CR30-ORACLE^{CR}

with Office Viewer

A "Revelation" in Computed Radiography

Quantum
MEDICAL IMAGING
Innovations in Digital Imaging

AGFA *Agfa*
HealthCare
Solution for Quantum Medical Imaging

CR30-ORACLE^{CR}

CR30-ORACLE[CR]
with Office Viewer

The CR30-ORACLE[CR] System Package introduces advanced features and functionality to the world of radiography. Most importantly, the CR30-ORACLE[CR] is configured with MUSICA^2 GenRad - Advanced Image Processing Software from Agfa HealthCare. This provides the practitioner with unsurpassed image quality; because every patient deserves the highest image quality technology can deliver without compromise, while maintaining the lowest possible dose.

Definition:
Or-a-cle (noun)
1) Revealing hidden knowledge
2) Source of wise counsel
3) A revelation

The CR30-ORACLE[CR] Package is economically priced. Loaded with easy-to-use NX software features, designed to optimize workflow and make patient care a number one priority, this great package comes complete with the software and hardware you need to **Go Digital** today. The CR30-X Digitizer is a table-top CR designed for the workflow found in the practice setting. The practitioner can perform all their daily tasks using Agfa's NX worklist and examination windows. The worklist window allows the radiographer to enter patient data or select it from a RIS-Based worklist (optional). In the examination mode, the radiographer can acquire the image and apply image processing automatically. Gridline Suppression software is included to automatically detect and remove grid patterns caused by stationary grids and remove Moiré artifacts from the monitor. The fast preview feature allows confirmation of correct positioning and exposure within seconds, even while the final image is being processed. The practitioner can review and interpret the patients' image shown in full screen mode, while using Pan and Zoom functions. Options are provided for a 2MP or 3MP monitor if desired. The images can be sent to print, another workstation or can be stored on the ORACLE[CR]. The system includes a 500GB x2 Level 1 RAID HD. This provides expanded image storage. The compact and convenient CR30-ORACLE[CR] is easy to install, use and maintain, providing seamless integration and multiple functions.

19" BARCO Color Touchscreen Color Monitor
* Monitor Comes with a 3 Year Warranty

LOADED WITH FUNCTIONALITY:

The CR30-ORACLE[CR] with Office Viewer provides the technologist with today's cutting-edge software features designed to speed up and simplify every day practice procedures while expanding on the ability of image study and review.

Software Features:

NX Premium EL CR30-X Software and MUSICA[2] GenRad™ SOFTWARE
- On-line processing software performs multiple tasks
- Automatic Image-Processing (utilizing MUSICA[2] GenRad™ Software) of incoming raw data from the CR unit
- Automatic or manual window/level setting
- Manual "black-border" collimation
- Pan, Roam, Zoom, Flip/Rotate, Free Text Annotation, R/L Markers, Search Tools
- HIPPA security log and IHE workflow compatibility
- Examination Window for Image QC
- Editing Window for Advanced Image QC Functions and Options
- DICOM PRINT
- Printer ready configuration can print to Agfa's DryStar dry printers and other DICOM enabled printers (multiple connections allowed)
- DICOM STORE/SEND
- DICOM-Store Connection Software allows network transmission in the DICOM standard communication protocol format
- DICOM Storage Commit
- Images can be transmitted via network to PACS, standalone review stations, teleradiology servers in DICOM or JPEG formats.

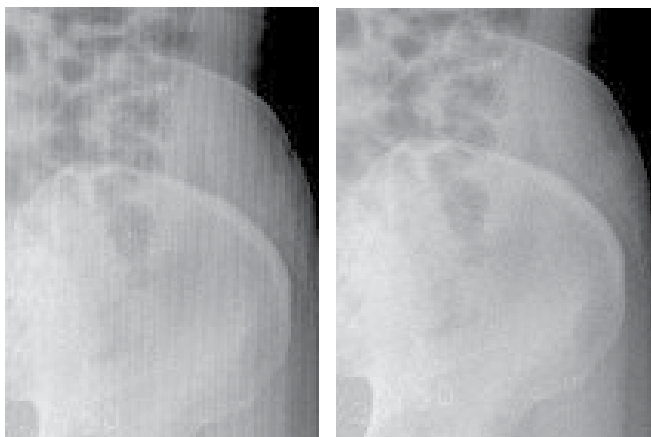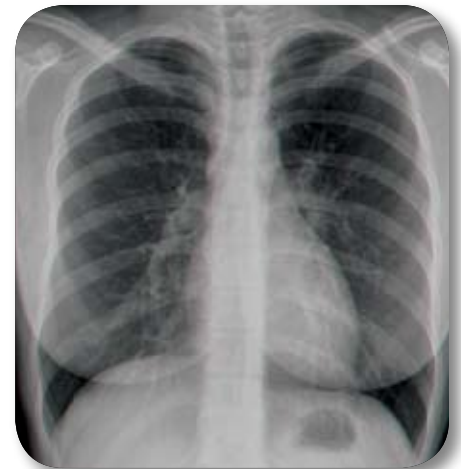**DICOM Grayscale Display Standard "P-Value" OUTPUT**

