



Image Storage and Display Solutions for the Enterprise

The Visbion Image Archive Enterprise is a modular image archive with a built-in electronic patient record and a diagnostic web-based image review tool, designed specifically for hospitals and multi-site installations. Image Archive Enterprise 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 stored and reviewed from external sites. The web viewing software incorporates all the tools expected from a high end workstation; features include a full range of image review tools, historical image comparison, hanging protocols, full 3D and cine functionality, 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 and can be desktop integrated with your existing systems. 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. Image Capture and Image Importer allow non-Dicom devices such as ophthalmic cameras, endoscopy units or film digitisers to be connected into the system.

Overview of Image Archive Enterprise

- Modular system with a Base Node, and add-on nodes for expansion
- Fully integrated electronic patient record and PACS system
- Additional nodes can be added for extra storage, Dicom connections, or concurrent web users
- Professional services to customise workflow, form templates and HL7 integration
- Base system includes:-
 - storage of 350,000 typical X-ray images
 - connection for up to 8 imaging devices
 - 25 concurrent web users
- Range of image storage options including DAS, NAS or SAN

Visbion Image Archive Enterprise



Image Archive Enterprise Hardware Details

- Based on industry standard hardware with worldwide warranty and support
- Rackmount units with enterprise level hardware specification
- Modular approach for scalability, redundancy and future expansion
- Built-in diagnostic quality Dicom Web Server
- Range of storage options including DAS, NAS and SAN
- Visbion Remote Monitoring and Remote Login support*

Image Archive Enterprise 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

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

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

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

- Image Viewer workstation software for advanced review and reporting
- Image Capture for integration of ophthalmology and medical illustration devices
- Image Importer for capturing images from non-Dicom devices such as film digitisers or video endoscopes
- Range of Dicom calibrated radiology review screens for web viewing on existing PCs

* Subject to network connectivity

The logo for Visbion, featuring a white curved line above the word "visbion" in a lowercase, sans-serif font.

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