XCV-Imager Software User Manual

XCV-Imager Software is a custom application designed for the **X-Ray Controller models XC-VPC-LAN and above (hereafter referred to as XCVL)**. This application which runs on a Windows XP PC is capable of uploading and downloading images to and from **XCVL**, provided both are connected through an Ethernet LAN (Local Area Network).

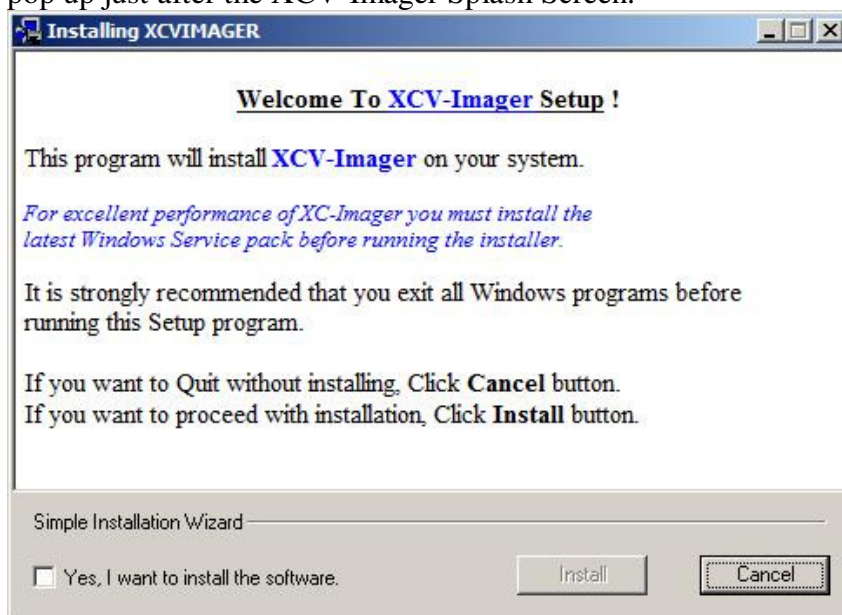The application is best viewed in **'1024 X 768'** resolution.

This manual will guide you through the installation and working procedure for the software.
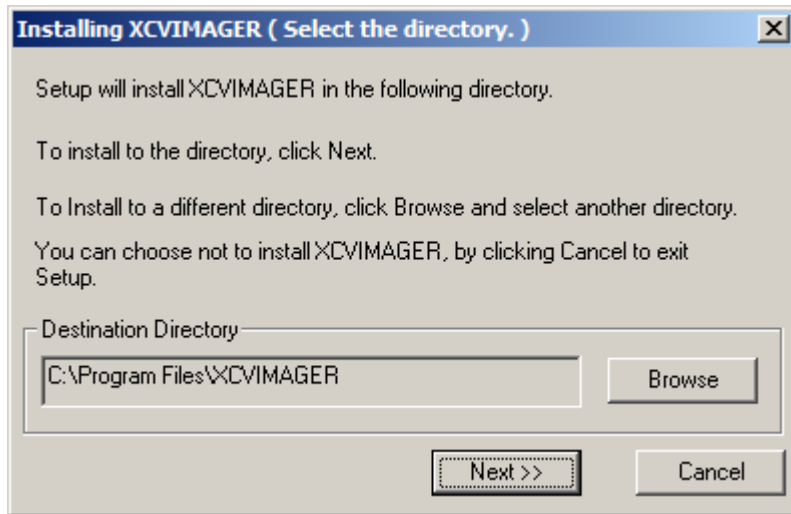
1. (A) Software Installation:

The software will be provided in a Compact–Disc (CD). The CD should contain the following files. Contact your dealer if any files are missing.

1.   1. Autorun.inf
2.   2. Desc.rtf
3.   3. Setreg.chg
4.   4. Setup.bmp
5.   5. Setup.cfg
6.   6. Setup.exe
7.   7. Setup.ico
8.   8. Setup.un
9.   9. XCV-Imager.exe

