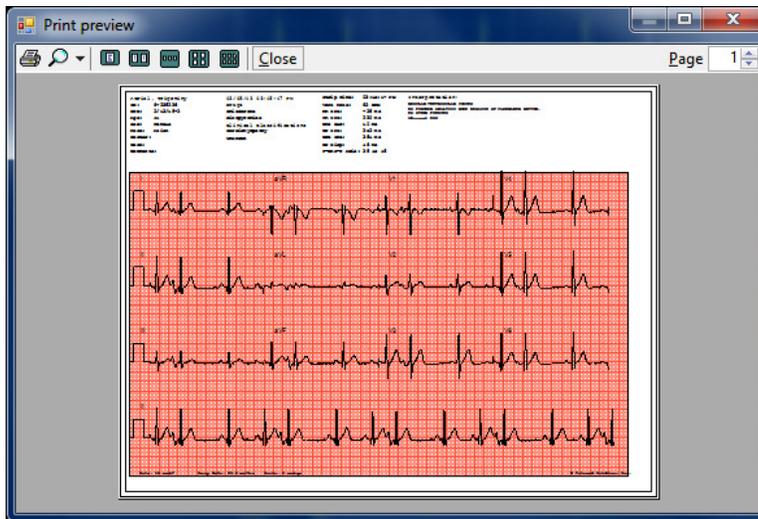
OK Cancel Clear

The following fields are required:

- a. Patient First Name
 - b. Patient Last Name
 - c. Patient ID
 - d. Sex
 - e. Race
 - f. Date of Birth
 - g. Patient's current medication (Drugs)
 - h. Patient's current symptoms/diseases (Clinical Classification)
3. Click "OK" to start Glasgow analysis. Analysis should take approximately 15 seconds to complete. When the analysis is complete, a dialog box will appear.



- When the analysis completes, Click on the “PDF Report” icon to preview the PDF report.



- When you are finished, click “Disconnect” and close the CardioVu program.



- To stop the 12-lead device from transmitting, press the <right> arrow, then the <enter> key. Press <enter> again to confirm shutdown.



- Disconnect leads from patient.

Note: After 3 minutes of disconnected transmission, the 12-Lead device will enter Sleep Mode. To awake the 12-Lead device from sleep mode, press any key on the keypad.



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