

## DICOM EDITION



### Intuitive WEB interface

Manage your patient CD and archiving jobs using any web browser in your network.

## Moving from film to CD, DVD & BluRay

Patient CD production

DICOM Image Archiving

Automated operation

Cost effective



Powered by

# R I M A G E

## Features & Benefits

- Patient CD recording & printing
- Query/Retrieve archived studies
- Off-line archiving to DVD/BD
- Retrieve images from PACS
- Easy operation
- WEB based intuitive user interface
- Advanced customization  
Print templates & workflow
- DICOM & IHE PDI compliant
- Anonymization
- Add reports from RIS to CD  
DICOM Structured Reports  
HL7, HTML, C-Find, Database, UNC
- Use any DICOM viewer
- Secure encryption (option)
- Multilingual  
English, Spanish, Brazilian Portuguese, French, German, Russian, Chinese, Greek, Polish & Dutch



Automated CD/DVD/BD recording, printing and reading thanks to the state-of-art Rimage production robots.

### All-in-One solution

Perennity DICOM offers a turnkey solution for the medical industry to output examination data from any DICOM compliant modality or PACS to CD, DVD and BluRay. It substantially reduces production costs compared to traditional film. Any DICOM Viewer can be added to the disc to display and manipulate the DICOM images.

Once processed, you may decide to keep all DICOM images for archiving purposes. Images can be stored on large capacity RAID systems or long term archive storage solutions (e.g. Fast-LTA Silent Cube). You will be able to query and retrieve studies stored in the Perennity archive using any DICOM workstation searching by patient, study, ...

### Patient CD production

Perennity uses CD/DVD autoloaders (robots) to automate the production, and at the same time personalize the media with a custom label. Any information can be printed on top of the CD/DVD: patient name and identifier, date and time, list of studies, etc. Of course you can also add logos and pictures to the printout, or even thumbnails of included images. Patient CDs can also be encrypted (available as an option).

### DICOM Image Archiving

Perennity can also be used as an archiving solution for DICOM images. It will act as a Store and Query/Retrieve SCP. Furthermore, an off-line backup to DVD or BluRay can be optionally performed for long term secure archiving.

Perennity extracts all relevant metadata (patient and study information) from the processed DICOM images and stores these in a database (MySQL or MS SQL Server). Up to five custom fields (DICOM tags) can be defined for extraction and printing.

### Automated operation

Perennity interfaces with all CD/DVD autoloaders from Rimage, the leading manufacturer in CD/DVD/BD production solutions for the medical industry. Rimage offers a complete range of robots, meeting any requirements in terms of throughput and print quality. A choice is offered from several printing technologies : thermal printing for a highly professional indelible print quality, or inkjet for less demanding applications. Rimage systems based on the Prism thermal printer also offer the possibility of personalizing preprinted discs, thereby dramatically reducing operational costs.

### Intuitive WEB interface

Our web-based graphical interface is extremely user friendly. It is accessible from any web browser in your network.

### Limited investment

Perennity DICOM edition is one of the most affordable solutions of its kind available in the market today. It offers all the functionality - Patient CD, Image Archiving & Upload - of competing products at just a fraction of the cost.

### 100% DICOM compliant

- Store and Query/Retrieve SCP
- Query/Retrieve SCU from existing PACS
- Fully compliant DICOM/IHE PDI Patient CDs
- Support of DICOM Structured Reports

### Use any "DICOM Viewer"

Perennity works with almost all DICOM viewers. The Weasis cross-platform (Windows, MAC & Linux) viewer is included for free. We offer IQ-Lite, eFilm or Keosys as an option. You may add any other DICOM application(s) to each CD/DVD. You may also configure the DICOM viewer to autorun when inserting the disk in a CD/DVD reader.

