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<td>DICOM CD/DVD burning software for the Flash IIP on Dell GX780 or newer.</td>
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DICOM Image Viewer Software

1. Overview

DICOM Image Viewer is a software program that receives DICOM images from Fuji's Flash IIP software. All images are then added to a local database which can be queried by using user-customized filter windows. The software allows you to archive patient exams by creating both CDs and DVDs. You may choose to create single patient CDs with a mini-Viewer for referrals as well as archive multiple patients onto DVD with a DICOM directory for disaster recovery, or transfer to another PACS. The FMSU software part number is X-CD-VWR-SW-03. The new DICOM Image Viewer software does not require the installation of Nero Burning Software.
2. Installing DICOM Viewer

1. Insert the CD labeled “DICOM Image Viewer Installation CD”

**NOTE:** If CD does not automatically load, click Start, All Programs, My computer and double-click on “FujiCDCreator”

2. You should see these files:
   - DICOM Image Viewer – the software program to burn CDs & DVDs
   - HASP USB Setup – the software program to recognize USB security dongles

   **Version3.0.0.7**
3. Double-click “DICOM Image Viewer”

4. Click [Next] to continue

5. Click [Yes] to continue
6. Click [Next] to continue

7. Progress Bar will display in next window

8. Click [Finish] upon completion

**NOTE:** If you received a USB security dongle as part of your installation package, you must continue to step 3 to load the HASP driver for the software to operate when the security USB dongle is plugged into a USB port on the Flash IIP workstation. If you did not receive a USB security dongle, you will be prompted to license the software manually by email or phone when you run the software for the first time.
3. Install HASP Driver

1. To load the HASP driver, double-click “HASP USB Setup”

![HASP USB Setup](image)

2. HASP device driver screen will appear

![HASP Device Driver](image)

3. Click [Next] to begin installation

![HASP Device Driver Installation](image)
4. Select “I accept the license agreement” and then click [Install]

5. Please wait for the drivers to install

6. To complete installation, click [Finish]

7. A license code must be provided by 1 of 2 methods:
   - **Code supplied by Genesis** – This can be obtained by sending an email to or calling Genesis with the License Key provided by the application.
E-mail: Sales@genesisdigital.com
Phone: 1-888-436-3444

- **USB Dongle** – If you received a USB security dongle as part of your installation package, plug it into a USB port on the Flash IIP workstation, the HASP driver will recognize it and open the program.

8. Remove the CD from the CD-ROM drive.
Configuring the Flash IIP for the DICOM Image Viewer

1. Entering the Flash IIP Service Utility mode

1. From the Flash IIP desktop, double-click the FCR Icon

2. Within a period of 5 seconds after the application splash screen window opens, sequentially click the upper left then upper right corners of the window.

3. The Service Utility mode will start and the “IIP Service Utility” window opens. A password is required for version 7.0 or higher.

REFERENCE

If you cannot complete step (2) above from the initial window within a 5 second period and allow the AP to start up, perform the following steps to start the Service Utility mode.

To exit the AP, hold down the <Shift> key and select “Shut Down” on the “FUJIFILM” menu and repeat steps 1 and 2 above.
4. Select the Setup Configuration button.

2. Set up “This Host”
   1. Select NETWORK CONFIG, then DICOM, and highlight FCR-CSL.

   ![Configuration Screen](image)

   2. Click on [New]

   3. Choose [CRImageStorage] for [Abstract Syntax] and choose [SCU] for [Role] and click [OK]

   ![Additional Configuration Screen](image)
4. Click on [New]

5. Choose [Verification] under [Abstract Syntax] and Choose [SCU] for [Role] and click [OK]

6. Click [Config] in top left corner and choose [Save]
3. **Create New Node**

1. Click on the plus sign next to NETWORK CONFIG if not opened
2. Click on ALL OTHER NODES (which is under NETWORK CONFIG) until highlighted
3. Click NEW to bring up New Node box
4. In the field for HostName type OMNIVUE
5. In the field for IP address type the local IP address

**NOTE:** To identify the IP address, first go to Start and then Run. Type in [cmd] and hit Enter and a box with a DOS prompt will pop up. Type in [ipconfig] and hit Enter. Your IP address will then be displayed. Close out of the box.

6. Choose the radio button DICOM
7. Click OK to bring up Application Entity List Box
4. Setup AE title and port

1. In the Application Entity Name field type OmniVue

2. In the Port Number field type 4810

3. Click [New] to bring up DICOMSetup Box
5. Create Abstract Syntax CRImageStorage

1. In the Abstract Syntax drop down box choose: CRImageStorage

2. For the Role radio button choose: SCP

3. In the Transfer Syntax drop down box choose: ImplicitVRLittleEndian
4. In the Acceptable Density field choose: ST & HQ & SH

5. In the Default Output Density field choose: HQ/SH

6. In the Image Processing field choose: PROC
7. In the LUT Operation field choose: Apply LUT correction process to the image

![Image of LUT Configuration Panel]

**NOTE**: If the IIP application software is V5.0 or earlier, choose 10-bit from the bit field box. Recommend use of 12-bit for V5.0.

