

# Planmed Clarity™ Acquisition Workstation (AWS)

## Key Facts

- **DBT and Digital Mammography AWS for Planmed Clarity™ 3D and Planmed Clarity™ 2D**
- **Clarity Manager image acquisition and communication software**
- **Tailored image post processing tools to optimize image looks for different needs**
- **Optimized for high-throughput screening, diagnostic mammography and tomosynthesis**
- **Optional high-resolution 3 megapixel display**
- **Software tools for system maintenance, quality control, and tech support**

## AWS Computer

- Clarity S and 2D 8 GB RAM, Clarity 3D: AWS 64 GB RAM
- Dual, 1 TB hard drives in RAID 1, mirrored for Clarity S and Clarity 2D
- 1 TB SSD for Clarity 3D
- DVD recorder
- Keyboard and mouse with integrated fingerprint reader for easy login
- Microsoft Windows 10 operating system
- 2x10/100/1000 Base T Ethernet
- Isolation transformer

## Monitor

- One high-resolution DICOM 2 megapixel 23.8" color flat-panel display
- Optional 3 megapixel or 5 megapixel display

## Clarity Manager Software

- Versatile, image acquisition and communication software for Planmed Clarity 3D and 2D
- Intuitive user interface
- Dedicated software solution for high throughput screening and diagnostic mammography
- Optional integrated Planmed ClarityGuide software module
- Integrated quality control
- Demo support
- Languages supported: English, German, Spanish, French and Swedish
- Clarity Viewer with exported images

## Procedure & Patient Information Input

- Patient information input via keyboard or DICOM modality worklist (optional)
- Data fields include:
  - Patient name
  - Patient ID, gender, date of birth, age, title
  - Procedure start time and scheduled station
  - Referring physician, reading physician, operator
  - Study description
  - Comments
  - Protocol and performed procedure step description (when MPPS is activated)
- Application generates date and number of images
- Pick lists can be used for ease of input

## Automatic Image Optimization and Display

- **Tailored image post processing tools to optimize image looks for different needs**
- Sophisticated image analysis and advanced optimization
- Unique processing parameters are automatically applied to images
- Noise reduction
- Image enhancement filters
- Automatic hanging protocols
- Reject image function with reject analysis interface for quality control

## Software Tools

### General Viewing

- Maximize single image
- Layout controls
- Thumbnail navigation bar
- Change from contact view imaging to magnification or tomosynthesis within a study
- Prior images view

### Image Manipulation and Processing

- Includes zoom, pan, invert, orientation and magnify
- Automatic window level
- Interactive and pre-set window level
- Pan, Zoom, Scroll, Window all on the mouse buttons

### Advanced Image Manipulation

- Measurements
- Text / number annotation

### Temporary Data Storage & Management

- Local database storage
- Automatic clean-up
- Study list filter and sorting tools

### Communications & Data Input

- Configurable DICOM storage of "For presentation" and/or "For processing" images including 2D and 3D annotations (GSPS, 'burn-in', 'none' for 2D and 'burn-in' for 3D)
- DICOM Query/retrieve and Storage commitment
- Configuration of DICOM devices by authorized user via configuration menu, including port and DICOM AET (Applications Entity Title)
- Images can be manually or automatically forwarded to a preset DICOM destination

### **System Maintenance**

- Status information display
- System performance logging
- Operating and ambient temperature recording
- Calibration and general maintenance tools

### **Interactive Quality Control**

- Interactive software tools for DBT and Digital Mammography quality control
- Independent test image acquisition and archiving
- The system indicates if some of the tests have not been regularly performed or if the results are outside the limits
- Long-term follow-up is included with graphical results display
- The quality assurance protocol can be easily customized according to local requirements

### **Technical Support Solutions**

- Full Field Flex-AEC calibration tool for signal measurement from the calibration phantom image
- Log collection utility can be used to send information to technical support
- Remote system diagnostics possibility

### *Optional Features*

#### **Planned ClarityGuide**

- *See integrated Planned ClarityGuide module specifications*

#### **Acquisition Station**

- *See Planned Wave™ specifications*

#### **Display Calibration Sensor**

- *External sensor for display calibration*

#### **Uninterruptible Power Supply**

- *In the event of power failure, UPS ensures that minimal data is lost*

#### **DICOM Print Module**

- *DICOM print*

#### **DICOM Media Export with Viewer Module**

- *Enables individual or multiple studies to be burned to a CD or DVD*
- *Can be read from any DICOM reader*
- *Viewer can be burned to the CD/DVD*
- *User interface enables sorting of the column headers for quick patient listings*
- *Search capabilities*

#### **DICOM Modality Worklist (MWL)**

- *Query and manage patient demographics via DICOM MWL interface*

#### **DICOM Modality Performed Procedure Step (MPPS)**

- *MPPS is used for sending procedure information to HIS/RIS*

#### **DICOM Radiation Structured Dose Report (RDSR)**

- *RDSR is used for recording and storing dose data*