KONICA MINOLTA

DIRECT DIGITIZER

REGIUS MODEL 370

The essentials of imaging

AIM TO NEW STAGE OF DIAGNOSTIC IMAGE QUALITY

A unique reading mechanism brings
a tremendous 210 sheets per hour of processing performance.
And, the reader is equipped with various latest technologies,
such as, a NEW X-RAY DETECTOR ,
the highest solution for ultimate diagnostic imaging.

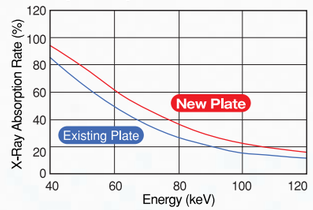
New Detector

REGIUS MODEL 370

New Plate is introduced

Newly developed Plate (X-ray detector) is introduced with the REGIUS 370. This Plate is totally new and made available using stimulable phosphor that is solely developed by KonicaMinolta in order to make full use of the available X-ray information.

■ X-Ray Absorption Rate of New Plate

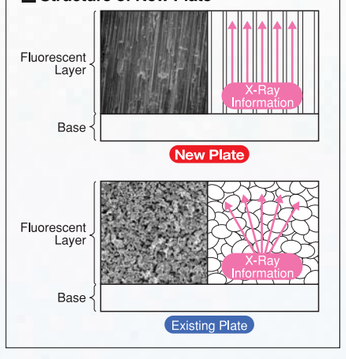


Excellent Features of New Plate

■ **X-Ray Absorption:** Using ideally selected substances as the fluorescent material allows maximum use of the X-ray information while eliminating unnecessary losses.

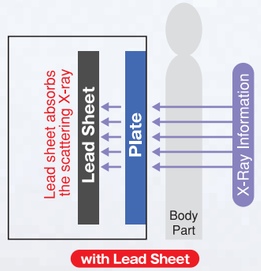
■ **Fluorescent Layer Structure:** Columnar fiber crystal structure allows superior efficiency in the release of X-ray information. Of special interest is the X-ray information located at the lower layer which can now be fully utilized.

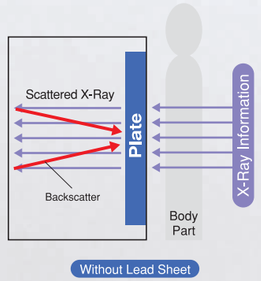
■ Structure of New Plate



High-quality and fine image quality fascinates all.

■ Anti-Backscatter Technique





Anti-Backscatter Technique

In order to reduce the X-ray scatter at the inner wall of the reader (detector), which is the main reason of lowering the image contrast, a lead sheet is attached to the back of the detector. As a result, contrast deterioration is limited to the minimum, and stable imaging quality is ensured.

Minimum Pixel Size of 87.5μm

REGIUS 370 offers two types of sampling pitches, i.e. 87.5μm and 175μm. Selecting the sampling pitch suitable to the body part or diagnostic purposes allows producing the images with the best-suited resolution.

TECHNOLOGY

A stable and sofisticated mec hanism brings the powerful performance and gentle touch for patients.

Large Exposure Field (17x17in)

REGIUS 370 offers flexible operation in various exposures for different body parts. In addition, excellent erasure characteristics of New Plate achieve reliable exposures repeated at the speed of 210 plates/hr.

Operation Panel enabling Flexible Use

Operation panels are located on the right and left panels of the REGIUS 370. The operation panel allows the operator staying in the X-ray room to change the exposure size, orientation and center position that have been set in advance. Indicator window is located at the user's eye level, which enhances the reliability of the examination through indication of the patient's ID numbers and names.

Enhanced Durability

REGIUS 370 inherited the features that are common to all REGIUS series, where the detector is kept out of physical contact with any component all through reading to erasure process. Avoidance of physical contact made possible by this mechanism eliminates scratches possibly caused by transportation, thus satisfactory images are ensured. In addition, prolonged lifetime of the detector is appreciated for its contribution to lower operating costs.

Care for Patient

REGIUS 370 is designed with patient care in mind. This is the reason for its graceful design. In addition, considering the situation where the wheel-chaired patient needs to be X-rayed a knee-detector switch is provided. This detector bar is extended through to the edge of the side panel so that it detects without failure.

Direct Read

REGIUS 370 adopted "Direct Read Mechanism" which has been inherited through REGIUS series, where an X-ray detector built in the reader is scanned while the optical unit is moving across the plate. With the reading mechanism unique to KonicaMinolta, the X-rayed image starts showing simultaneously as it is exposed, enabling image verification in seconds.