# How it works ...

## System requirements

### Operating system

Windows 7, 8 & 10

### Memory

Minimum 4GB RAM

### Processor

Dual Core processor

### Hard disk space

At least 40GB (program only)

Two HDDs minimum

### Database

MySQL, MS SQL Server

### CD/DVD output

Rimage Catalyst

Rimage 2000i

Rimage Producer II/III/IV/V

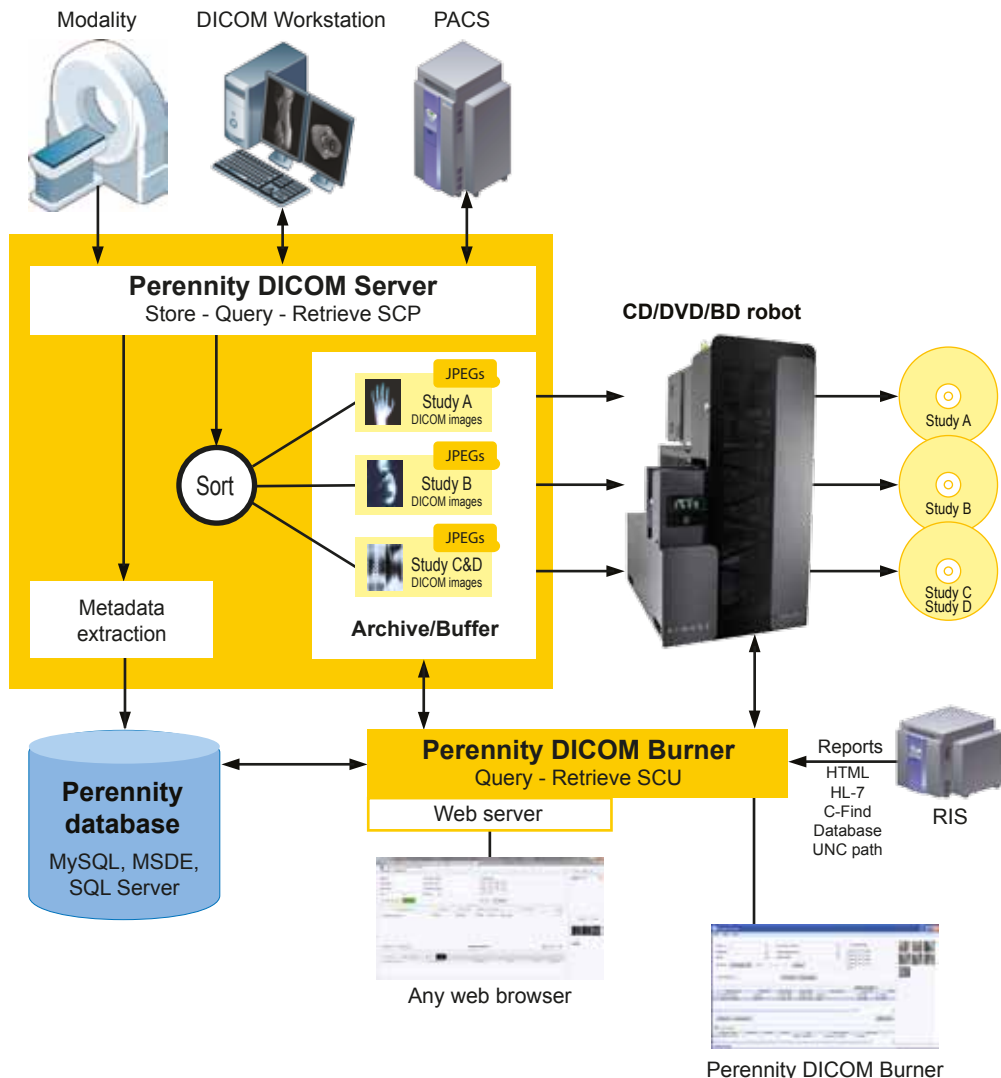
Rimage Professional

Rimage Allegro

### Storage archiving pool

Fast-LTA Silent Cube

Any RAID or NAS



Different modalities and/or the PACS send images to the Perennity DICOM Server over the local area network using the DICOM Store services, whereby the Perennity DICOM Server acts as a genuine DICOM server (SCP Store, Query/Retrieve & SCU Query/Retrieve).

You may decide to keep all images in a high capacity storage pool for archiving purposes (RAID, CAS, ...). If not, the images are temporarily stored in a buffer and will be deleted per policy (immediately or after X days). Images are automatically sorted by study and series. Perennity extracts all relevant metadata (study ID, patient name and identifier, type of modality, etc.) and stores them in its database (MySQL or SQL Server). Optionally, JPEGS images are also created.

In unattended mode, studies are automatically output to CD or DVD once all series of images belonging to a patient or a study have been

transmitted. The operator can also manually query and retrieve studies, to be put on CD/DVD, from an existing PACS.

