About E-COM Technology

E-COM Technology Limited, founded in 1997, focuses on development, manufacture, selling and support of digital Healthcare and Veterinary systems. It's a leading and professional producer in China, with products conforming to the international advanced standard. It's also the only indigenous company capable of exporting fully proprietary high-end digital medical image system to the developed countries of Europe and America, and selling its own proprietary high-end equipment products for medical imaging to the most prestigious and reputable hospitals in China.

E-COM has consummate equipment and excellent circumstance for the development, manufacture, selling and technical supporting of DR system, RF system, PACS workstation as well as veterinary operator console. It holds abundant experience in the development, production and market exploit of digital radiography device, Picture Archiving and Communication System and Radiography Information System. The products have been exporting to the markets all over the world, covering U.S.A, Italy, UK, Spain, Philippines, Korea, etc.

E-COM is providing individual solutions and helping market promotions for multi-culture partners in accordance with the objective territories. Any proposal for cooperation is welcome. You can contact us at:

E-COM Technology Limited
15-2201, NO.1, HIT ROAD TANG JIA, ZHU HAI, GD 519085 P.R. CHINA
Tel: + (86) 756-3392211
Fax: + (86) 756-3392220
Email: ecom_info@e-comtech.com

E-COM e-PACS 2000 DS
Everything for Life
Professional Idea for Integrated Applications

e-PACS 2000 DS, an integrated platform for medical image diagnosis, pertains to a degree of standardization of clinical application modularizations to allow for combinations and large variety of compatible units. It enhances the flexibility for professionals to deal with various clinical images and predigests healthcare workflow, owing to its specific optimization capability and wide medical standards compatibility.

Inherent with a PPACS (Personal PACS Server) module, e-PACS 2000 DS possesses the most state-of-the-art performance respecting to image retrieving, communication, archiving as well as optimization. It can be used as a solo post-process workstation parallel with an imaging modality or to establish a clinical cooperation network combining with RIS/HIS, imaging modalities and storage medium. Its intuitive Graphic User Interface and Window based operation system make it easy and fast to use.
Flexible use in accordance with individual environment Cases for example:

**Basic Application**
With minimum functional applications, e-PACS 2000 DS can be used as a solo workstation parallel with modalities dedicated for simultaneously image printing or archiving, including:

- Retrieving images from the linked modality
- Universal image viewing
- Exporting images to personal favorites, save as DICOM/SMB/JPEG/TIFF
- Burning CD/DVDs for offline archiving
- DICOM Print and DICOM Storage

**Cooperation Application**
Customers can employ fully functional modules to build a cooperation network from a localization scope to an enterprise scope, communicating with RIS/HIS and modalities for patient data retrieving as well as reporting, meanwhile, exporting images to film printers or CD/DVDs for archiving.

In this cooperation group, doctors and professors are freely to share the patient information with radiologists by using the web-based viewer for the purpose of tele-diagnosis.

The concerned modules involve:

- Retrieving images from the linked modalities
- Acquisition card for non-DICOM modalities
- Universal image viewing
- Professional tools for optimizations
- Exporting images to personal favorites, save as DICOM/BMP/JPEG/TIFF
- Burning CD/DVDs for offline archiving
- Web-based image viewer
- DICOM Worklist/MPRS
- DICOM Print and DICOM Storage
Universal Usage for Image Viewing

Every attempt has been made to provide professionals with the most practicable tools for viewing the images coming from a wide spectrum of imaging modalities, such as X-ray, CT, MR and US etc.

Additionally, the web-based viewer module, aiming at hospital-wide electronic image communication, allows doctors to tele-diagnose the designed patients effectively within and between departments.

The adaptive Graphic User Interface, make e-PACS 3000 DS changeful to fit various monitors with corresponding resolutions, from common used color LCD to high-resolution medical image grayscale monitor.

X-ray Image viewing
1) Image display area
2) Control Region
3) Status Bar
4) Special Image Processing Menu

CT images viewing

MR images viewing
Specific Modules for Image Optimization

Symphony™

Symphony™ software, a new image processing technology, is optional for DROC or Diagnosis Workstation products.

It is an advanced processing focus on Digital Radiography which adopted complicated algorithm applying the detail enhancement, dynamic compress, noise suppress in the same time.

Key Features

- Auto optimizing (can override manually)
- Contrast equalization help to display the image with complex structure nicely
- Provided more information for diagnosis, such as better view for soft tissue and bone trabecula structure
- High image quality with rich information and natural display, eliminating the dark edges which always exist result form normal image process algorithm
- Parameter sets can be customized as personalized parameter
- High process speed without requirement of extra hardware support completes process in a few seconds

Before

After

Image Stitching

It allows user to "stitch multiple images" together to generate one panoramic image, option for DROC or Diagnosis Workstation products.

Key Features

- The number of overlapping images can be two or more.
- The order of these input images is adjusted automatically to guarantee the anatomy structures represented by them are in the right order.
- For two adjacent images, the search of their corresponding region is carried out automatically, also can be performed manually.
- For overlapping areas in adjacent images, image intensities are blended to create a seamless boundary between the images.
- The panoramic image is rendered an optimized displaying curve as default. This curve can be adjusted manually.
- The registration can also be done by manually translating the images.
Multi-Planar Reformatting (MPR) is a technique that passes a plane through a data set, so that the user can view the volume from a different direction than that of the original images. In effect, you can view the image data from different viewpoints without having to rescan the patient.
Specific Modules for Image Archiving and Printing

Key Features

- Import images from viewer to composer
  - By drag & drop
  - By Function key (F1, F2, F3)
  - By selection
- Change layout format
- Sub layout
- Add / delete film box (page)
- Copy / cut / paste image box between film box
- Window leveling / Pan / Zoom / Rotate / Flip / Invert
- Current image / Selected images
- Print to DICOM laser camera / Print to Windows