visbion

Image Storage and Display Solutions for Departments and Large Clinics

The Visbion Image Archive Mid-Range is an image archive with a built-in web server, designed specifically for departmental or hospital level installations. Image Archive Mid-Range provides secure storage for all your images in one place, and allows review of high quality images all around the hospital using a standard web browser. With the right security and internet connection in place, images can even be reviewed from outside. The web viewing software incorporates all the tools expected from a high end workstation; features include a full range of image review tools, side-by-side image comparison, extensive measurement tools and burning of CDs or DVDs.

 A number of options are available for the Visbion Image Archive. Visbion Image Viewer can be added for advanced workflow such us importing external CDs. A variety of screens designed specifically for medical image review can be included to provide a typical full workstation solution and the Visbion Image Cube allows encrypted and compressed data transmission from remote sites.

Overview of Image Archive Mid-Range

- Storage of 250,000 typical X-ray images
- Connection for up to 5 imaging devices
- Up to 15 concurrent users viewing images, unlimited registered users
- Raid 5 hard disks for built-in redundancy

Image Archive Mid-Range Hardware Details

- Based on industry standard hardware with worldwide warranty and support
- Storage for 250,000 typical X-ray images
- Connectivity for up to 5 imaging devices including CR, DR, CT, MRI and ultrasound
- Built-in high quality Dicom Web Server
- Connection for external USB backup hard disk
- Visbion Remote Monitoring and Remote Login support*
- Optional online backup to Visbion Image World

Image Archive Mid-Range Software Features

General

- Encrypted and compressed image transfer for security and speed
- Importing of photographs and other documents into a single patient centric record
- Online remote software updates
- Multiple monitor support
- Online help with tooltip pop-ups for every button
- Full colour support e.g. for ultrasound images
- Full animation support for cine images, e.g. ultrasound movies
- Copy displayed image to clipboard for inclusion in Word, PowerPoint etc

Image display options

- Multiple series layout formats for side by side viewing of image. Formats available are 1x1, 2x1, 2x2, 3x1, 3x2, and any configuration up to 8x8
- Multiple image layout formats, e.g. 1x1, 2x1, 2x2, 3x1, 3x2, and any configuration up to 8x8
- Automatic user-definable hanging protocols, including relevant prior study retrieval
- Image rotation (90, 180, 270 deg), vertical flip, horizontal mirror
- Greyscale and colour negative\invert
- Window\level and zoom restore buttons
- User-definable window\level presets

Standard mouse button tools:

- Zoom, pan, magnifying glass
- Picker tool, e.g. for Hounsfield units or Standard Uptake Values
- Window\level or density\contrast adjustment, including colour images
- Each of the tools can be pre-configured to the left, middle and right buttons.
- The middle wheel button can also be used to scroll through a stack of images, e.g. in MRI or CT exams

Overlay tools

- Text annotations, with configurable font and colour
- User definable preset text annotations
- Lines and arrows with length measurement, configurable thickness and colour
- Various region of interest (ROI) measurement tools
- Various angles and angled line measurements
- Linegraph tool
- All regions of interest (ROIs) automatically calculate area, volume (where applicable), perimeter, mean value and standard deviation. Measurements can be displayed as part of the overlay or as a tooltip
- Annotations, measurements, rulers and orientation markers can be individually hidden or displayed

Advanced display tools and configurations

- Series locking by slice position, manual offset position, image number or frametime
- Multi-planar reformatting functionality, including angled planes
- Curved multi-planar reformatting
- Maximum Intensity Projection calculation, including real-time interactive tools
- Individual user log-on with roaming user preferences
- Configurable permissions to allow a user or group of users to only see specific patients

Upgrade options

- Online backup to Visbion Image World
- Image Viewer workstation software for advanced review and reporting
- Range of Dicom calibrated radiology review screens for web viewing on existing PCs

* Subject to network connectivity

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