

CoActiv EXAM-PACS® & EXAM-RIS™ Advantages and Features

Versatility and Performance at a Fraction of the Cost of other systems:

- Easy to use
- Low cost of acquisition, installation, maintenance & support.
- Fast & easy financing... *or*... pay on a "Per-Exam" basis.
- Web-Based, Software Based with non-proprietary hardware requirements.
- Scalable from small single sites to multi-site enterprise installations.
- Implement as a full solution, or install CoActiv's PACS components incrementally to an existing PACS or directly to DICOM modalities.
- Fast, easy and non-intrusive installation, setup & training.
- Seamless and inexpensive, fully integrated PACS/ RIS / Dictation solution.
- *On-Site & Off-Site, Always On-Line* exam archive system where exams are saved four times in a Quad-Redundant™ HIPAA Conforming architecture, CoActiv EXAM-VAULT® Archive Service. 100% Up-Time SLA.
- All archived exams *Always-On-Line* and instantly retrievable.
- EXAM-VAULT Archive validated for GE and Hologic Digital Mammography exam acquisition, viewing, remote distribution, archiving & CD burning.
- EXAM-VAULT Archive validated for Philips Xcelera Digital Echo-Cardiology exam acquisition, viewing, remote distribution, archiving & CD burning.
- Automatically transmit exams securely and instantly to referring physicians, in a background mode using our patent-pending referring physician system - CoActiv EXAM-SENDER®.
- Create study CDs viewable on any Windows PC to include Reports, Voice Clips, Scans and more with the industry's best & most marketing-oriented CD burning system - CoActiv EXAM-FILER®.
- Customize the functionality of our PACS-Human interface, CoActiv EXAM-CONSOLE™, for improved workflow and increase productivity.
- Fast and intuitive viewer resulting in superior diagnostic viewing capabilities with CoActiv EXAM-VIEWER™. FDA Approved for primary digital mammography reads on the PACS workstation.
- Multiple optimized exam download options depending on user's location; local or remote.

Speed and Functionality with CoActiv EXAM-Console

EXAM-Console is the primary user interface for EXAM-PACS with the following functionality:

- *Instant Customizable Searches*, based on *Date* or *Date Range*, *Patient Name*, *MRN*, *Accession #*, *Modality(s)*, *Exam Description*, *Reading Doctor*, *Referring Physician*, *Sex*, *Age*, *Age Range*, *Exam Origination Site*, *Archive Server Location*, or *any Combination* of the above.
- Unlimited customizable exam Worklist and Search filtering by user. (from all sites!)
- Instantly list & retrieve all *Prior Exams*, with auto-loading of most recent relevant prior. (from all sites)
- Simple and easy to understand visual queues indicating if an exam has one or more priors, attached files, notes, voice notes, reports, Read status and exam priority
- One-Button to launch *PowerScribe* (or other) dictation system.
- One-Button to *Close*, *Mark-Read*, *Print Summary Series*, *Bring-Up Next Exam*.
- *Quick View* an exam without adding it to your WorkList.
- Add exam to your, or another's *Worklist* and *automatically* send it to a referring physician and others.
- *Automatic* download of new exam(s) added to Worklist.
- Ability to easily add an unlimited amount of 'Notes' and/or 'Voice Notes' to an exam.
- Ability to easily mark an exam "STAT"
- Optionally display a *pop-up notification* when a new exam has been received.
- Most features may be personalized, enabled or disabled based on user account permissions within the PACS.
- Includes built-in scanning capabilities providing automatic, multi-sheet, single & double sided document acquisition and management. (requires appropriate TWAIN compliant scanner)
- Attach *any* type of file(s) to an exam (i.e. Scanned documents, reports, prescriptions, pre-certifications, saved email, voice clips, video clips, etc.).
- View detailed *history* of exam. (acquisition, read, view, Mods added, etc.)
- Easily determine if exam has been *modified* since added to Worklist and quickly see what type of change has occurred (i.e. file added to exam, exam marked read, etc.)
- *Print* exam to any attached DICOM film printer, with selectable print layouts.
- *Print* exam to plain or photo paper on any local or networked printer, with selectable print layouts.
- *Store* exam in "Saved Exams" folder for easy future access.

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- Easily *anonymize* exam(s) for teaching, training or demonstration purposes.
- Easily *burn EXAM-CD™* for patient or referring physician. EXAM-CD includes an Auto-Run EXAM-Viewer, customized with imaging facility's logo and website link. CDs can be used on any Windows based PC with *no installation required*.
- Ability to work with *multiple exams* from the same patient or from different patients simultaneously.

