

MICROCARE PERENNITY PACS SOLUTION

MEDICAL DIGITAL IMAGING

- Systems for small clinics to largest hospitals
- Latest world's best practice technology
- Competitive pricing

www.microcare.net.au



- The very latest PACS digital technology
- Replace obsolete film systems or upgrade to world's best practice.

The Microcare Perennity PACS Solution is a CD/DVD/Blu-ray digital system – acquires, distributes, archives, views, scans, prints and manages patients' images, documents and related medical data.

The very latest technology which enables hundreds of images to be captured straight onto a CD-ROM, DVD or Blu-ray disc within minutes of the patient undergoing tests.

- PACS or modalities send images to DICOM server
- One or more studies are selected and exported to CD, DVD or Blu-ray Disc
- Patient discs are created automatically with patient-unique labels
- Studies and patient records can be archived to disc as needed
- Rapid access & retrieval

All-in-One Solution

The Microcare/Perennity PACS System is a turnkey solution to output examination data from any Dicom compliant modality or PACS to CD, DVD and Blu-ray.

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 long term on secure CDs, DVDs and Blu-rays. It is simple to retrieve studies using any Dicom workstation searching by patient, study...

Patient records

Using world class CD/DVD/Blu-ray hardware from Rimage or Primera, automates the production and allows media to be personalised with a custom label. Any information can be printed on top of the CD/DVD and Blu-ray: patient name and identifier, date and time, list of studies etc. You can also add logos and pictures to the printout, or even thumb nails of included images.

Archiving

The system is also designed as an archiving solution for Dicom images. It will act as a Store and Query/Retrieve SCP. Furthermore, an offline back-up to CD, DVD or Blu-ray can be optionally performed for long term secure archiving. The Perennity software 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

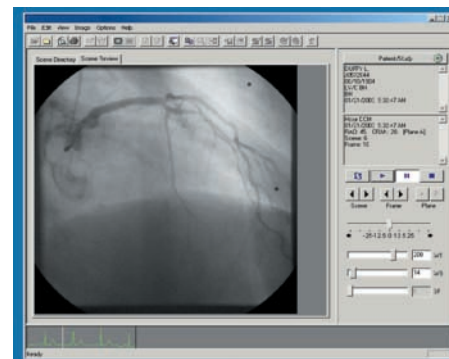
Perennity interfaces with all CD/DVD/Blu-ray hardware from Rimage and Primera. See the back page for a selection of machines recommended for the medical profession.

Intuitive use interface

The Microcare/Perennity system web-based graphical interface is extremely user-friendly. It can be hosted on the optional Perennity Dicom appliance – a touch screen with a powerful embedded PC. Otherwise, the user interface is also accessible from any web browser in your network.

Limited investment

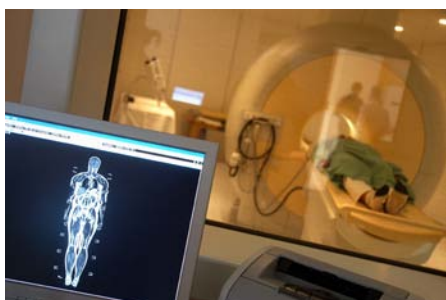
The Microcare Perennity PACS Solution is arguably the most affordable of its kind available today. It offers all the functionality – patient CD, Image Archiving & Upload – of competing products, at a fraction of the cost.



Smooth transition

Whether you are investigating replacing an obsolete film system, or wishing to upgrade an existing digital system, the Microcare Perennity system can run in parallel with your existing system to ensure a smooth transition.

Update your ageing digital system



Systems available for small clinics to the largest city hospitals

Extremely competitive pricing.
Systems start from \$8,000

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

The Microcare/Perennity PACS Solution works with almost all Dicom viewers. We offer IQ-View Lite as an option. You may add any other Dicom application/s to each CD/DVD/Blu-ray. You may also configure the Dicom viewer to autorun when inserting the disc in a CD/DVD reader.

Does the Microcare-Perennity system suit any size facility?

YES! The advantages of going digital are just important and valuable for a small facility as they are for a large city hospital.

