



# cmr<sup>42</sup>

**VERSION 3.0**

**INSTALLATION GUIDE**

*October 26, 2009*

# System Requirements

(please check <http://www.circlecvi.com> for the latest system requirements prior to installation)

<b>cmr<sup>42</sup> System Requirements (Oct 2009)</b>		
<b>Hardware</b>	<b>Minimum</b>	<b>Recommended</b>
Processor (Intel)	Pentium Core Duo @ 1.83 GHz (or greater)	Pentium Multi Core, Multiple Processor @ 2.2GHz (or greater)
RAM <sup>1</sup>	2GB RAM	4GB RAM
HDD (cmr <sup>42</sup> )	100MB	100MB
HDD (Patient Workspace)	Will vary based on # of evaluated Patient Studies	
HDD (Patient Data)	Will vary based on # of Patient Studies (DICOMs)	
Screen Resolution <sup>2</sup> (pixels)	1280x800	dual screens up to 2560x1600
Video Card <i>(must be compatible with OpenGL 1.1)</i>	Integrated Intel GMA 3100	supported chipsets ATI X1900, X2600, NVidia 7300, 8800 (256MB VRAM or greater)
Video Card for 4D Viewer (must support OpenGL 2.1, equivalently OpenGL 2.0 with shading language 1.2, or higher)	nVidia GeForce 8xxx series or ATI Radeon 1xxx series (256 MB RAM or greater depending on the study size) <i>Software Renderers are not supported.</i>	Supported chipsets nVidia GeForce 8600/8800 series or ATI Radeon HD 4800 series (512 MB RAM or greater depending on the study size)

<b>Operating System</b>	<b>Minimum</b>	<b>Recommended</b>
Windows	XP (Service Pack 2)	Vista (Service Pack 1)
Macintosh*	Mac OS X 10.5.7	Mac OS X 10.5.7
*Mac OS X 10.6 is not officially supported at the time of this writing.		

<b>Image Source</b>	<b>(DICOM Image File Format)</b>
Local HD	<i>folder(s) of DICOM Images</i>
cmr <sup>42</sup> Workstation(s)	<i>(over the network via TCP/IP)</i>
MRI Scanner(s)	<i>(over the network via TCP/IP)</i>
PACS	<i>(over the network via TCP/IP)</i>

## Where to download

(latest version) - see Fig. 1 for screenshots

- Go to "<http://download.circlecvi.com>"
- Choose Test Drive "[Start the signup process](#)"
- Fill in your registration details and click "**Submit**"
- Check your e-mail for your "[download link](#)" and password
- The link provided by e-mail will take you to the license agreement and the download selector
- Select a version of cmr<sup>42</sup> and click the "**Agree and Download**" button

## Installation on Microsoft Windows

(cmr<sup>42</sup> for Windows) - see Fig. 2 for screenshots

- Double-click the **cmr42\_3.0.0\_(x)\_win.msi** (in your downloads folder)
- Follow the instructions in the installer (by clicking "**next**" over the next few pages until "**finished**")
- Double-click the **cmr<sup>42</sup> icon** on the Desktop or select **cmr<sup>42</sup>** (in Windows->Programs->cmr<sup>42</sup>)

## Installation on Mac OS X

(cmr<sup>42</sup> for Mac)

- Double-click the **cmr42\_3.0.0\_(x)\_mac.dmg** (in your downloads folder)
- Open the cmr42 volume (double click on the cmr42 disk icon in the finder)
- Drag the cmr42 folder to your Applications folder (in the Macintosh HD)
- Create a Shortcut (Optional) - Drag the "**cmr42 folder**" from the Applications folder into the Dock
- To launch cmr<sup>42</sup>, Double-click on the "**cmr<sup>42</sup> application**" icon (in the finder or in the Dock)

## Activation Procedure

(if upgrading or re-installing you may already have a valid key and can skip this section)

- [Key Activation can be seen online at http://download.circlecvi.com](http://download.circlecvi.com)
- "**Request**" a key (provide your name, institution, and e-mail address)
- "**Install**" a key (as provided by e-mail)
- Repeat for each computer

