

## Cardio-Angio Acquisition PLUS Diagnosis Station

Vers. 302.04.07



Equipped with all features of VEPROs Diagnosis Station this system can also acquire images and films simultaneously in the background from DICOM and NON-DICOM modalities. The OUTPUT is always a full DICOM compatible file. With DICOM Worklist and DICOM MPPS support a seamless integration in a Enterprise PACS network is guaranteed.

This unit can also be used as a "Stand alone" system or as the base for a Mini-PACS solution connected with diagnosis stations.

### Digital or Video Acquisition

- High-End medical A/D converter allow superiority data acquisition in grey (-12 Bit), color (-24 Bit) – resolutions up to 2048 x 2048 pixel – Bi-plane option allows synchronized acquisition from two cathlabs. Additionally US/IVUS connection as input source
- Digital "Camera Link" and "IEEE 1394" Output support
- Images or films with up to 60 fps can be recorded
- Real-Time lossless compression (ca. 3:1) just after acquisition reduces network traffic and transmission time to half

### Archive Management

- Unlimited Archives, trays and presentation worklists configurable – ONLINE up to 200 GB per Station
- Archives also configurable as FIFO (first in first out) for temporarily storage or with long term migration on "write once" media, like CD, DVD
- Individual unrestricted definition of different keywords
- CD-/DVD-Robot and Jukebox support

### Query Retrieval

- Search in multiple archives, trays or presentation worklists with up to 25 different keywords
- Immediate query reply also for searches with several keywords or predefined search filters
- HIS, RIS, CIS provided search profiles allow direct link of both systems and retrieval of images etc. direct from the sub-system (master/slave mode)
- Icon (Thumbnail picture) preview together with complete study description
- Different user rights can be granted for archive access – with password, fingerprint or smart card identification
- Access rights synchronized with rights of HIS/RIS/CIS
- Auto-Log Off if system is not used in a definable time period

### Display

- Support of Landscape or Portrait - Color and B/W Monitors with resolutions up to 2560 x 2048 pixel
- Multi Monitor support with up to 8 Monitors simultaneously – with or without separate control monitor
- Displays all Images, Films, Text and Sound information of each modality from radiology, cardiology, endoscopy, microscopy etc.
- Multiple independent window display in definable frames

### Processing

A powerful set of tools for image and film processing is available to provide more information of the high dynamic grey or color images. Processing parameters are stored in addition to the raw data, so that switches between original image and processed image can be made easily. Snapshots of processed images can be stored additionally in same study or series.

- Zoom, Contrast, Brightness, Auto Contrast, Auto ROI Contrast
- Window-Leveling – 16 Bit
- Measurement: Hounsfield, Distance, Angles, Circumferences, Areas, Calibration, Annotation: Text, Arrows
- Cine-Loop – 1-100 fps display speed, Rotation, Mirroring, Color conversion (NUC), Look-Up Tables
- Optional:*
- LVA – Left Ventricular Analysis
- QCA – Quantitative Corona Analysis
- DSA – Digital Subtraction Angiography
- MIP – Maximum Intensity Projection
- MPR – Multi Planar Reconstruction, 3D Surface rendering

### Presentation Worklist

- Support of multiple presentation worklists for single users or presentation groups
- Hanging Protocols automated or manually
- Selection of presentation monitor or projector
- Supports up to 4 Video Displays or projectors

### Import/Export

- All direct import of graphical, text or sound data in various formats converted to full DICOM data
- Export of archived DICOM data in each file format like: BMP, JPG, GIF, AVI, PCX, PNG etc. on DISK, CD or DVD

### OUTPUT Print/CD

- DICOM & WINDOWS Printer support - configurable print layout and frames
- DICOM CD with single or multiple patient studies with license free DICOM Viewer on each CD

### Telecommunication

- Encrypted transmission of images, films and medical reports by using: Internet, E-Mail, Modem, ISDN, DSL, LAN etc.
- Free of charge for receiver: Telecommunication and DICOM Viewing software for easy creation of communication network

### DICOM Support

- DICOM WORKLIST (SCU)
- DICOM STORAGE (SCP)
- Optional:*
- DICOM STORAGE (SCU)
- DICOM PRINT (SCU)
- DICOM QUERY/RETRIEVE (SCP)
- DICOM STORAGE COMMITMENT (SCP)
- DICOM MPPS (SCP)

### Hardware/Operating System

- High End PC 3,2 GHz, 17" TFT Color Display (Standard) (up to 22" TFT Monitors B/W or Color in several resolutions); Dual Network interface 10, 100, 1000 Mbit; Ultra-Silent Case, lockable
- WINDOWS XP Professional