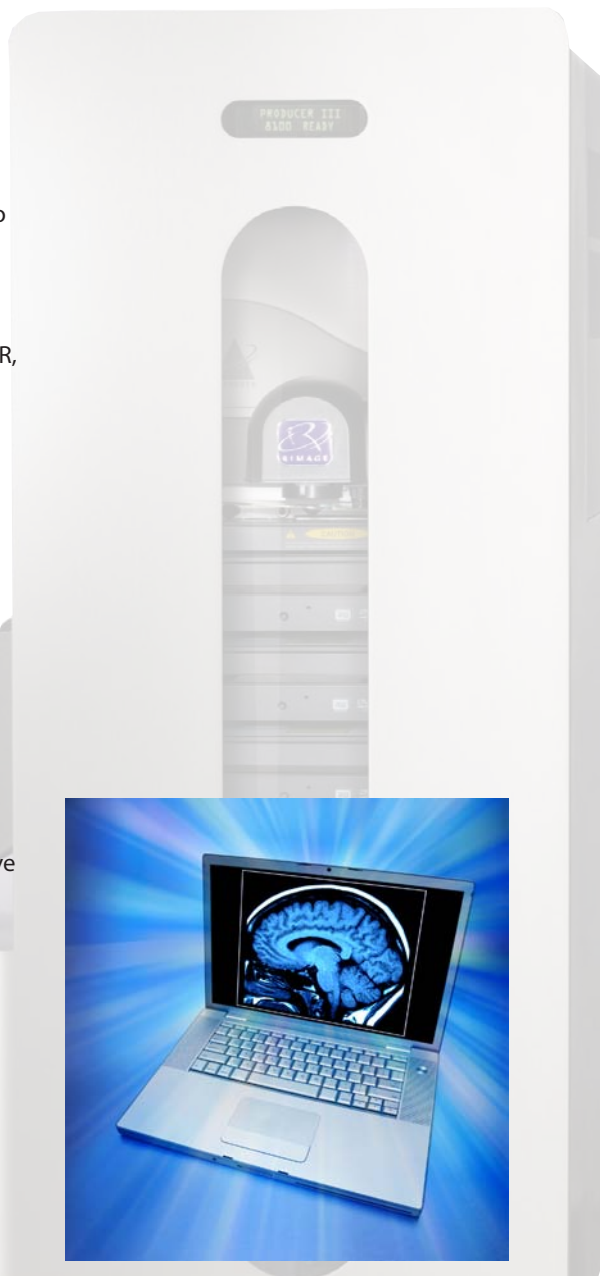
The system is manufactured to various outputs, catering for the smaller low demand facility to the commercial networked needs of a large city hospital. Microcare can design and tailor a system to suit any size facility.

Solution Benefits

- 100% secure patient records
- Automate patient records - export to personalized discs.
- Lower cost than expensive film
- Integrate seamlessly. Works with EMR, RAC, PACs and modalities.

Solution Features

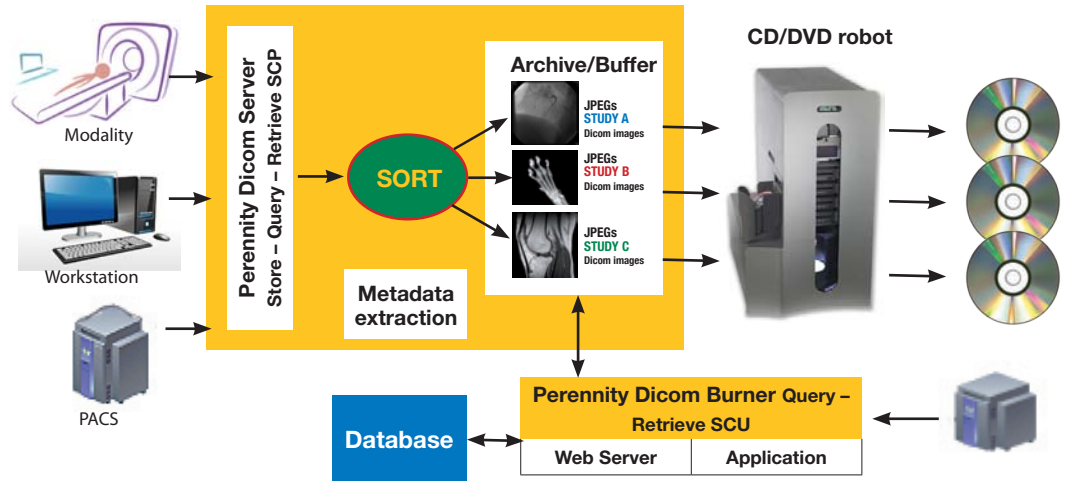
- Patient CD recording & printing
- Query/Retrieve archived studies
- Off-line archiving to DVD/BD
- Upload Dicom CDs to PACS
- Retrieve images from PACS
- Easy operation
- WEB based and touch screen intuitive user interfaces
- Advanced customisation
- Print templates & workflow
- Dicom & IHE PDI compliant
- Anonymization
- Add reports from RIS to CD



How it works

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 the touch screen based Perennity Dicom Appliance 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. Dicom Structured Reports are also supported.

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.

CD/DVD/Blu-ray Medical Archiving Hardware

The Microcare Perennity PACS Solution uses hardware from two of the world's leaders in CD/DVD publishing equipment. We will recommend the hardware to suit your facility's needs from:

SMALL CLINIC

PRIMERA BRAVO SE



- Fast, automated robotic CD/ DVD duplication along with full-colour, 4800 dpi direct-to-disc printing
- Ideal for producing either one at a time, unique discs or jobs of up to 20 discs at a time.
- Windows-based PC and Mac duplication software.
- 4800dpi resolution

MEDIUM FACILITY

PRIMERA PRO Xi



- Automatically burns & prints up to 100 CDs or DVDs at a time.
- Two high-speed DVD±R drives for volume production
- Direct-to-disc printing with 4800 dpi print resolution
- The smallest ink droplet size available – just 3 picoliters – for superb graphics, photo and text quality
- Software for both PC and Mac® burning and printing included

MEDIUM FACILITY

RIMAGE 3400



- More than 150 discs a day
- Two front-swappable recorders
- Rotating three bins – 50-disc capacity, total 150 discs
- 5 disc output bin
- Embedded control centre
- 48cm (h) x 38cm (w) x 49cm (d)

5400N model for networked disc publishing

LARGE FACILITY

RIMAGE Protege 7100



- Two front-swappable recorders
- 300-disc input capacity
- Embedded control centre
- Designed to be networked
- Supports Blu-ray
- Connect to Everest™ printers providing full-colour printing
- 64cm (h) x 41cm (w) x 63cm (d)