

# TotalECG<sup>™</sup> 12-Lead ECG

# User/Admin 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<sup>®</sup> line of Cameras, the most versatile and easy-to-use exam cameras on the market, eNcounter<sup>®</sup> 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.

Open File - Security Warning							
Do you	Do you want to run this file?						
	Name:2 express edition with tools w	ith sp1 x64.e	<u>exe</u>				
	Publisher: Microsoft Corporation						
	Type: Application						
	From: C:\Downloads\CardioVu\DISK1\en_sql_server_20						
	<u>R</u> un	Cancel					
	✓ Always ask before opening this file						
While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust. What's the risk?							

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.

Please Wait	Installing SQL Server

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

Microsoft SQL Server 2012 Service Pack 1 Express with Tools SP1
Preparing: D:\bc6724aa517cca8f47ba934e98\PCUSOURCE\1033_ENU\WVNTNRJQ.DLL
Cancel

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

SQL Server 2012 Setup	w be installed. If an undate for SQL Server Se	tun is found and specified to be included the
update will also be instal	led.	
Install Setup Files		
	SQL Server Setup files are being inst	alled on the system.
	Task	Status
	Install Setup files	In Progress
		< <u>B</u> ack Install Cancel



The Installation Progress screen will appear next.

🏫 SQL Server 2012 Setup		
Installation Progress		
Installation Progress	Install_sql_engine_core_inst_Cpu64_Action : Write_sqlFileSDDL_64. Setting File Security	
	Next > Cancel	Help

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.

<mark>ن</mark> ے ہے	M-12 requires the following items to be installed on your computer. Click Install to t stalling these requirements.
Status	Requirement
Pending	CrypkeyService

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

Click "OK" to finish the CrypKey installation.



Install

Cancel



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.

提 TM-12 - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, dick Back. Click Ca exit the wizard.	ncel to
ToetallShield	
Instalishield	Cancel

There may be a delay before seeingttvv 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 vsave the installation log.

🛃 TM-12 - InstallShield Wizard	
	InstallShield Wizard Completed
2	The InstallShield Wizard has successfully installed TM-12. Click Finish to exit the wizard.
2	
	Show the Windows Installer log
	< Back Finish Cancel



#### 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 arrowt 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.



5. 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".



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

1 device found.		
	EKG-C67B 00066609C67B	

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



#### How to Perform a Study

1. Click "Start Analysis" button to begin a new study.



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



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Test		White		34234	62/12/1962	61				63/05/2013 15 11
Contry	c	Black	F	93932	03/14/1943	69	Dr. Hechanova	Dr Adjordner		03/06/2013 16:20
Danas	w	Other	M	181721	03/14/1951	61				03/08/2013 14 10
Record	w	Other	M	181721	03/14/1951	61				03/06/2013 15:42
Baccos	w	Other	M	181721	03/14/1951	41				03/05/2013 10 49
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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.





4. When the analysis completes, Click on the "PDF Report" icon to preview the PDF report.



5. When you are finished, click "Disconnect" and close the CardioVu program.



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



7. 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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