CD/DVD EXPORT – DICOM image with viewer, and JPEG formats

Grid Line Suppression Software: (E4ZX8)

Automatic Detection & Removal of Grid patterns caused by stationary grids
Removal of Moiré artifact on Monitors

Office Viewer Software

Gridline Suppression Software: Detection & removal of grid patterns caused by stationary grids. Removal of Moiré artifact on monitor.

NX -ID SOFTWARE

QC and ID software records patient demographic and examination data in a study-oriented format onto the memory chip embedded in the CR30 cassette via radio frequency ID on one exam screen.

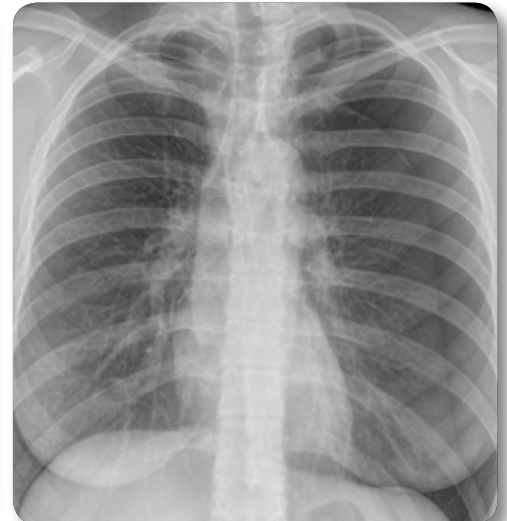CR Cassettes come with a 2 Year Warranty. Industry Best!

MUSICA²

Advanced Image Processing (Optimizes Image Quality and Workflow)

MUSICA² ™, automatically optimizes bone and soft tissue visualization with outstanding sharpness and contrast in the finest details to minimize the need for post-processing and to increase workflow efficiency

MUSICA² Image

MUSICA² Image

Agfa MUSICA²

Agfa HealthCare's unique and patented Multi-scale image Contrast Amplification algorithm, "MUSICA", automatically processes the radiographic image at multiple frequency ranges (detail sizes) and optimizes the contrast within each of these ranges.

MUSICA² is second generation MUSICA which intelligently renders exceptional bone and soft tissue detail simultaneously. MUSICA² analyzes the image data before applying optimal contrast and density to all details within the image.

This results in maximum radiographic detail throughout the images, greatly reducing the need for manual activities such as window and level. The improved image quality, productivity and workflow results in a process that is more efficient from start to finish.

Higher Image Quality

Image optimized to the response of human visual system, results in higher image quality, autonomy and robustness. Enhance bone and soft tissue detail, displayed in a single image, eliminating contrast or density compromise.

Increased Workflow Capability

The software processes the image automatically, virtually eliminating the need for routine window and leveling, allowing the technologist to stay close to the patient.

Improved Care and Throughput.

Greater image detail and quality helps radiologists to make diagnosis quickly and with a higher level of confidence, ultimately providing an efficient patient care experience.

