KONICA MINOLTA

REGIUS
MODEL 210

DIRECT DIGITIZER

REGIUS MODEL 210

REGIUS

The essentials of imaging

REGIUS MODEL 210

All-around system that achieves

maximum productivity in various environments,

succeeding the "Super Distribution System" concept

from REGIUS MODEL 170.
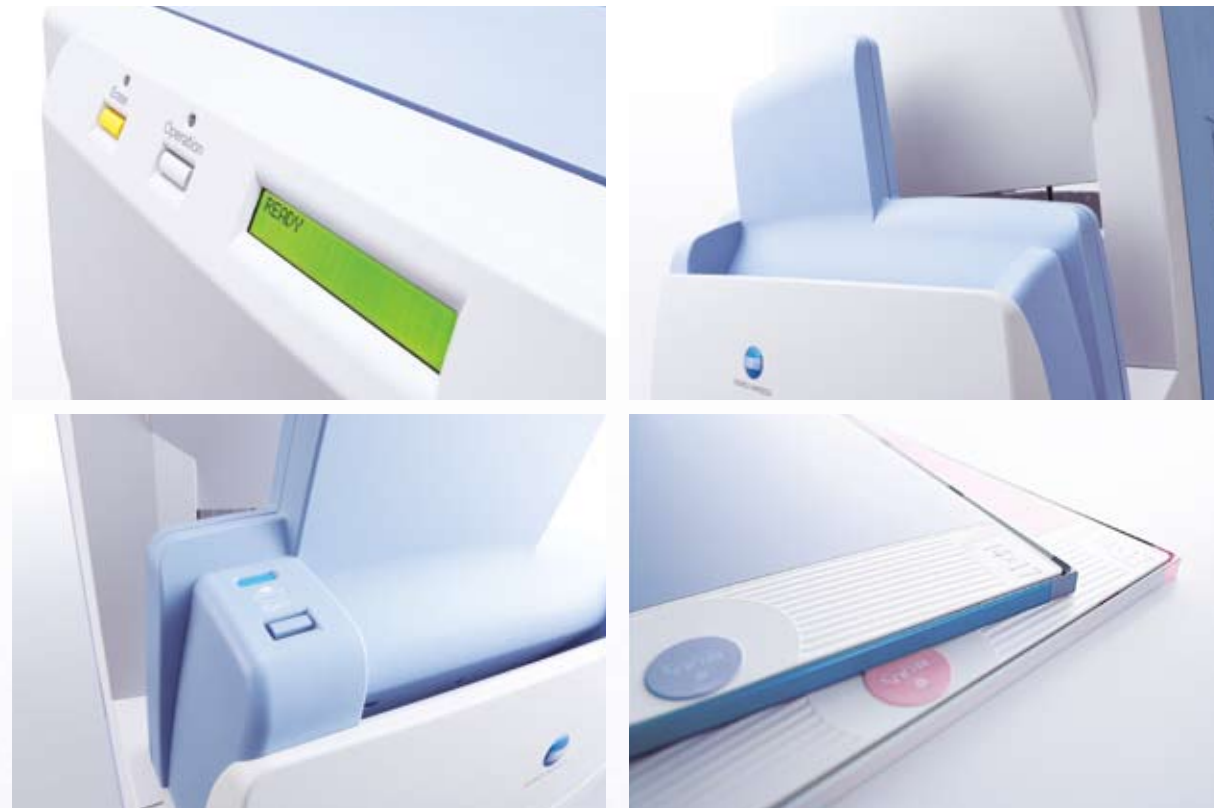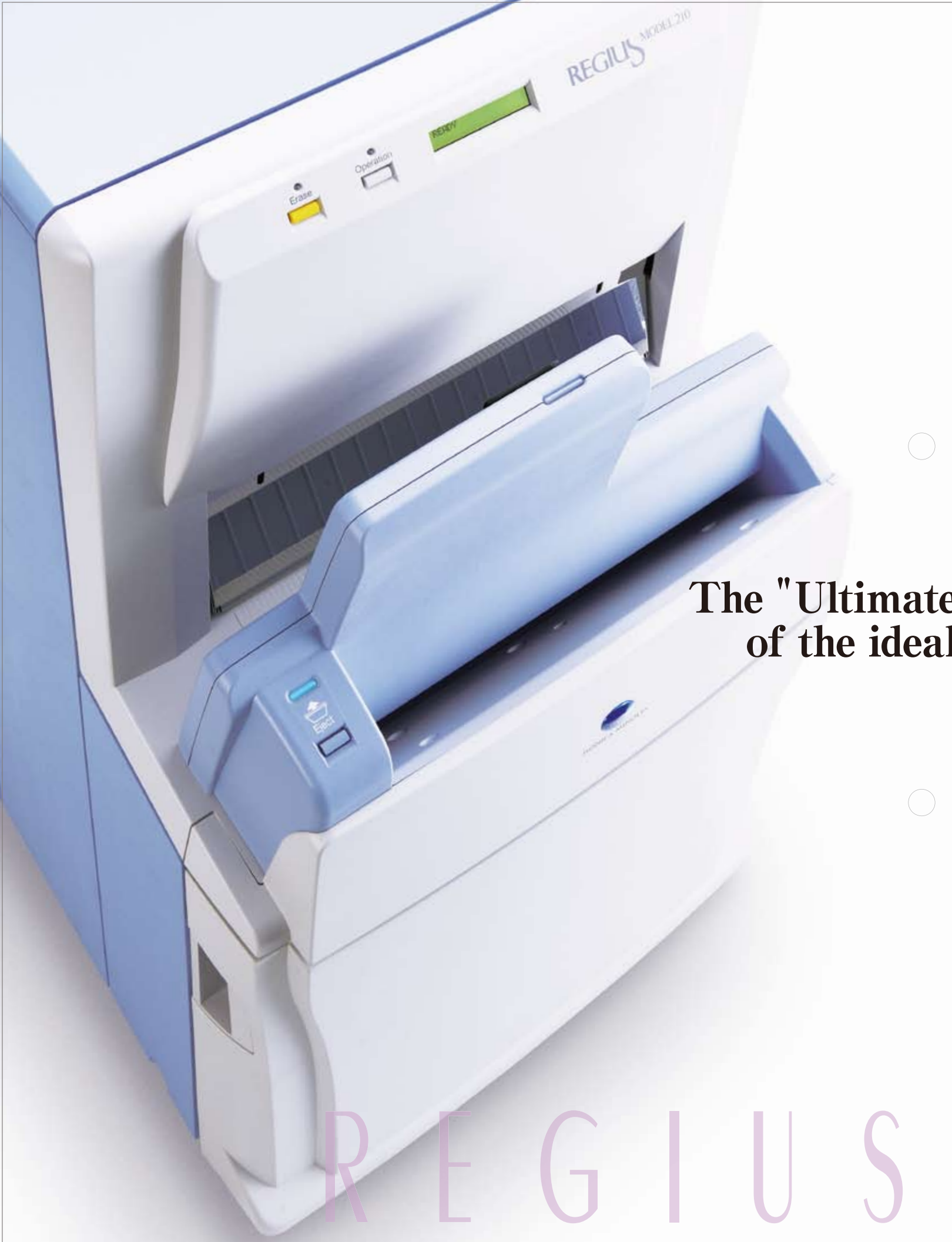
The system offers a 43.75μm※ read function for mammography;