The CD will auto run on inserting in a CD-ROM drive. A dialog-box as shown below will pop up just after the XCV-Imager Splash Screen.
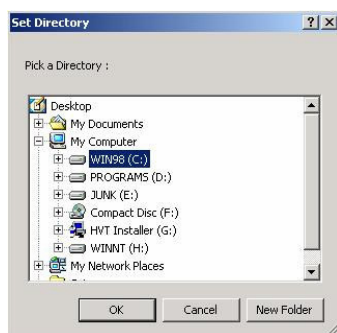
Select the '**Yes, I want to install the software**' check box, and click the **Install** button if you want to install the software or click **Cancel** to exit the setup. The dialog-box shown below will pop up, on clicking the **Install** button.
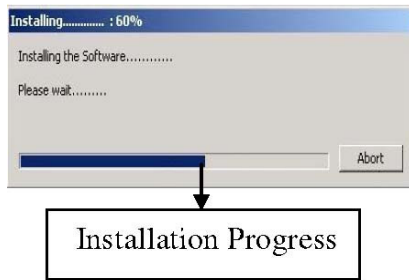

You can choose to install the software in the folder specified in the '**Destination Directory**' text–box by clicking the **Next** button or select another directory by clicking the **Browse** button.

On clicking the **Browse** button, a dialog-box pops up as shown below.

Click the **OK** button after selecting a different directory and click the **Next** button to install the software to that directory.

On clicking the **Next** button, the software installation will begin and the progress will be shown. Installation can be aborted at any time by clicking the **Abort** button in the dialog-box.

Installing.............. : 60%

Installing the Software............

Please wait.........

Abort

Installation Progress

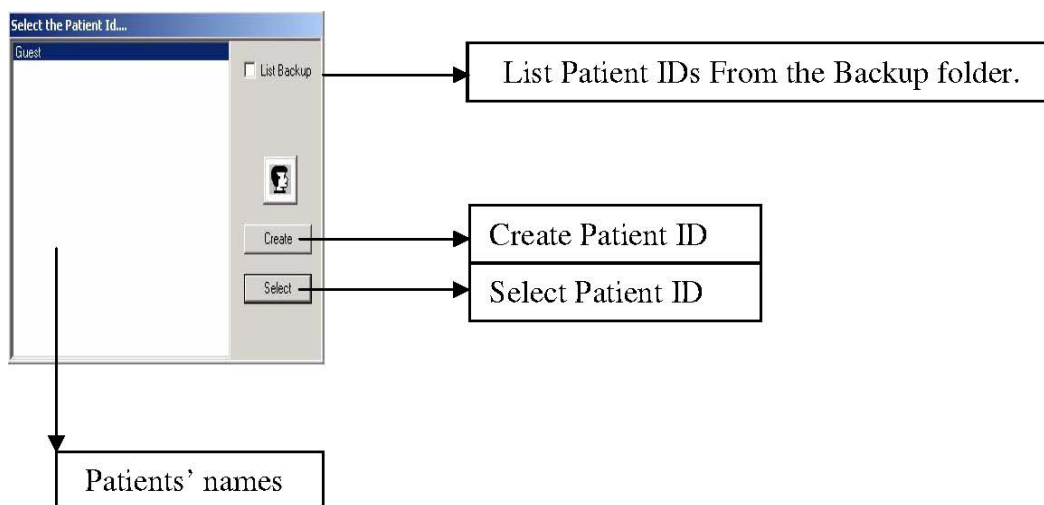When the installation is over, the user will be notified by an '**Installation Complete**' dialog box.

Shortcuts will be placed on the desktop and pinned to the **Start -> Programs** menu.

1. (B) Uninstalling the software:

You can uninstall the software by selecting it from the **Add/Remove Programs** in the **Control Panel** or by running the **Uninstall.exe** from the folder to which the software was installed.
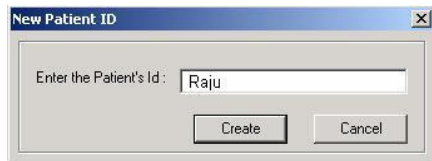
2. Things to know while running the software after installing it:

A dialog box listing the patients' names will appear whenever the application is executed.

Select the Patient Id....

Guest

☐ List Backup

List Patient IDs From the Backup folder.

Create → Create Patient ID

Select → Select Patient ID

Patients' names

2. (A) Patient ID List (Patients' names):

It will contain the names of the patients created through the software. A new Patient ID can be created clicking the **'Create'** button. A dialog box as shown below will pop up asking for the Patient's name. Enter the Patient's name and click the '**Create**' button.

The Patient ID will be created and listed in the Patient ID List. Each Patient ID has it's own settings.

The directories of the patients will be created in a sub-folder named **'XCImages'** under the folder where the software was installed. Click the **'Select'** button after you have selected the right patient from the Patient ID List.

The images if any, in the selected patient's directory, will be loaded to the software.

