



CR30-SP+

Computed Radiography (CR) Table Top System



CR30-SP+ Package

An Agfa Healthcare Solution for Quantum Medical Imaging

The CR30-SP+ Package introduces Agfa HealthCare's new CR 30-X digitizer, an exciting new table top CR designed specifically for the smaller practice. The compact and convenient CR 30-X is easy to install, use and maintain, providing seamless integration, from X-ray exposure to print or softcopy.



The CR30-SP+ Package is economically priced and includes features that provide the same high image quality and advanced functionality of packages with more expensive full size models, because every patient deserves the highest image quality technology can deliver without compromise. Loaded with easy-to-use NX software features, designed to



optimize workflow and make patient care your number one priority, this great package comes complete with the software and hardware you need to *Go Digital* today.

The Most Frequent Tasks Are The Easiest To Do

The radiographer can perform all their daily tasks using NX's Worklist and Examination windows. The Worklist window allows the radiographer to enter patient data or to select it from a RIS-Based Worklist (Optional). In the Examination mode, the radiographer can capture the patient identification and QC the image all in the same window. The Fast Preview feature allows confirmation of correct positioning and exposure within seconds, even while the final image is being completed.



19" BARCO Color Touchscreen Monitor

Agfa MUSICA²

- MUSICA², intelligent image processing algorithm 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.

MUSICA¹ Image



MUSICA² Image



The CR30-SP+ Package Includes Software Loaded With Functionality:

CR NX On-line Processing and MUSICA² Software

- On-line processing software performs multiple tasks :
 - Automatic Image processing (utilizing MUSICA²) of incoming raw data from the CR unit
 - Automatic window/level setting
 - Manual "black-border" shuttering collimation
 - Sensitometry mapping
 - HIPPA security log and IHE workflow compatibility
 - Supplies user with a fundamental QC-Viewer for basic image correction

NX Precision Tools Software

- NX Precision Tools Include:
 - Annotations (advanced/programmable) Tools
 - Ortho Measurement Tools
 - Digital Imaging Measurement Tools
 - MUSICA Image Processing Control Panel

Details of Precision Tools

- Advanced Annotations Content
 - Patient positioning markers (available on both Examination and Editing screens)
 - Zoom/roam image
 - Add predefined text
 - Add free text with/without arrow
 - Invert image
 - Apply shutters
 - Show/hide histogram
- Advanced Measurements Content
 - Linear and circular calibration
 - Angle
 - Surface measurement of a circular
 - Rectangular
 - Free hand or polygonal annotation
 - Distance measurement
 - Leg length difference measurement
 - Scoliosis measurement
 - Perpendicular
 - Line with midpoint
 - Set different colors

Add an Option, Brighten Your Digital Future

- NX Optiview:
 - Square Marker, Grid Line Suppression and Black Border licenses
- NX Integrated Workflow:
 - Emergency, MPPS and Viewing Prior licenses
- NX Quality Assurance:
 - Dose Consistency Reporting and Repeat/Reject program licenses
- NX RIS Connectivity:
 - Link to DICOM RIS-HIS, DICOM query and Procedure Code Mapping software
- Mobile Kit:
 - Appropriate for mobile use (van, military, cruise ships, etc.)

Scoliosis and Long Leg Imaging Option

- CR NX Full Leg/Full Spine Stitching Software
- Cassette Holder with Planfeld Positioning Grid Pattern
- CR EZ-Lift, FLFS Cassettes and Anti-Scatter Grid

CR30 Cart

- Stand for 30-X with Monitor and Keyboard Holder
- Convenient storage below table top for PC, extra cassettes and UPS (optional)
- Top is 28 x 28", sits 30" off the floor with a max pole height of 66" for Monitor Stand



*For a complete list of available options please contact your local distributor.

MUSICA²

Advanced Image Processing (Optimizes Image Quality and Workflow)

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 image, greatly reducing the need for manual activities such as window and level. The improved image quality, productivity and workflow result in a process that is more efficient from start to finish.

Higher Image Quality

- Image processing 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

- 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 diagnoses more quality and with a higher level of confidence, ultimately providing an efficient patient care experience.

MUSICA¹ Images



MUSICA² Images





Specifications

CR30-SP+ General Technical Specifications

Digitizer Type

- CR 30-X Single Plate Reader
- Throughput: up to 70 plates/hour

LCD Display

- Machine status and error conditions

Grayscale Resolution

- Data acquisition: 16 bits/pixel
- Output to processor: 12 bits/pixel

Reader Dimensions and Weight

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

Power

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

Miscellaneous

- 19" Medical-Grade Touchscreen Color Monitor
- CR NX Server: Dell Precision Workstation (min) 3.6 GHz, 2x73GB HD, CD-RW, Windows XP OS

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 120 W, 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

Cassette Sizes: CR MD4.0T General Cassettes

CASSETTE SIZES

35 x 43 cm (14 x 17 in)
24 x 30 cm
18 x 24 cm (option)
15 x 30 cm (option)

SPATIAL RESOLUTION

10 pixels/mm
10 pixels/mm
10 pixels/mm
10 pixels/mm

PIXEL MATRIX SIZE

3480 x 4248
2328 x 2928
1728 x 2328
1440 x 2928

The Quantum/Agfa CR30-SP+ Package Includes:

- CR 30-X Single Plate Reader
 - with Automatic Cassette/Plate Handling
- CR NX Workstation
- Dell Optiplex™ Workstation, with Dual Core Processing,
 - CD -RW Drive, Keyboard, Mouse,
 - Microsoft Windows XP Pro SP2 OS, (minimum specification)
- 19" BARCO Color Touchscreen Monitor with DICOM Optimizing Calibration Software
- CR NX SP Premium Software
- Patented MUSICA² Image Processing Software
- CR NX Precision Tools
- CR NX ID and Examination Software
- DICOM Store/Send and DICOM Print
- "P-Value" Display Output For Compatible PACS
- DICOM CD Export For DICOM CD Burning With a Viewer
- 2 each 35x43 Cassettes With MD 4.0T Imaging Plates
- 2 each 24x30 Cassettes With MD 4.0T Imaging Plates



Innovations in Digital Imaging

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