with new, enhanced console features.

C-PLATE series cassette with columnar crystal phosphor is ideal

for mammography and pediatric use.

Introducing the New-Generation REGIUS

easier to use, ever more sophisticated.

※ Option license
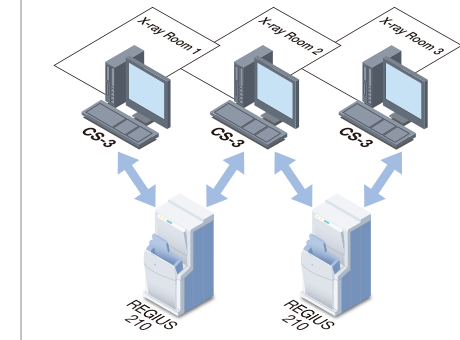
A new Compact, high-performance design.

Utilizing a unique dual bay design, the high speed reader of REGIUS Model 210 processes up to 100 plates per hour for maximum performance. This next generation reader radically improves workflow all within a mere 58×58 cm footprint.

Centralized image checking for flexible layout

The "Ultimate Resource Sharing" concept provides the flexibility to separate the location of the consoles and the readers. This allows for the same fast and thorough image checking as with conventional systems. The result : system layout and productivity are optimized according to the number of examinations conducted, the work line and floor space.

■Ultimate Resource Sharing Concept

X-ray Room 1 · X-ray Room 2 · X-ray Room 3
CS-3 · CS-3 · CS-3
REGIUS 210 · REGIUS 210

The "Ultimate Resource Sharing" concept enables realization of the ideal workflow in any scene of the medical institute.

Side panel for optical unit maintenance.

MODEL 210 has a side panel for the cleaning / maintenance of optical unit. Simply open the panel and pull out the cleaning knob for easy cleaning of the optical unit. Fine dust accumulated on the optical unit can be easily removed.

Two selectable options for cassette registration.

Cassette registration mode can be selected from two options, registration at imaging (barcode registration) and registration at reading (screen menu selection), according to the line of movements and system layout. This enables more flexible operation. Two types of bar code readers are available; single-type (above in photo) or multi-type.

REGIUS MODEL 210

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.

REGIUS CONSOLE CS-2

The CS-2 console used for the REGIUS Series is designed to provide the user with even greater ease and simplicity of operation. With the aim of offering a console that can be operated by anyone immediately after installation, only the most essential functions are incorporated into the CS-2 user interface. At the same time, various automated processing functions have been incorporated into CS-2 to create a highly efficient environment.

Choose the Console for your Ideal Environment

Control both readers with CS-3
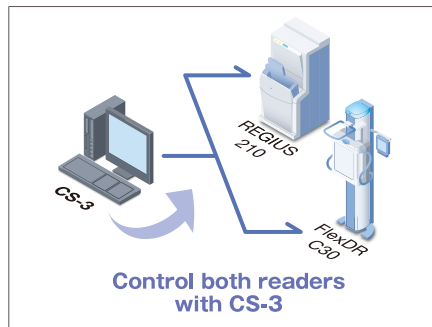
■ Multi-reader control.
One CS-3 unit seamlessly controls both reader units of the Model 210 and FlexDR C30. For superior processing continuity, the flow of exposures is uninterrupted while the images are acquired.
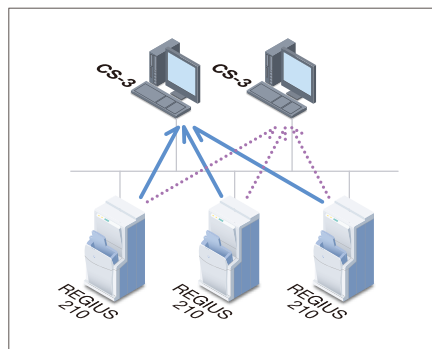
■ Freely Selectable Reader.
Images are always displayed on the CS-3 where the plate is registered, regardless of which reader was used to scan the plate. This makes it easier for the operator to check image quality while maximizing the reader utilization.