All operations can be monitored and managed using a touch screen or from any workstation using a web browser.

Last but not least, the reports can be retrieved from the RIS and added to all discs as DICOM Structured Reports and PDF.

Multiple studies belonging to different patients can also be combined on a single disk (e.g. archiving, R&D, ...). If required, Perennity anonymizes the DICOM images to preserve patient privacy.

The CDs/DVDs are automatically recorded and printed using a CD/DVD autoloader (e.g. Rimage). Such robots can be used for both Patient CD production and off-line backup/archiving to DVD and BluRay.

Partner

**HARBTEK**  
SYSTEMS

Distributed By:

**Harb-TEK Systems**

info@harb-tek.com www.harb-tek.com



**Perennity**  
E M E A

136, Ave. Firmin Lecharlier  
1090 Brussels (Belgium)  
Tel: +32 (0)2/421.59.60  
Fax: +32 (0)2/421.59.69  
<http://www.perennitysoft.eu>  
sales@perennitysoft.eu

**Perennity**  
A M E R I C A S

3350 SW 148th Ave. Suite 110  
Miramar, FL 33027 (USA)  
Tel: +1 954-734-2836  
Fax: +1 954-874-1699  
<http://www.perennitysoft.com>  
sales@perennitysoft.com

**Perennity**  
A S I A - P A C I F I C

701 Sims Drive  
Singapore, 387383  
Phone: +65 67432325  
Fax: +65 67437032  
<http://www.perennitysoft.com>  
asiapac@perennitysoft.com

## Perennity Dicom edition levels

	Level 1A	Level 1B	Level 2	Level 3
	Patient CD	Archive	Advanced Patient CD	Advanced Patient CD
			Archive	Archive
				HL7
<b>Patient CD output</b> Dicom images are sent from a modality, PACS or workstation to be output to a Patient CD.	Yes	No	Yes	Yes
<b>Weasis Dicom viewer for Windows, Mac &amp; Linux</b> No installation is required on the local computer! *Requires JAVA.	Yes	Yes	Yes	Yes
<b>Osirix Dicom viewer for Mac</b> The Dicom viewer for Macintosh. No installation required on the local computer.	No	No	Yes	Yes
<b>Dicom Store</b> Dicom images are sent from a modality, PACS or workstation using the Dicom Store services.	Yes	Yes	Yes	Yes
<b>Keep images for archiving</b> Dicom images that have been sent to Perennity can be kept for archiving for defined number of days or for ever.	Yes	Yes	Yes	Yes
<b>Off-line archive mode</b> Dicom images stored in Perennity are output to CD/DVD automatically every day, week or month for backup or off-line archiving purpose.	Yes	No	Yes	Yes
<b>Web interface</b> Supervise, manage and control your jobs using a web browser. Works also with a touchscreen.	Yes	Yes	Yes	Yes
<b>Multilingual</b> Perennity is available in English, French, Spanish and Chinese. Other languages will be available soon (Dutch, Turkish, Portuguese, German).	Yes	Yes	Yes	Yes
<b>Dicom Structured Report</b> Report are retrieved from the RIS using a HTML link, UNC path, a database or a C-Find. Reports are stored on the CD as Dicom Structured Report and can be displayed in the Dicom viewer.	No	No	Yes	Yes
<b>Query/Retrieve from PACS</b> Dicom images can be queried and retrieved from any PACS using the Perennity Dicom Burner and output to CD.	No	No	Yes	Yes
<b>Perennity as Query/Retrieve SCP</b> Dicom images stored in Perennity can be queried and retrieved from Dicom workstations or any other Dicom tool using Dicom Query/Retrieve services.	No	Yes	Yes	Yes
<b>Bypass (no patient CD)</b> The Dicom images are stored in Perennity for archiving purpose but no patient CD is produced.	No	Yes	Yes	Yes
<b>Image forwarding</b> Dicom images are automatically forwarded from Perennity to an other SCP (Dicom workstation, PACS, ...). Some criteria based on the value of Dicom tags may apply as forwarding rules.	No	Yes	Yes	Yes
<b>Dicom Structured Report (HL7)</b> Report are retrieved from the RIS using HL7. Reports are stored on the CD as Dicom Structured Report and can be displayed in the Dicom viewer.	No	No	No	Yes