Office Viewer

Enhanced Systems Features (Increased End-User Benefits)

* Mouse Tools:
Zoom (wheel)
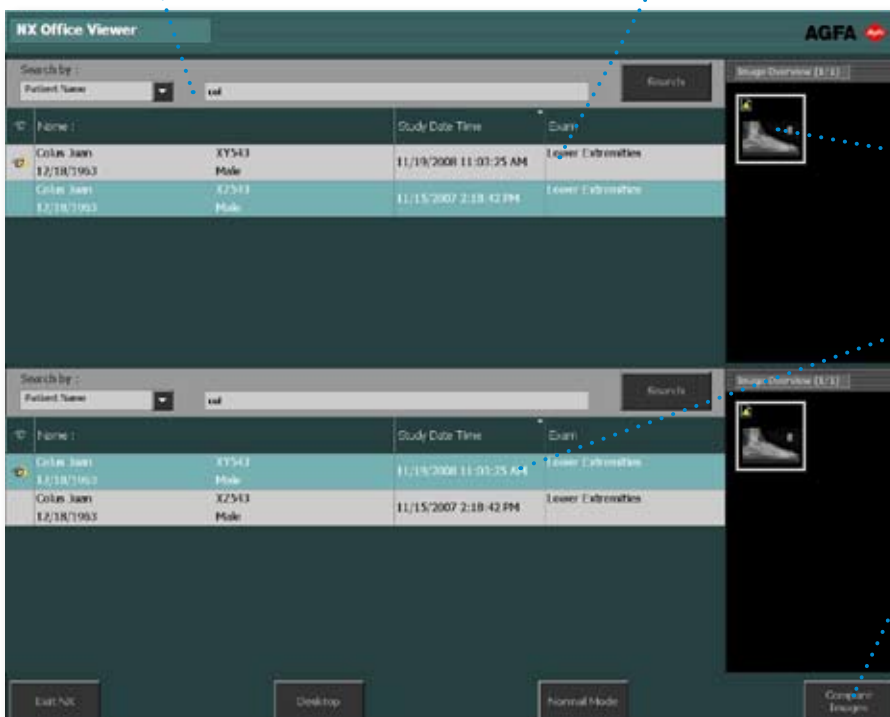Roam (hold down Left btn)
W/L (double click)

* Right click Menu:
Invert
Demographics on/off
Next/Previous image
Print screen to office printer*
Save screenshot as jpeg*
(*non-diagnostic)

Toggle Demographics
Invert Image
Print Screenshot
Save Screenshot as JPEG

Lower Extremities
Foot Lat
AP
05-18-2009 12:29:00 PM

*Note: *Mouse Tools/Click Menu (top) are not part of original software screen.*

The Office Viewer software design allows practitioners to show and review NX Images with patients. It's developed for small practices that operate without a PACS system or without web image distribution capabilities. In addition it's easy to install on non-Agfa office PC's on their network. Up to six client workstations can be connected and three can run simultaneously. Office Viewer allows multiple functions such as: searching the database, window/leveling, Pan, Zoom, Magnification, Invert Image, Demographics On/ Off, Next/Previous image, print screen to standard office printer, Save As - JPEG, Compare mode.

Office Viewer allows for side-by-side image comparison

Use the search window to search/view the connected NX database

Patient information

Click on the thumbnail to view the images in full-screen mode

Secondary Patient information

By clicking the "compare" mode the system will allow you to view/compare stored images side by side

CR30-ORACLE^{CR}
with Office Viewer

CONFIGURED TO MEET YOUR REQUIREMENTS

CR30-ORACLE^{CR} System with Office Viewer comes in two system configurations.
The standard configuration "Q-1" provides complete system and software features , while the "Q-PLUS" configuration comes equipped with additional software features for those practices in need of greater system flexibility.
Both configurations allow for customized upgrades to meet your exact expectations and requirements.

CR30-ORACLE^{CR} "Q-1" System Features:
- Supports DICOM LOSSY & LOSSLESS JPEG Image Compression formats
- Increased Image Storage – 12,000 to 15,000 Images
- NX 2008 Software Included
- Auto-select next exposure after ID
- Improved Work-list Search Tool
- "FULL SCREEN MODE"
- "COMMENT" Field
- Forced Operator ID and/or Patient Data Entry (Configurable Option)
- Possible to connect to Multiple RIS (Requires NX RIS Software)
- Report Format for Repeat-Reject Analysis (Requires NX QA Software)

Add an Option, Brighten your Digital Future

CR30-ORACLE^{CR} "Q-PLUS" System: (+)
The CR30-ORACLE^{CR} "Q-PLUS" Package offers all of the features found on the "Q-1" package as well as options marked by the blue (+) on the Options list.