▲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.
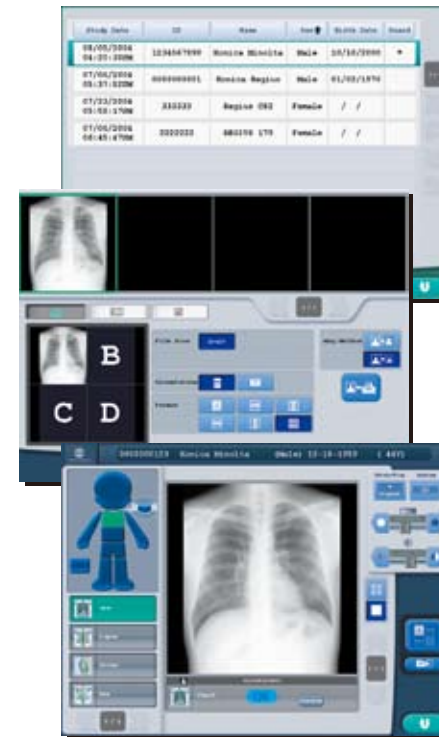
■ Easy User Interface (Easy GUI)
CS-2 allows the user to select the body part to be examined from the icon. Simplified screen operations, from patient registration to image verification are achieved by various automated processing function.

Chest

P—A   LATERAL

The CS-2 recognizes the body part automatically and apply correct image processing parameters
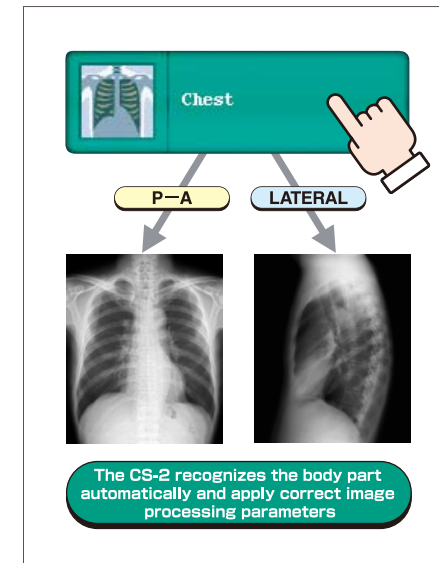
■ Automatic Body Part Recognition.
A comprehensive analysis of shape and density variations in the body part, and of the edge and continuity of bones, enable the CS-2 to produce an optimal image without the need for creating specific exam tag key settings.
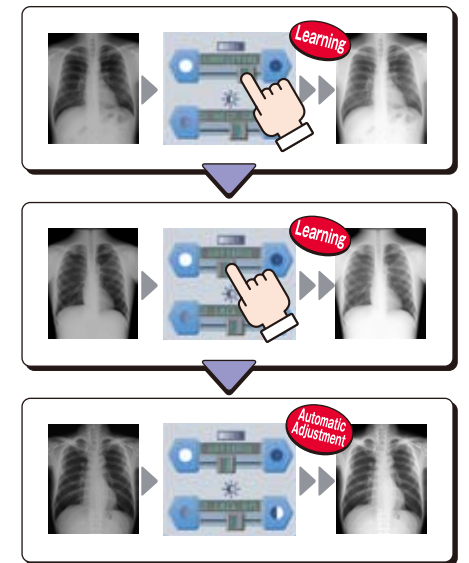
■ Automatic Processing Parameter Learning Function.
The CS-2 automatically memorizes preferred density and contrast adjustments made by the users and regularly calculates the average numbers for these settings. As a result, CS-2 automatically customizes image quality to match users' preference.

