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Online Hosted PACS Solutions

Image World is Visbion's online hosted version of its successful integrated PACS solution. The system is designed to be scalable from a small practice or clinic up to large enterprise level installations. Image World provides secure storage for all types of image in one place, including radiology, ophthalmology, cardiology, and many more. The system allows review of high quality images using a standard web browser, from anywhere with the appropriate network and security mechanisms in place.

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.

The data on the Visbion Image World system is stored in dual redundant data centres for security and high availability, and the system is fully compliant with Dicom 3.0 and HL7 data standards for straightforward integration into an existing infrastructure. In addition, Image World can make use of a wide range of other Visbion solution components, such as the Image Cube for encrypted and compressed data transmission, Image Viewer for advanced or specialist workflow, and Image Print for non-Dicom device integration.

Overview of Image World

- Online hosted PACS system with simple pay-per-month model
- Full range of web based review and measurement tools
- Integrated patient record system with workflow capability
- Supports all types of images including radiology, cardiology, ophthalmology and many more
- Dual data centres for redundancy and high availability

Visbion Image World

Image World 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 pre-sets

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 pre-set 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 frame time
- Multi-planar re-formatting 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

* Subject to network connectivity

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