

### 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]  
 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]

Simple and efficient word processor tool to write patient reports using pre stored report templates or new one.  
 Automatic reporting tool to create report based on choices  
 keyboard shortcuts in the reporting tool to easy report writing

#### 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 x-ray 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 Core2 or above - 2.33 GHz or higher  
 Memory : 3GB  
 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.  
 $\pm 1.0$  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 Interface supports approx. 10m infrared range.