CR30-ORACLE^{CR} "Q-1" System Options:
All options listed below can be installed into the CR30-ORACLE^{CR} system individually:
- (+) • NX "Square Marker" SOFTWARE
- (+) • NX "Black Border" Software (Automatic)
- (+) • NX PRECISION TOOLS SOFTWARE
  - Annotation (advanced/programmable) Tools
  - Ortho Measurement Tools, including Cobb Angle and Leg Length
  - Digital Imaging Measurement Tools
  - MUSICA² Image Processing Control panel
- (+) • NX RIS Connectivity Software
  - Link To DICOM RIS-HIS, DICOM Queary And Procedure Code Mapping
- Extended Storage Option to 30,000 images
- NX Integraged Workflow Software Package Emergency, MPPS, And Viewing Priors
- NX Quality Assurance Software Dose Consistency Reporting And Repeat Reject Analysis
- Mobile Kit – Appropriate For Mobile Use (Vans, Military, Cruise Ships, etc.)
- Available as a Laptop configuration
- Scoliosis And Long Leg Imaging Options
- Q-CART - Stand for CR30-X with Monitor and Keyboard
- Available as a Veterinary specific configuration
- UPS - Uninterruptable Power Supply

CR30-ORACLE^{CR} is available with an Extended Storage Option which increases the amount of storage capacity of the system up to 30,000 Images or 7,500 Exams.

In the examination screen and/or the editing screen you can configure the icon to go to full screen view. Clicking any key or clicking on the red cross in the right upper corner of the image will close the full screen view and return to normal view for that environment. Zooming and Roaming functionality available for use in full screen mode.

Repeat-Reject Program (Optional NX QA Software)

CR30-ORACLE^CR *Specifications*
with Office Viewer

Digitizer Type
• CR 30-X Single Plate Reader
• Throughput; up to 76 plates/hour

LCD Display
• Machine status and error conditions

Grayscale Resolution
• Data acquisition: 20 bits/pixel
• Output to Processor: 16 bits/pixel

Reader Dimensions and Weight
• (W x D x H): 693 x 701 x 464mm (27.2 x 27.6 x 18.2 in)
• Depth including input tray: 769 mm (30.3 in)
• Weight: approx. 98kg (216.05 lbs)

Power
• 120V/60Hz (USA)
• Standby 120 W, max. 250 W, 15A fuse

Miscellaneous
• 19" High Quality Touchscreen Color Monitor
• CR NX Server: HP 500GB X 2 HD Level 1 Raid PC Workstation, Keyboard, Mouse

Environmental Conditions
• Temperature: 15° to 30° C (59 to 86° F)
• Humidity: 15 to 75% RH
• Magnetic fields: max. 3.8 µt in conformance with EN 61000-4-8: level 2
• Rate of change of temperature: 0.5°C/minute (0.9°F)

Environmental Effects
• Noise Level. max. 65 dB (A)
• Heat dissipation: standby 120W, max. 250 W

Approvals
• UL, cUL, CE

Transport Details
• Temperature: -25 to +55° C (-4 to 131° F) , -25° C for max. 96 hrs
• Humidity: 5 to 95% RH

High Resolution Scanning at 10 pixels/mm
• Intel Core Duo E8400 Processor
• Microsoft Windows XP Pro SP3 OS
• 19" BARCO Color Touchscreen High Quality Monitor with Optimizing Software
• CR NX Premium EL Software

CR30-ORACLE^CR System is available as a Laptop Configuration

Quantum Medical Imaging

Pioneering technology from the premiere innovator in imaging…

CORPORATE OVERVIEW

Quantum Medical Imaging is a highly innovative company which designs and manufactures high quality medical radiographic systems for hospitals and imaging centers around the world. The company's mission is to supply the radiographic imaging industry with superior products for enhanced diagnostic capability.

Quantum Medical Imaging and Agfa HealthCare have combined their innovative concepts and advanced technology once more to create a world class digital imaging solution. The CR30-ORACLE^CR offers high value digital imaging with an affordable total cost of ownership. By utilizing incredible image quality and flexible workflow, the CR30-ORACLE^CR brings you the benefits digital radiography at a very cost-effective solution.

Quantum
MEDICAL IMAGING
Innovations in Digital Imaging