## Testing your installation on first run of cmr42

(Sample DICOM studies can be downloaded from <http://education.circlecvi.com>)

- "**Import**" a study (from a folder of DICOM images or a DICOM CD by clicking on "**Import Images**")
- "**Query**" a study from PACS (requires advanced DICOM Network configuration)
- "**Retrieve**" a study from PACS (requires advanced DICOM Network configuration)

## Backup Strategies

- The **user workspaces** are located in the current User/Documents/cmr42-2/workspaces/ directory
- The **DICOMs** are located in cmr42imagedb which can be set in cmr<sup>42</sup> preferences->config->Database panel

## FAQ

### Q - Why does my download password not work?

A - Name and Passwords are case sensitive. Please recheck these or e-mail support@circlecvi.com

### Q - Why does my activation key not work?

A - Activation Keys are Machine-Specific. A key for computer A will not work on computer B.

Does your activation key machine id match your cmr<sup>42</sup>-reported machine id?

Keys also become invalid if the date is set backwards (24 hours or more) to extend the life of the key.

### Q - Can I connect remotely to run cmr<sup>42</sup> on my remote computer?

A - Keys do not work over RDP (remote desktop protocol) - unless specifically requested as a remote access key. If there are multiple users on a single computer each user account needs to have the activation key applied to their own login account.

### Q - Why do I get an "invalid key error" when I try to start cmr<sup>42</sup>?

A - Is your key expired? Evaluation keys typically are set to a 1 month expiration. Each day cmr<sup>42</sup> is run in the last 30 days before expiring a warning countdown message will be displayed on startup.

### Q - Why is the 4D Viewer module is greyed-out?

A - The 4D Viewer requires a dedicated graphics processor with at least 256MB of VRAM. If the current video card in the computer does not meet the minimum requirements of the 4D Viewer module the module is turned off (until a capable video card is installed).

### Q - Why can I query and get query results from my PACS but am not able to retrieve studies?

A - PACS query retrieve requires that the PACS server knows your unique AE TITLE, IP Address, and TCP/IP port number that cmr<sup>42</sup> is listening on. Another common cause is that the "Use InBuild StoreSCP" is not turned on (in the config->networking tab)

### Q - When I start cmr<sup>42</sup> why do I see a "StoreSCP already in use" error in the message pane?

A - If cmr<sup>42</sup> was forced to quit or quit unexpectedly the StoreSCP process may still be running. This can be checked by the Task Manager (Windows) or the Activity Monitor (Mac)

### Q - On importing a study why does the Progress bar counts to 100% and then starts over several times?

A - cmr<sup>42</sup> shows the progress of the import of each folder within the import directory structure. This is a known issue and is planned to be fixed in the near future.

## Advanced Configuration - DICOM Image Database Storage options

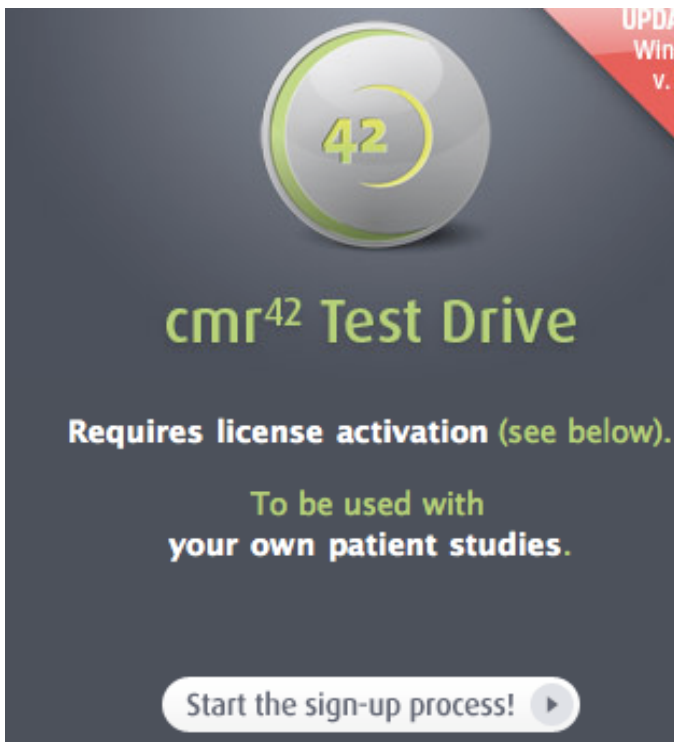
(Optional settings for configuring the cmr<sup>42</sup> DICOM Database)