PERFORMANCE

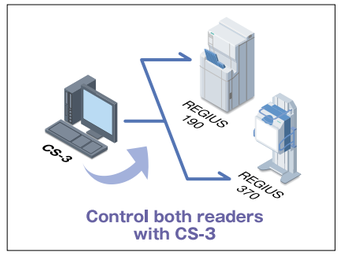
CONSOLE CS-3

REGIUS CONSOLE CS-3

CS-3 incorporates a user interface similar to that of CS-1. Both are highly regarded for their intuitiveness and simplicity. CS-3 provides the user flexibility in system configuration needed to create the ideal workflow.
The unit is also equipped with a User Tool that gives complete freedom to customize image settings.

Multi-reader control.

One CS-3 unit seamlessly controls both reader units of the Model 190 and Model 370. For superior processing continuity, the flow of exposures is uninterrupted while the images are acquired.

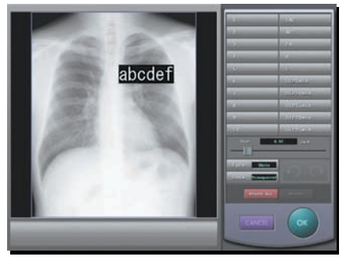


Data Analysis Function (option)

This option stores and tracks rejected images with user customized reasons. It provides statistics for exposure counts, reject rates, S value and other system performance data, making it a valuable tool for day to day management.

Annotation

This function allows the user to create free text annotations and to place them anywhere on the image. The annotations are saved as part of the image for printing or DICOM storage.



The CS-3 software provides a new fashination of control the REGIUS

▲1image Routine Menu

▲4images Routine Menu

A better real-time display.

Shorter time from exposure to image checking is important for the user's efficiency. The CS-3 makes it possible to check the image in the least amount of time possible, since images are displayed in real time.

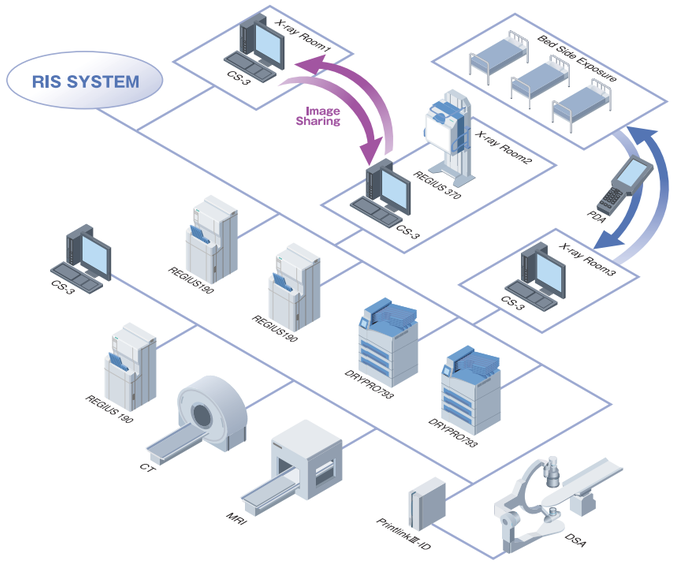
▲Screen Customization

▲Image Quality Adjustment

User Tool

This tool allows the user to modify processing parameter settings, examination key layout, and other settings with ease. The operation is highly visually oriented : users can browse previous images while using slide bars to change the settings; images are then updated as the settings change. The drop and drag function for creating examination keys are also intuitive and simple to use.

A Example of KONICA MINOLTA SYSTEM



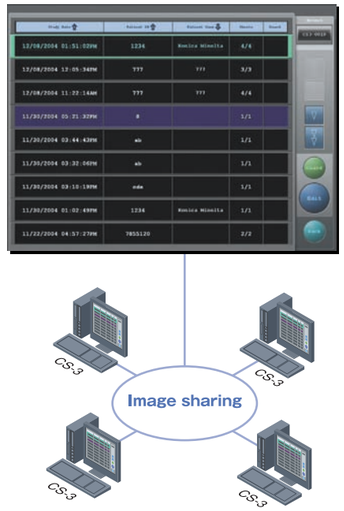


Image Sharing Function (option)

This function allows sharing of images among multiple consoles on the same network. Images on another CS-2/CS-3 can be accessed from a remote location for viewing and editing.