2. (B) List Backup:

'List Backup' option allows loading and previewing the images that are not in Patient ID List. The images, which are to be viewed, have to be copied to a specific folder and then that folder has to be copied to a sub-folder named **'Backup'** in the **'XCImages'** folder.

The folder's name will be listed in the Patient ID List when the **'List Backup'** option is clicked and the images if any, in the selected patient's directory, will be loaded to the software.

2. (C) Details Regarding deleting a Patient ID:

If you want to delete a specific Patient ID, delete the directory having the patient's name in the **'XCImages'** folder. (Make sure that '**X-Ray Controller Software'** is not running while doing so.)
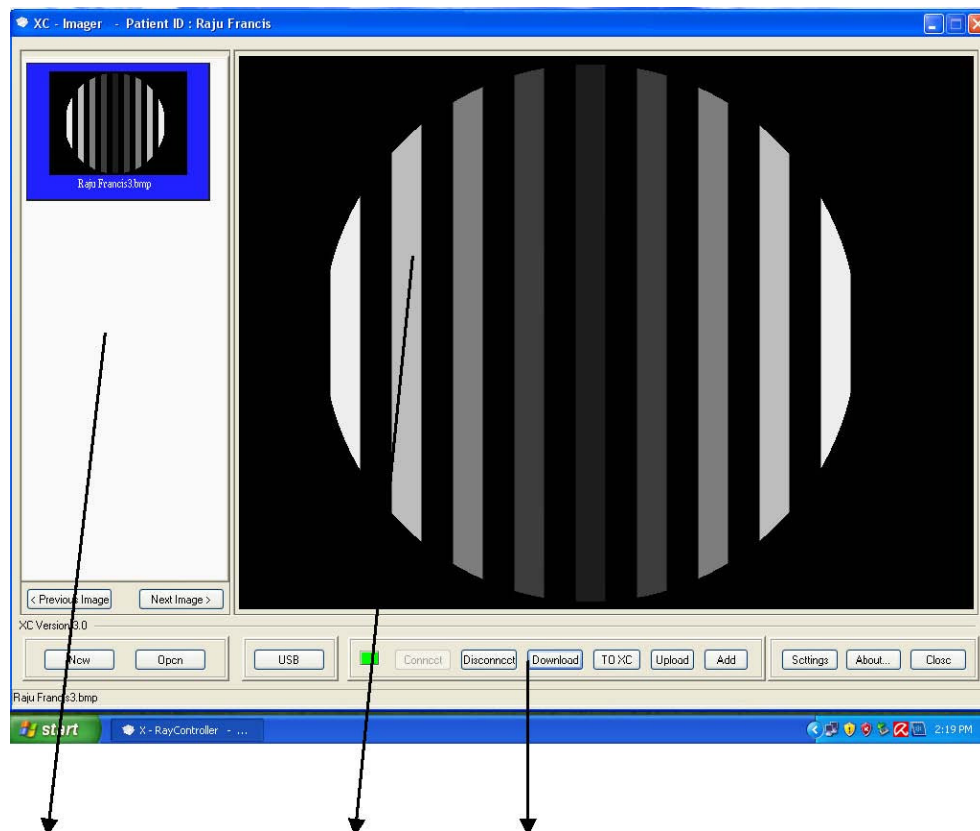
After deleting the specific Patient ID run the **'X-Ray Controller Software'.**

Note: You won't be able to get back the Patient ID once you have deleted it. So, be sure that you are doing so only after taking a backup.

3. User Interface Area of the application

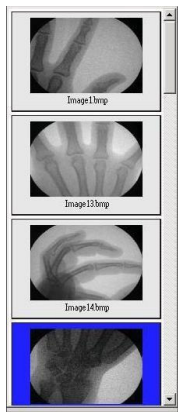The application can be divided into 3 parts:

1.   1. Thumbnail View area,
2.   2. Image View area and
3.   3. User's Control area.

(1) (2) (3)

The title bar of the application shows the selected Patient ID's name along with the application name.

3. (A) Thumbnail View area

This area shows the images loaded from the selected Patient ID in an attractive thumbnail view. The background of the currently selected image will be **BLUE** in color. The last image in the thumbnail view will be selected when a Patient ID is selected.

3. (B) Image View area

This area shows the selected image from the **'Thumbnail View area'** in **'768 X 576'** resolution.