- In "cmr<sup>42</sup>->preferences" on Mac or "Config->Config" on Windows - select the "Database" tab
- **Image Database Directory** (you decide where you want incoming DICOMS to be stored - Must be a read-writable directory named **cmr<sup>42</sup>imagedb** to be readable by cmr<sup>42</sup>)
- **External Databases** (let you connect to other cmr<sup>42</sup> image databases on the network)
- **Sub Databases** (let you create up to 5 separate buckets to drag and organize your patient studies)

## Advanced Configuration - DICOM Networking Parameters

(Optional settings for setting DICOM communications are found in the cmr<sup>42</sup> v3 Manual pdf which is included in the cmr<sup>42</sup> folder after installation)

Fig. 1 - Online Signup/Registration for Download - at <http://signup.circlecvi.com>



UPDA  
Win  
v.

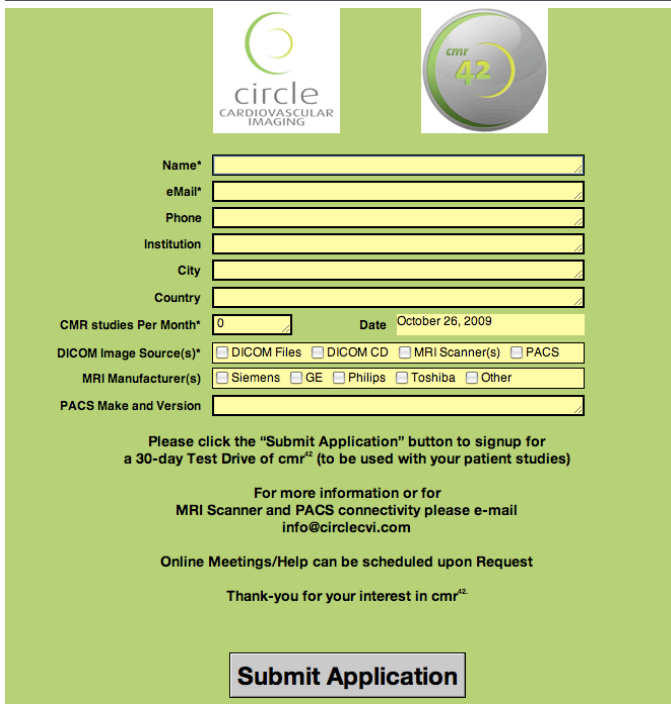
**42**



# cmr<sup>42</sup> Test Drive

Requires license activation (see below).

To be used with  
your own patient studies.

Start the sign-up process! ▶



Name\*

eMail\*

Phone

Institution

City

Country

CMR studies Per Month\*  Date

DICOM Image Source(s)\*  DICOM Files  DICOM CD  MRI Scanner(s)  PACS

MRI Manufacturer(s)  Siemens  GE  Philips  Toshiba  Other

PACS Make and Version

Please click the "Submit Application" button to signup for a 30-day Test Drive of cmr<sup>42</sup> (to be used with your patient studies)

For more information or for MRI Scanner and PACS connectivity please e-mail [info@circlecvi.com](mailto:info@circlecvi.com)

Online Meetings/Help can be scheduled upon Request

Thank-you for your interest in cmr<sup>42</sup>

**Submit Application**

### Select your version:

- Windows XP/Vista
- Windows XP/Vista (U.S. Research version)
- Mac OS X
- Mac OS X (U.S. Research version)

[CLICK TO ACCEPT AND DOWNLOAD cmr42 »](#)

Fig. 2 - cmr<sup>42</sup> for Windows Installation screenshots