SPECIFICATIONS

Direct Digitizer REGIUS MODEL370 (DD-841)

■**Exposure size**
17"×17" 14"×17" 17"×14" 14"×14" 11"×14"
14"×11" 10"×12" 12"×10" 8"×10" 10"×8"

■**Sampling pitch**
87.5μm / 175μm

■**Exposure cycle time**
Approx. 16 seconds (all sizes, 175μm)

■**Processing capability**
Approx. 210 sheets / hour (all sizes, 175μm)

■**Maximum resolution**
4860×4860 (17"×17")

■**No. of digital gradation levels**
4096 levels (12bits)

■**Outer dimensions / Weight**
W800×D560×H1700mm / approx. 330kg

■**Power Consumption**
Single-phase 100V / 200V (Option) Approx. 1.0kW 50/60Hz

■**Operating conditions**
Temperature : 15~30℃
Humidity : 40~80% (no condensation)

■**Accessories**
Hand grip for anterior exposure,
Hand grip for lateral exposure, Foot switch,
Reader controller connecting cable set

■**Main options**
Auto collimation board, Lead apron arm,
Cassette holder, 200V Power cable

★The specifications above are subject to change without prior notice.

REGIUS Console CS-3

■**Image Processing**
Automatic Gradation Processing (G Processing)
Frequency Processing (F Processing)
Equalization Processing (E Processing)
Hybrid Processing (H Processing)

■**Image Output**
・**Maximum**
Host : 3ch for normal, 1ch for backup
Printer : 2ch for normal, 1ch for backup
・**CS-3 Standard Software**
Host or Printer : 1ch for normal, 1ch for backup

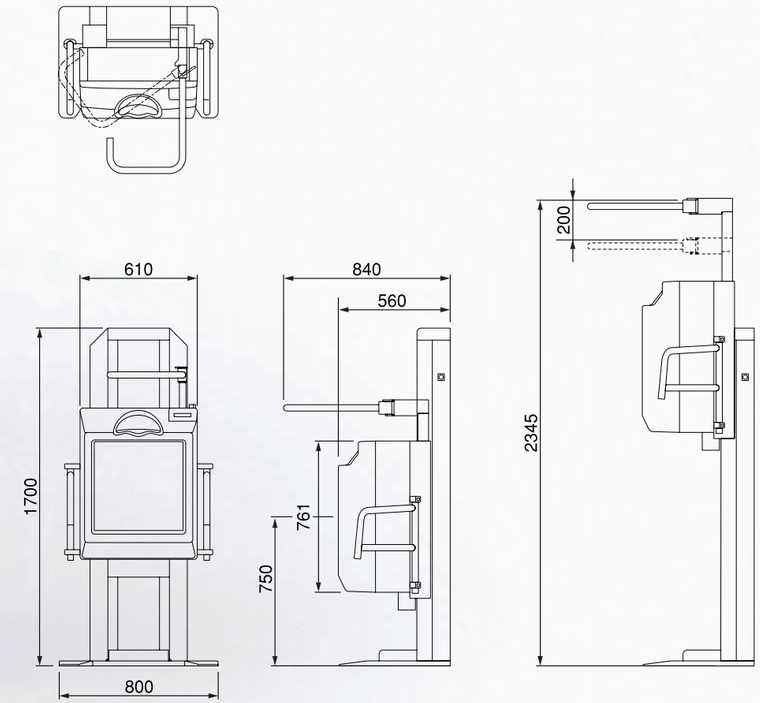
■**DICOM Support**
Basic Grayscale Print Management (SCU)
Storage (SCU)
Modality Worklist Management
Modality Performed Procedure Step
Grayscale Standard Display Function (print output)

■**Maximum Connection**
REGIUS 170/190 16units and REGIUS 370 1unit

■**Output Format**
1×1, 2×1, 1×2

■**Main Options**
・**Hardware option**
Bar Code Reader for Cassette Registration
CS-1 PDA
CS-1 PDA CRADLE
IDS WW
・**Software option**
CS-3 MWM/FTP/DETACHED Option
CS-3 MPPS/DETACHED Option
CS-3 HQ Mammography Option
CS-3 DICOM Output Additional#1
CS-3 DICOM Output Additional#2
CS-3 DICOM Output Additional#3
CS-3 DICOM Output Additional#4
CS-3 DICOM Output Package
CS-3 Stitching Option
CS-3 Image Sharing Option
CS-3 Data Analysis Option

REGIUS MODEL370 Outer Dimensions



Unit/mm, 1/30 scaled

REGIUS
MODEL 370

KONICA MINOLTA

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