3. (C) User's Control area

This area contains the controls by which user can do the following operations:

1.   1. Create a new Patient ID.
2.   2. Open an existing Patient ID.
3.   3. Set the connection parameters.
4.   4. Download images from **XCVL**.
5.   5. Upload images to **XCVL**
6.   6. Import images from a USB memory stick used with **XCVL**
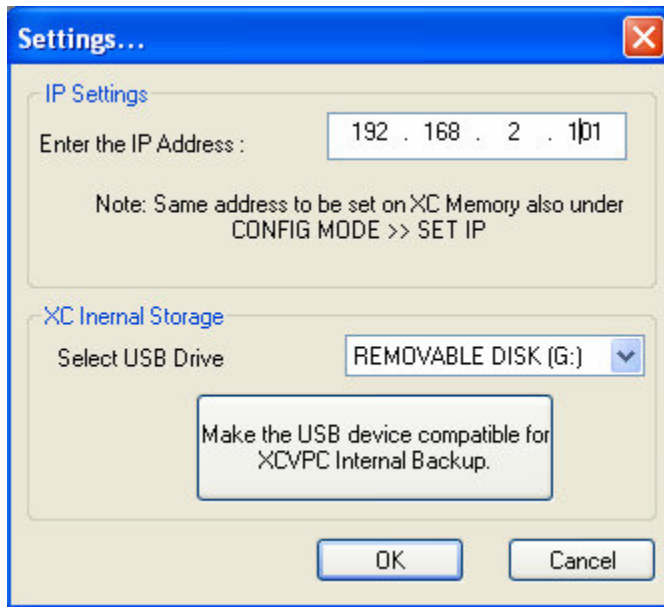
There are 12 controls in this area. They are:

1.   1. New – Create a new Patient ID.
2.   2. Open – Select an existing Patient ID.
3.   3. USB – For importing images from memory stick
4.   4. Connect – Connect to **XCVL**.
5.   5. Disconnect– Disconnect from **XCVL**.
6.   6. Download – Download images from **XCVL**.
7.   7. To XC – Upload the selected image to the **XCVL'**s LIH monitor.
8.   8. Upload – Upload a number of images in a list to **XCVL**.
9.   9. Add – Add images to the list for Upload.
10. Settings – Set the connection and download speed parameters.
11. About – Displays version number, date of release etc. of the software.
12. Close – Exit from the application normally.
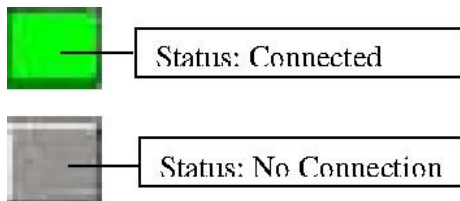

4. LAN and Connection Settings:

XCVL and the PC running XC-Imager Software have to be connected through an Ethernet LAN. After proper connection, note down the **IP Address** of **XCVL**.

Click the **'Settings'** button and enter the **IP Address** of **XCVL** in the space provided for that in the pop-up dialog box.

After entering the **IP Address** click the **OK** button. The **IP Address** will be saved and further connections will be made to this **IP Address**.

To establish a connection from the PC to **XCVL** click the **'Connect'** button. The connection will be established within a few seconds. The indicator below the **'Connect'** button will show the connection status. The indicator will be **GREEN** while connected and **GRAY** otherwise.

Status: Connected

Status: No Connection

To disconnect, click the **'Disconnect'** button.

5. Download, Upload and ToXC
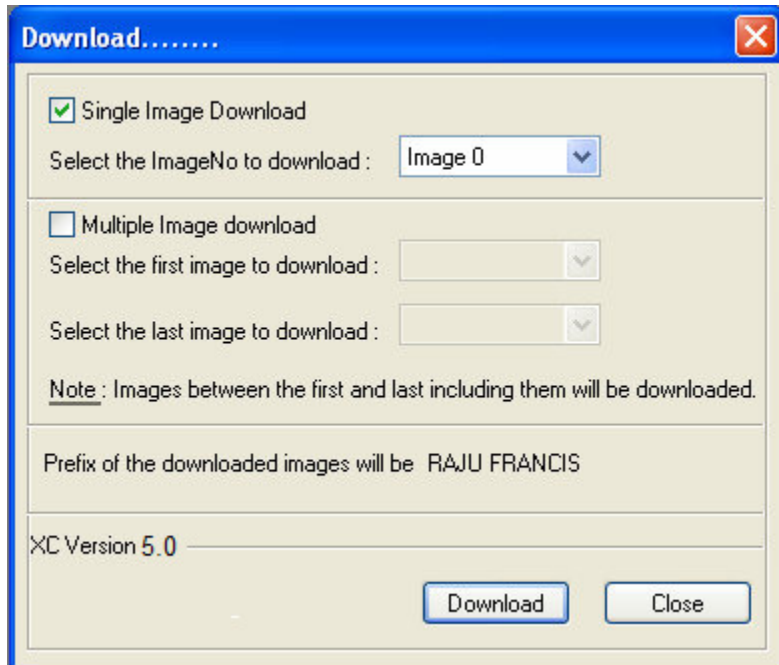
5. (A) Download

The download facility of the software allows the user to download the images stored in

