Vision Tools CathView
Technical Specifications

SOFTWARE

Patients
Detailed Patient Database contains patient information [name, id , phone, address, age, sex, height, weight, ...], exam info. [exam, study, date, time, doctor, referral, ...] machine info. and patient data.
Patient appointments reservation.
One click sort and fast find search and query routines.
Archive patients on non-Dicom media [HDD/CD/DVD].
Import patients from any previously stored media

Images
Images display on full screen with customized layout.
Image Annotations [text, pre stored text and drawings]
Image Processing [WW/WL, Brightness, Contract, Invert, Rotate, Zoom, Edge, Emboss, Sharpen, Smooth, Add, Subtract]
Measurements [distance, area, calibration of non-dicom images]
Measurements of QCA and QLVA (optional)
Cropping, collimation and Resize.

Cine Loops
Automatic Cine loop acquisition directly from the machine
Cine Loops Playback , pause, forward and rewind , zoom and pan from the remote control.
Cine loop frame snapping and frame measurement.
Digital Cine loop Patient ID creation.
DSA with pre-selection of image mask.

Voice Notes
Voice recording during and after examination.

Printing
Superior quality image printing on papers or medical films.
Multi image format from 1 image/page to 24 image/page
Printing in A4 or A3, portrait and landscape.
Printing multiple copies,
Direct image printing from the remote control.
Automatic Image processing before printing.

Reports [Option]
Automatic reporting with simple mouse clicks and choices for pre/post procedure.
Complete Reports for coronary catheterization and interventions.
Guidance through procedure and post – procedure notes.
Coronary Anatomy Editor.
Automatic Reporting Scripts pre-stored in the system.
Wall motion Diagram for Echo Reporting.

Knowledge Base
Detailed examination knowledge base.

Users
multi-user / multi-lingual interface.
Each user has its own profile and rights.

Remote Control
Infrared remote control for doing almost all the software functions remotely.
Temporary new patient entry
Acquisition [image, cine, voice]
Image printing [page format, printer selection, printing]
Image processing.
Shutdown the system.

DICOM CD-R
Cine loop selection
Creation of dicomdir file
Dropping black frames to reduce the size.
Converting DICOM Cine loops to 30 f/s, 15 f/s or 7 f/s
Including DICOM Viewer automatically with the CD-R
Automatic auto run CD-R [the Viewer automatically opens when the CD is inserted in any computer]

DICOM Network
DICOM 3.0 File Export / Import.
DICOM 3.0 Store SCU for sending Images and Cine loops to another PACS or DICOM Server.
DICOM 3.0 Print SCU for printing over DICOM laser imagers.
DICOM 3.0 MWL/MPPS SCU [Option], for getting DICOM worklist for integration with RIS/PACS.

DICOM Viewer
MILLENSYS DICOM Viewer is Included with software and the DICOM CD-R
Cine playback and processing [zooming, adjustments, annotations, image save, image printing and import/export]

Interface
Auto capture port for capturing cine loops automatically from the machine [using a TTL trigger signal from the cathlab machine].
Remote Control Serial port interfaces the remote control.
Ethernet interface for sharing patient data through LAN or WAN.

OS

Recommended Microsoft Windows 7, DirectX 10 or above.

HARDWARE

Minimum System Configuration
Processor : Intel Core i3 or above - 2.33 GHz or higher
Memory : 4GB
Storage : 160 GB
Display : Any
CD-RW : 40x or higher
Monitor #1 /#2 : 19" none interlaced.
LAN : 1 Gbps Ethernet.
I/O : RS232C serial port for remote control operation

Acquisition Board
Standard/non-standard monochrome video input.
±1.0 ns pixel jitter
8 or 10 bits gray scale.
512x512 - 1024x1024 cine matrix size.
12 bit gain, 12 bit black level, and phase adjustments

Communication
IEEE 1284 Parallel Interface
RS232C Serial interface

Remote Control
Infrared wireless sender and receiver with RS232C Serial