

# ClinicalExpress<sup>®</sup>

## General Radiography & Mammography

### DICOM Film Acquisition Software

*Integrating prior studies and outside facilities...*

**ClinicalExpress** is designed for ease of operation and developed specifically for use with VIDAR's industry leading line of film digitizers — the CAD PRO<sup>®</sup> Advantage, DiagnosticPRO<sup>®</sup> Advantage, and SIERRA plus. This software application complies with the Digital Imaging and Communications in Medicine (DICOM 3.0) standard to digitize prior films and send the images to the PACS archive, Mammography Reading Workstation, or other DICOM compliant workstation. The software is CE-MDD compliant and is available in modules to build a cost-effective solution for your specific needs. Choose from the Base Package for General Radiography or the Base Package for Mammography – or combine the two. Add-on modules for Modality Worklist and/or Patient Data Interchange (PDI) are available to complete your solution. The ClinicalExpress software is available in English, German, Spanish and Italian.

**General Radiography.** Digitize general radiography films or CT/MRI images. The base package for general radiography includes the ability to print digitized films for chemical-free film reproduction. It also includes the ability to separate MRI and CT films into single images in one series for viewing in cine mode at a reporting workstation. Paper scanning is available only in this module.

**Mammography.** ClinicalExpress provides a dedicated user interface for digitizing Mammography priors. A visual display allows the user to quickly see if the films are in the proper order for application of DICOM MG hanging protocols. Radiologists see the prior images along with the new digital study on the Mammography reading workstation with their hanging protocol preferences applied. Most importantly, radiologists can focus on their task with fewer interruptions and without moving between 2 different reading technologies (a soft read workstation and a film view box). This has a negative impact on the visual system as well as a radiologist's concentration.



**Digitizing.** ClinicalExpress acts as image acquisition software, managing the auto-feed film feeder\*\* of the digitizer to digitize films and associate the images with a single patient and study. The application provides imaging tools, including window & level, for quality assurance and image adjustment.

**Transmission.** Upon completion of digitization and QA, ClinicalExpress transfers the completed study to the selected target or DICOM network node – either locally or at a remote site. The system will test the transmission path and monitor study transmission.

**Less time... Fewer errors.** The Modality Worklist option allows ClinicalExpress to query for patient demographics and study data from a DICOM Modality Worklist server, eliminating the need to retype patient study information and minimizing the possibility of misplaced images.

**Import/Export other DICOM Media.** The DICOM IHE/PDI option allows importing of DICOM data from portable CD media to send to PACS. When used with the Base Package for General Radiography module, paper report documents (via standard black and white document scanner) can be imported, converted to DICOM and along with digitized DICOM images written to CD.



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## System Specifications

### Computer

The *minimum* computer system is:

- 3.0 GHz Pentium 4 PC
- 1.0 GB of memory; more for large sets of high resolution images
- 50 GB hard disk
- VIDAR-approved interface to the digitizer
- Windows 2000 Service Pack 4 or Windows XP Professional Edition Service Pack 1 or 2
- Video card with 16 MB memory set to 1280 x 1024 resolution and 64,000 colors or higher color depth
- 15" display with 1280 x 1024 resolution (if not digitizing mammography films, one can reduce to 2.0GHz speed, 512 MB memory and 30 GB hard disk)

### Film Digitizers

ClinicalExpress works with these VIDAR digitizers:

- DiagnosticPRO Advantage
- SIERRA *plus* \*
- CAD PRO Advantage

### Modules – Buy only what you need

- Base Package for General Radiography (DICOM SC)
- Base Package for Mammography (DICOM MG)
- DICOM Modality Work List
- DICOM PDI: CD-ROM Media Import/Export and paper scanning with separate paper scanner.

### Paper Scanners

Must be TWAIN compliant. Contact VIDAR for a complete list of supported b/w paper scanners.

### Common Features

- QA tools: window/level, rotate, flip, invert, and redact sensitive information.
- HIPAA compliance functions include auto logout, locking function keys, patient data anonymization and audit trail.
- Local patient database query
- Thumbnails for quick access to images
- One-click image deletion
- Batch\*\* Scanning (if supported by the digitizer)
- DICOM JPEG lossless image compression
- Digitize & send (or print if available) in one operation

### Base Package for General Radiography

- DICOM (SC) Storage Class User
- DICOM Print
- Combine multiple images on one film (copy only)
- Separate MRI and CT films into single images in one series for viewing in cine mode at reporting workstation.
- Anatomical processing

### Base Package for Mammography

- DICOM (MG) Storage Class User
- Visual QA of image order before application of hanging protocols.
- Drag and drop to rearrange image order

**Note:** In accordance with FDA regulations and ACR guidelines, Mammography images digitized using ClinicalExpress are to be used for Reference/Review only, not primary diagnosis.

**ClinicalExpress is not Diagnostic viewing software.**

\* SIERRA *plus* does not support 570 dpi image resolution and is therefore not appropriate for mammography.

\*\*ClinicalExpress supports batch scanning, but only for one patient study at a time. It is not recommended for applications with a large volume of mammography priors to digitize.

Specifications are subject to change without notice.

365 Herndon Parkway  
Herndon, VA USA 20170  
[www.filmdigitizer.com](http://www.filmdigitizer.com)

Phone: +1.703.471.7070  
Toll-Free: 1.800.471.7226  
Fax: +1.703.471-1165



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