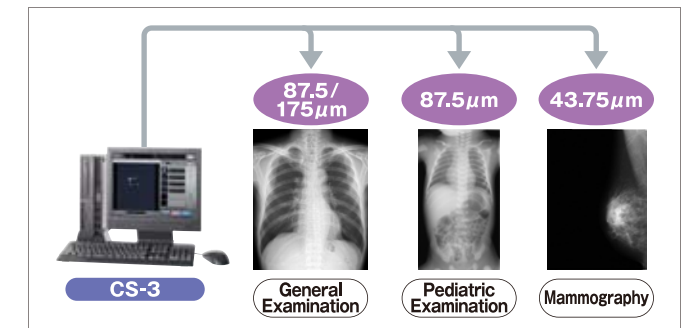C O N S O L E

MAMMOGRAPHY & BABIES

C-PLATE series with vapor deposition-type phosphor layer

"C-PLATE" features a columnar crystal phosphor layer that efficiently delivers photostimulated luminescence to the light reception unit. A high X-ray absorbing material is used as phosphor to achieve excellent sharpness and granularity. In addition to the cassette for mammography, cassette for pediatric use is now available that best meets the requirement for a reduced radiation dose.
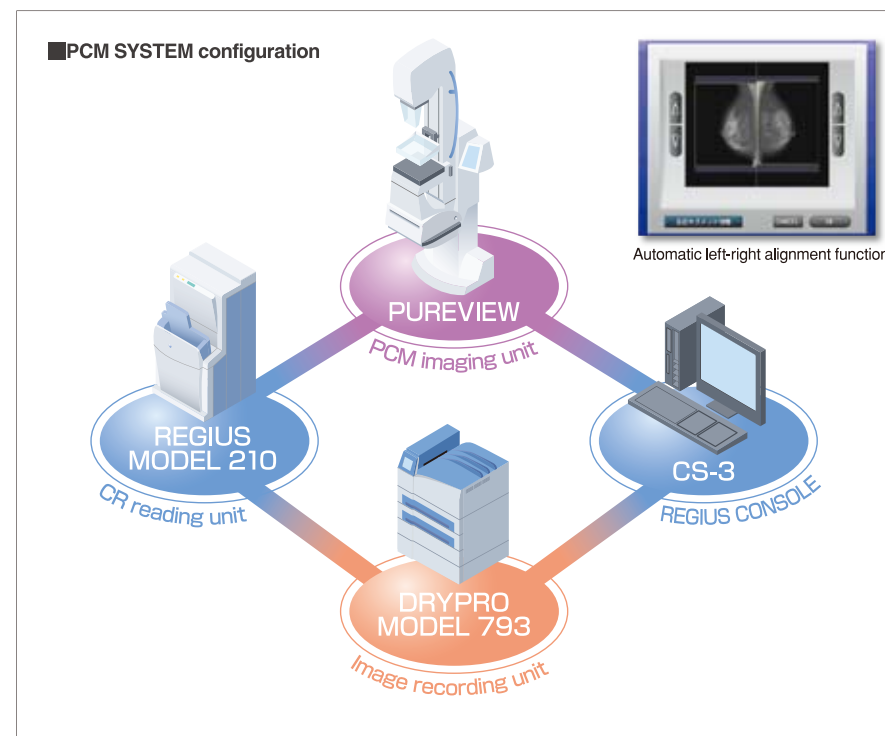
Cassette for mammography   Cassette for pediatric use
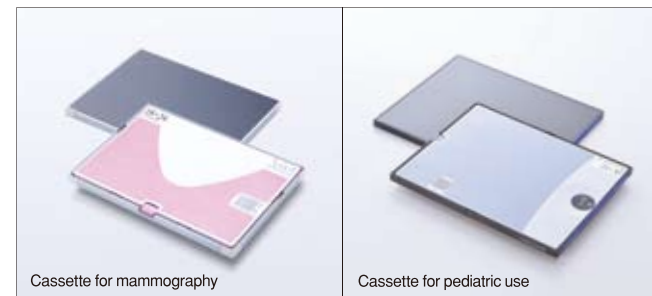
Optimum read function for different body parts

In addition to the 175 and 87.5μm read capability, REGIUS MODEL 210 supports 43.75μm* read function for mammography and 87.5μm read function for pediatric use. In mammography where recognition of subtle pathological changes is essential, highly valuable images can be achieved based on a vast amount of information.

CS-3 | 87.5/175μm — General Examination | 87.5μm — Pediatric Examination | 43.75μm — Mammography

Sampling pitch of 43.75μm* for digital mammography reading.

PCM SYSTEM configuration

PUREVIEW — PCM imaging unit

Automatic left-right alignment function

REGIUS MODEL 210 — CR reading unit

CS-3 — REGIUS CONSOLE

DRYPRO MODEL 793 — Image recording unit

Mammography system PCM SYSTEM

PCM SYSTEM is the world's first mammography system utilizing phase contrast technology. Ultrahigh density imaging data are obtained by a half-cut size cassette for PCM and the 43.75μm* read function. Highest-quality images with excellent sharpness and granularity are produced through the combination of film output to the original size and the use of highest-concentration 4.0 film.
Left and right breast images are displayed after vertical adjustment by automatic left-right alignment function.
Fine vertical positioning can also be manually achieved on the screen.