XCVL to the PC and save it in the local hard disk.

The images will be downloaded to currently selected Patient ID's directory.

The available options for download are:

1.   1. **Single Image Download** and
2.   2. **Multiple Image Download**.

Click the **'Download'** button for setting the download options and for downloading after that.

5. (A) (I) Single Image Download

Select the **Single Image Download** option to download any single image from the **XC LAN**.
5. (A) (II) Multiple Image Download

Select the **Multiple Image Download** Option to download multiple images from the **XCVL.** The images selected from the first to the last will be downloaded.

Note:
Image0 represents image in the LIH monitor. Image1 represents the 1st Image in the **XCVL** and so on.

Click the **'Download'** button to start downloading.

The image/s will be saved to the current Patient ID's directory and will be saved as

Bitmap images (with .bmp extension).

The download progress will be shown in a simple dialog box and the can be aborted any time.

The downloaded images will be shown as thumbnails and the last image downloaded will be shown in the **'Image View area'**.

Note:
It is advisable not to perform any operation in the PC during download as it may affect the application. Data transfer rate from the **XCVL** is high during download.
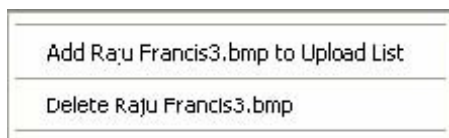
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5. (B) Upload:

The **Upload** facility in the application allows the user to upload image/s from the local

hard disk to **XCVL**.

Follow the following steps to upload image/s.

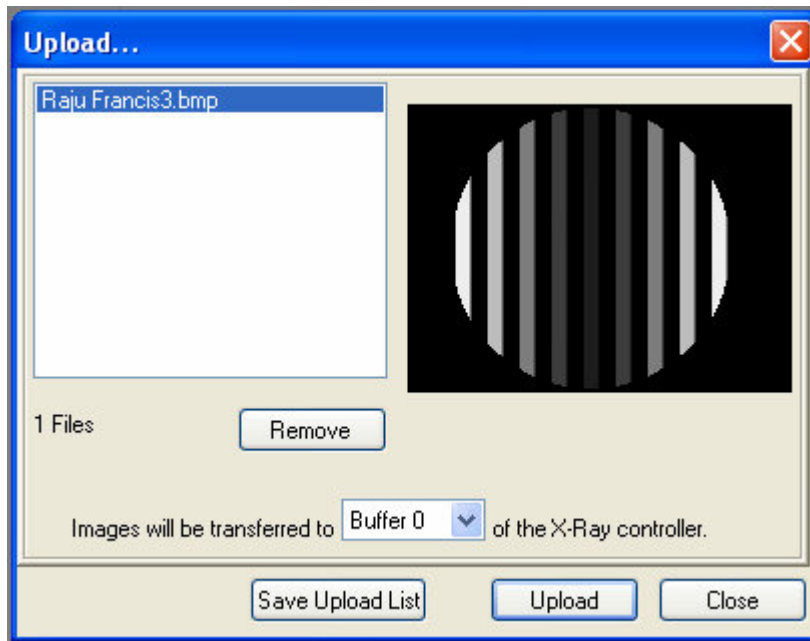Step 1. Select the **'Patient ID'** by clicking the **'Open'** button.

Step 2. Select the first image to be uploaded.

Step 3. Right click on the **'Image View area'** and Select the option **'Add Image2.bmp to Upload List'**. (Where **'Image2.bmp'** is the name of the image to be uploaded.)

Step 4. Select the next image to be uploaded and repeat **Step 3.** Continue these till you have finished adding all the image/s to be uploaded.

Step 5. After adding the image/s, click the **Upload** button to view the **Upload List** and upload the images.