Diagnostic Viewing Advantages with CoActiv EXAM-Viewer

EXAM-Viewer is the fast and intuitive DICOM image viewer with the following capabilities:

- Use Convenient Thumbnails or Series Listings, or both, to select visible series windows.
- View *unlimited* number of exams simultaneously (limited only by workstation resources).
- View *multiple series* simultaneously in a variety of screen layouts.
- Scroll/Slice instant "*Jump*" feature – jumps to mid-series or user entered image number.
- *Manually* enter window/level parameters or use *unlimited custom* w/l presets by modality and user.
- Multiple zoom options including *6 preset zoom levels* and ability to temporarily zoom a series to full-screen then return to multiple series layout with a *single click*. Includes One-Button *Zoom-to-Actual-Life-Size*.
- *Pan, Flip, Rotate, Invert* images and then return to original state with one click to *Reset Image*.
- Easily *auto-apply* image display parameters (zoom,win/lvl,etc.) to all images in a series or all series.
- *Image enhancement* capabilities (i.e. *smoothing, interpolation, edge enhancement, etc.*)
- *Multiple / Customizable image-overlay options*, by Modality, including demographics, anatomical side markers, rulers, etc, each of which may be individually enabled/disabled.
- *Automatically Display any Field contained in DICOM Header* of Image on the *Image Display Overlay*, customizable by *Modality, Exam Type, Overlay Position*, and by *Diagnostic Workstation*.
- *Instantly view* all information contained in the DICOM header of each image with a single keystroke.
- Tools allowing *multiple measurements* on a single image (multiple *color option* for color monitors).
- *Region of Interest* tools (ellipse, rectangle, freehand, etc.) allowing multiple ROIs on a single image. (multiple *color options* for color monitors).
- *Annotation* tools (multiple text labels, arrow, etc.).
- *Select label text font*, size, attributes and colors (on color displays).
- Semi-automatic vertebrae & space labeling for spine exams, with auto-referencing on all views.
- Permits *technologist to pre-W/L*, annotate, etc. to prepare images for radiologist.
- Create a "*Summary Series*", making it a permanent part of the exam, with unlimited *key images*.
- Multiple, *configurable localizer options* including ability to show reference lines across *all series simultaneously* as well as *auto pop-up localizer*.
- *Automatic localizer* which automatically determines which image(s) to use for pop-up localizer(s).
- *Synchronized scrolling* of images across series and even across multiple exams.
- Multi-Frame Image Viewing Slider-Bar and image masking control.
- Speed control *Cine* function for *multi-frame* or *multi-image animation*, with *loop* or *bounce* option.
- Custom, *user-configurable multiple monitor support*.
- Instantly re-arrange series layouts and positions.
- *Hanging Protocols*, user-customizable by modality, exam type, series, description, etc.
- One-Button to Hide thumbnails and series listings to *maximize viewing area*.
- Copy images to Clipboard or *export images to BMP, JPG, AVI* files for use in *training or demo*.
- Easily *print series to any Windows or DICOM printer(s)* with selectable print layouts.
- Most features are available via the *mouse, and* easy to remember *keyboard shortcuts*.
- Flag Image feature – tags images for advanced integration or print functions.
- Multiple, configurable, Pop-Up & Series Localizers and Intersect capabilities.
- One-Button Color 3D/MPR bi-directional interface feature. (**EXAM-3D™**, Voxar, Vitrea, etc)
- One-Button Orthopedic Templating bi-directional interface feature. (OrthoView)
- One-Button PET-CT Fusion bi-directional interface feature. (Medimage)
- One-Button to Assess Cardiac Function and Profusion & 3D Nuclear Medicine (MedImage).

Complete Full-Featured Web-Based Radiology Information System using CoActiv EXAM-RIS™

- Includes Modality Worklist, HIS-RIS-PACS-Billing Integration, Dictation Over the Web and Transcription
- Scheduling (Single & Multi-Site), Patient Charts (EMR) Scanning, Exam Report Templates, Auto Exam Distribution via FAX, Email & Print, Billing Charge Capture & Submission, Custom Reports, etc, etc.
- **(See Details of the NEW EXAM-Essentials PACS on the following pages.)**

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CoActiv EXAM-ESSENTIALS™

EXAM-Essentials™ is ideal for growing Orthopedic, Chiropractic, or Multi-Physician Practices ... any type of medical practice that has basic needs to quickly, easily and affordably acquire, view and manage any type of medical images.

CoActiv EXAM-Essentials is the ideal complete, yet *affordable* solution for the facility that requires PACS functionality that can be implemented instantly within any IT infrastructure requiring no special or expensive Internet connectivity. **EXAM-Essentials** is a complete solution, including all required hardware and software... no hidden charges or surprises!