★ Screen design may be subject to change without prior notice for the purpose of performance improvement.

※ Option license

S P E C I F I C A T I O N S

Direct Digitizer REGIUS MODEL210

■ Exposure size
14"✕17" / 14"✕14" / 11"✕14" / 10"✕12" / 8"✕10" /
18✕24 cm / 24✕30 cm / 15✕30 cm and others

■ Sampling Pitch
3Types : 87.5 / 175 and 43.75μm※ for Mammography

■ Maximum Resolution
4020✕4892 (14"✕17" / 87.5μm)
5440✕6776 (24✕30cm / 43.75μm / Mammography)
7080✕9480 (14"✕17" / 43.75μm / PCM)

■ Digital Gradation Level
4096 levels (12bit)

■ Processing Capability
approx. 100 plates / hour (14"✕14" / 175μm)

■ Cassette Feed/Load Time or Cassette Cycle Time
approx. 35 seconds (14"✕14" / 175μm)

■ Slots
Insert✕1 (plus 1 stack)
Eject✕1 (4-stack)

■ Outer Dimensions/Weight
W580✕D580✕H1230mm/approx. 170kg
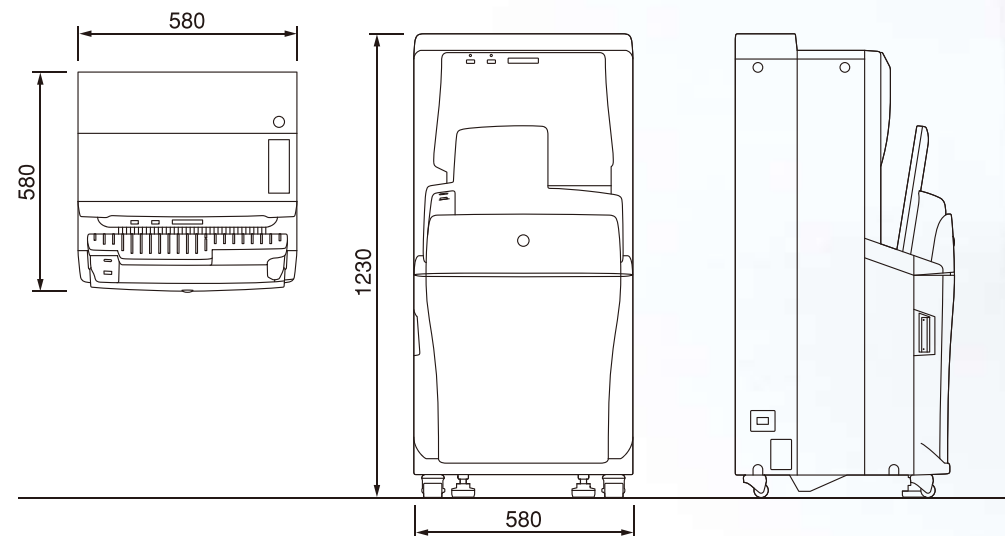
■ Power Consumption
AC100/115/120/200/220/230/240V ±10%
50/60Hz approx. 1.1kW

■ Operating Conditions
Temperature : 15-30℃
Humidity : 35-80%RH (no condensation)

※ Option license

REGIUS MODEL210 Outer Dimensions

580
580
1230
580

Unit : mm 1/20 scaled

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 190/210 16units and FlexDR C30 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 Console CS-2

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

■ Image Output
・Maximum
Host : 2ch for normal, 1ch for backup
Printer : 1ch for normal, 1ch for backup
・CS-2 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)

■ Automatic Image Processing Function
Automatic Body Part Recognition
Automatic Processing Parameter Study

■ Maximum Connection
REGIUS 190/210 2units

■ Output Format
1✕1, 2✕1, 1✕2, 2✕2

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

★Specifications are subject to change without prior notice.