8. Click OK to go to the Application Entity List Box
6. Create Abstract Syntax: Verification

1. Click New to bring up DICOM Setup Box

2. In the Abstract Syntax drop down box choose: Verification

3. In the Role radio button field choose: SCP
4. Click OK go to the Application Entity List Box
5. Choose OK again to go to Setup Configuration Box
6. Click Config, Close and Save

7. Close out of Service Utility

7. Adding the LUT
1. Go to C:\Program Files\FujiFilm\IIP\CrtLut

2. If the IIP application software is V4.1, choose mono_PL300__LL.lut and copy and paste and rename in same folder to the AE title which is OmniVue.lut
3. If the IIP application software is V5.0, and 12 bit is selected, choose mono_PL300_LL_16.lut and copy and paste and rename in same folder to the AE title which is OmniVue.lut

8. Configuring DICOM Image Viewer to launch with Windows

1. From the Windows desktop, right click the My Computer Icon and select Explorer

<table>
<thead>
<tr>
<th>Open</th>
<th>Explore</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Search...</td>
</tr>
<tr>
<td></td>
<td>Manage</td>
</tr>
<tr>
<td>Map Network Drive...</td>
<td>Disconnect Network Drive...</td>
</tr>
<tr>
<td>Create Shortcut</td>
<td>Delete</td>
</tr>
<tr>
<td>Rename</td>
<td>Properties</td>
</tr>
</tbody>
</table>
2. Once in Windows Explorer, navigate to: C:\Documents and Settings\All Users\Start Menu\Programs\Startup

3. From the Desktop, right click the OmniVue icon and select Copy.
4. From inside the Startup folder, right mouse click and paste the OmniVue shortcut if not already there.

5. When complete, you should see the shortcut in the Startup folder as shown.
6. Restart the PC and allow it to launch to IIIP. Verify the DICOM Image Viewer software starts automatically by pressing [Alt] and [Tab] simultaneously. If the software did not start review section 2.8.

7. Be sure the dongle is attached if one was sent. If not, enter license code and when prompted log on with Genesis as the password.
9. **Sending an image to the DICOM Image Viewer**

1. Open the IIP application and choose the [All] Tab.

   ![Image 1](image1.png)

   **Table:**

<table>
<thead>
<tr>
<th>Accession No</th>
<th>Patient's Name</th>
<th>Patient ID</th>
<th>Study Date</th>
<th>Study Time</th>
<th>No. of Image</th>
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</thead>
<tbody>
<tr>
<td>00010007</td>
<td>ANKLE</td>
<td>0010007</td>
<td>01.03.2007</td>
<td>14:31:23</td>
<td>2</td>
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<tr>
<td>00010006</td>
<td>CHEST</td>
<td>0010006</td>
<td>01.03.2007</td>
<td>14:17:04</td>
<td>2</td>
</tr>
<tr>
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<td>1</td>
</tr>
</tbody>
</table>

2. Select and open a study from worklist.

3. Click the [Delivery] tab and click the computer icon.

![Image 2](image2.png)
4. Click the computer icon with the plus sign.

5. Choose OmniVue.
6. Click OK, and OK.
7. Click Deliver Study icon.
Using DICOM Image Viewer

1. **How to Burn CDs & DVDs using the DICOM Image Viewer software.**

   Follow the steps as outlined below using the provided screen captures.

1. Search Field(s) and enter patient information (Sex, Patient ID, Modality, Disease, Study Description, Study Date Range, etc.)

2. “Search” button will display a patient list that matches the Search Fields you have chosen

3. Select Exam(s) from patient list (to select multiple exams use Shift or Ctrl key)

4. Compression Level can be selected from the drop-down menu (see diagram)

5. “Copy” or “Move” and add “Copy Simple Viewer” and “Include DICOM DIR”

**NOTE:** The “Move” option is the preferred method to ensure the images are deleted from OmniVue or it will fill up the IIP HDD making the IIP inoperable.

- “Copy” will burn a copy of the selected exams to CD/DVD and leave the originals in the Omni-Vue patient list

- “Move” will burn all selected exams to CD/DVD and delete the originals from the Omni-Vue patient list

- “Simple Viewer” will add an application that will self load when the CD is loaded on another computer and allow image manipulation. This is most commonly used when “Copy” and “Simple Viewer” are selected together to burn single patient exams onto CD for referrals

- “Include DICOM DIR” will add a DICOM Directory of patient data so the selected exams can be loaded onto other DICOM viewers and PACS systems. This is most commonly used when “Move” and “Include DICOM DIR” are selected together to create an archival DVD backup of selected images to be stored at another location for disaster recovery

6. “Backup” will start the burning process
2. Simple Viewer Patient List

When "Copy Simple Viewer" is selected during CD burning, it will launch the Simple Viewer application automatically when the patient CD is inserted into the CD drive of a Windows XP or Vista computer system. Simple Viewer is a DICOM viewing application that allows you to view and manipulate images saved onto the CD database.

1. When the CD is inserted, it will Autoplay and automatically display the Patient Exams burned onto the CD
2. To narrow the selection of displayed patient exams, you may select your Search Field(s), enter patient information and then click “Search” button to display a patient list that matches the Search Fields you have chosen
3. Select Exam(s) from patient list (to select multiple exams use Shift or Ctrl key)
4. Click “Open” to view images in the Simple Viewer image window (or double-click Exams)
5. As an option, you can select “Send” to use DICOM Storage Class User to send exams to another PACS or Viewer location
3. Simple Viewer Image Window

<table>
<thead>
<tr>
<th>Viewing Options Include:</th>
<th>Image Manipulation Options Include:</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Scout</td>
<td>Auto Window Level</td>
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<td>Inversion</td>
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<tr>
<td>2 Vertical</td>
<td>Display Real Size</td>
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<tr>
<td>2 Horizontal</td>
<td>Rotation CW, CCW</td>
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<tr>
<td>2x2</td>
<td>Flip Horizontal, Vertical</td>
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<tr>
<td>DICOM Header</td>
<td>Zoom</td>
</tr>
<tr>
<td></td>
<td>Pan</td>
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<tr>
<td></td>
<td>Magnifying Glass</td>
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