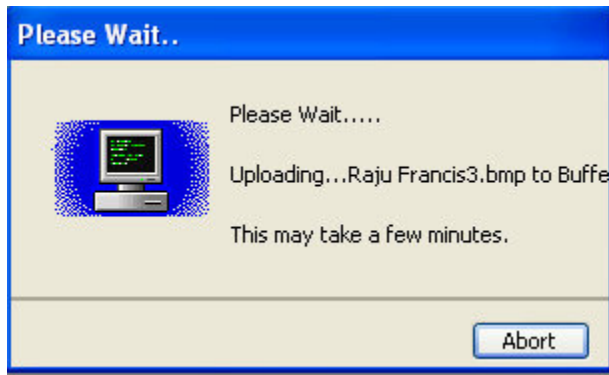**5. (C) Additional Settings in the Upload List:**

5. (C) (I) Remove from Upload List:

If you want to remove any image from the **'Upload List',** select the Image, click the **'Remove'** button and then click the **'Save Upload List'** button to save the **'Upload List'**.

5. (C) (II) Upload Image/s to Specified Buffer:

The buffer number setting in the dialog box allows uploading the images to that specified buffer so that the images in **XCVL** buffers before that are not overwritten.

The upload progress will be shown in a simple dialog box and it can be aborted any time. The remaining images won't be removed from the **'Upload List'** if aborted.
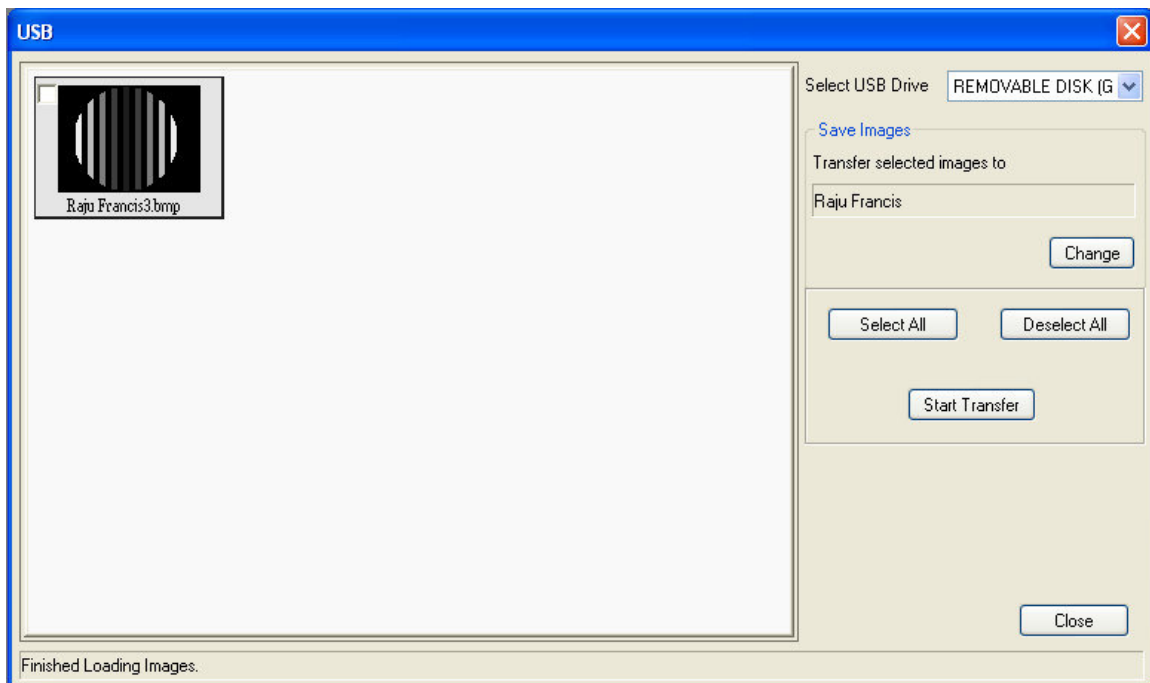
The images to be uploaded will be drawn in the **'Image View area',** so don't minimize or perform any other operation during upload. Doing so, will result in corrupt images being uploaded to **XCVL**.

5 (D) ToXC:

On clicking the **'ToXC'** button the currently selected image would be transferred to the LIH monitor of **XCVL**.

6. USB

This button is used to import images from memory sticks for uploading to XCVL. Clicking this button brings up a dialog box as shown below.

All the images in the USB memory stick are displayed in thumbnail form. User can select any number of images. On clicking 'Start Transfer' these images are loaded to the currently selected patient folder.