And with **CoActiv EXAM-Essentials** you always have a clear and easy upgrade path to the complete **CoActiv EXAM-PACS®** Suite of products that provide complete medical image management solutions for the acquisition, viewing, distribution and HIPAA compliant archiving for 100% of even the largest and most diversified facilities. **CoActiv EXAM-PACS** includes the ability to efficiently handle all medical images and associated DICOM data, including information from Radiology, Cardiology, Orthopedics, Surgery, Oncology and Radiation Therapy.

All CoActiv PACS Versions are FDA Listed, 100% HIPAA Compliant and IT-Smart!

Includes:

EXAM-Essentials Server/Workstation Hardware:

Dell Workstation/Server
Duo Core Pentium Processor
2-GB RAM
Large Internal RAID Storage
CD/DVD Reader/Burner
Dell 20" Wide LCD Flat Panel Display
Keyboard/Mouse
10/100/1000 NIC

EXAM-Essentials Software which includes:

EXAM-Server™ Basic which will simultaneously acquire and store exams from **TWO** DICOM compliant modalities. Also allows **Sending** to off-site locations for remote over-reads or remote off-site archiving (available via *Optional CoActiv EXAM-VAULT*).

EXAM-Console™ Basic which includes **Exam Worklist** and **Search Windows**, **Exam-Print** to any attached DICOM film printer or Windows laser/inkjet printer with many flexible printing options.

EXAM-Filer® Basic which provides for the local burning of a **CD/DVD's** containing patient exams **complete with included full-featured exam viewing software**.

EXAM-Viewer™ Basic which provides the ability to **review** and **mark an exam as Read** on the **Combined Server/Workstation**. Includes **all standard DICOM Viewer capabilities** including:

- **View *unlimited* number of exams simultaneously** (limited only by PC resources).
- **View *multiple series* simultaneously** in a variety of screen layouts.
- **Easily scroll through images** using *keyboard* or *mouse* controls.
- **Option to *continuously wrap* when scrolling** (i.e. automatically return to first image after scrolling to last image).

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EXAM-Viewer Basic (continued)

- **Easily adjust window/level using mouse** (*standard and fine mode* available).
- **Unlimited custom window/level presets** by modality and user.
- **Manually enter window/level parameters** using direct keyboard input.
- **Unlimited custom window/level presets** by modality and user.
- **Manually enter window/level parameters** using direct keyboard input.
- **Multiple zoom options** including *6 preset zoom levels* and ability to temporarily zoom a series to full-screen then return to multiple series layout with a *single click*.
- **One Button Zoom to Actual Size** – with monitor calibration feature.
- **Pan image.**
- **Invert image.**
- **Flip image** (horizontal/vertical) or **rotate image** (clockwise/counterclockwise).
- **One button Reset Image** to original state.
- **Easily auto-apply image display parameters** (zoom factor, win/lvl, flip state, etc.) to all images in a series or to all series.
- **Image enhancement capabilities** (i.e. *interpolation, edge enhancement, etc.*)
- **Multiple / Customizable image-overlay options**, by Modality, including demographics, anatomical side markers, rulers, etc, each of which may be individually enabled/disabled.
- **Easy ability to Automatically Display any Field contained in the DICOM Header of an Image on the Image Display Overlay**, customizable by *Modality, Exam Type, Overlay Position*, and by *Diagnostic Workstation*.
- **Instantly view all information contained in the DICOM header** of each image with a single keystroke.
- **Measurement tools allowing multiple measurements** on a single image (multiple *color option* for color monitors).
- **Region of Interest tools** (ellipse, rectangle, freehand, etc.) allowing multiple ROIs on a single image. (multiple *color options* for color monitors).
- **Annotation tools** (multiple text labels, arrow, etc.).
- **Select label text font**, size, attributes and colors (on color displays).
- **Save multiple MOD files** to keep W/L, annotations, measurements, etc.
- **Permits technologist to pre-W/L**, annotate, etc. to prepare images for radiologist.
- **Multi-Frame Image masking control.**
- **Speed controllable Cine function** for *multi-frame* or *multi-image animation*, with *loop* or *bounce* option.
- **Instantly re-arrange series layouts and positions.**
- **Hide series listings to maximize viewing area.**
- **Easily copy images to Windows Clipboard or export images to BMP, JPG or DICOM** files for use in other applications or for *training or demonstration*.
- **Easily print series to any Windows or DICOM printer(s)** with selectable print layouts.
- **Most functions & features are available via the mouse, or easy to remember keyboard shortcuts.**
- **Complete built-in Training & Help Files.**

CoActiv EXAM-Essentials... Less Than \$15,000... Complete!