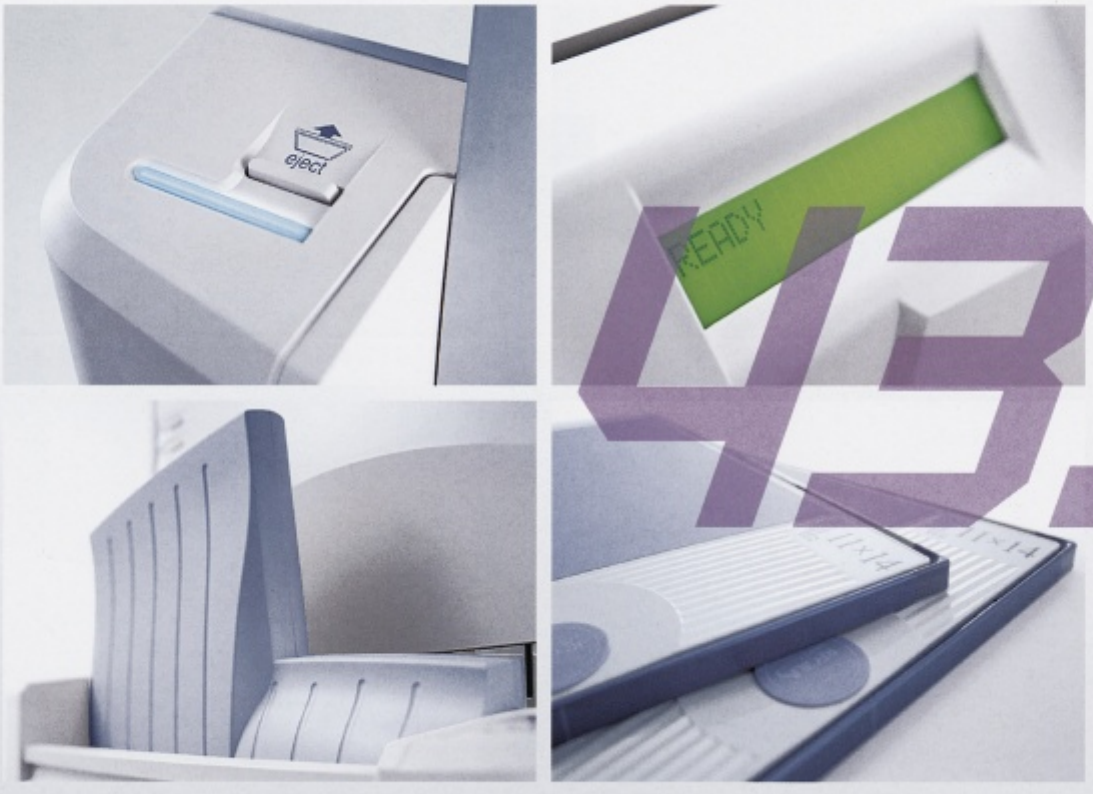
KONICA MINOLTA

DIRECT DIGITIZER

REGIUS MODEL 190

The essentials of imaging

Succeeding the "Ultimate Resource Sharing System"
concept introduced in REGIUS MODEL 170,
the new REGIUS MODEL 190 features a new 43.75μm read function
for mammography, the finest in the world.
The REGIUS Console has also been enhanced with new functions
to provide more powerful tools.
Introducing the New REGIUS, even easier to use,
even more refined.



REGIUS MODEL 190


REGIUS
MODEL 190
KONICA MINOLTA

A new Compact, high-performance design.

Utilizing a unique dual bay design, the high speed reader of REGIUS Model 190 processes up to 90 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.

The "Ultimate Resource Sharing" concept enabl of the ideal workflow in any scene of the medi

2ch slot with independent insert / eject simplifies operation.

In this uniquely innovative design, the entire cassette is loaded into the front slot and ejected out of the rear slot. This helps make the examination handling process exceptionally smooth and efficient.

43.75μm Read Function (option)

In addition to the 175 and 87.5μm read capability, REGIUS MODEL 190 is capable of supporting a new 43.75μm read function for mammography. This function is invaluable for producing diagnostic quality for mammography images, where recognition of subtle pathological changes is essential.

Featuring a new cassette size to provide the ideal examination environment.

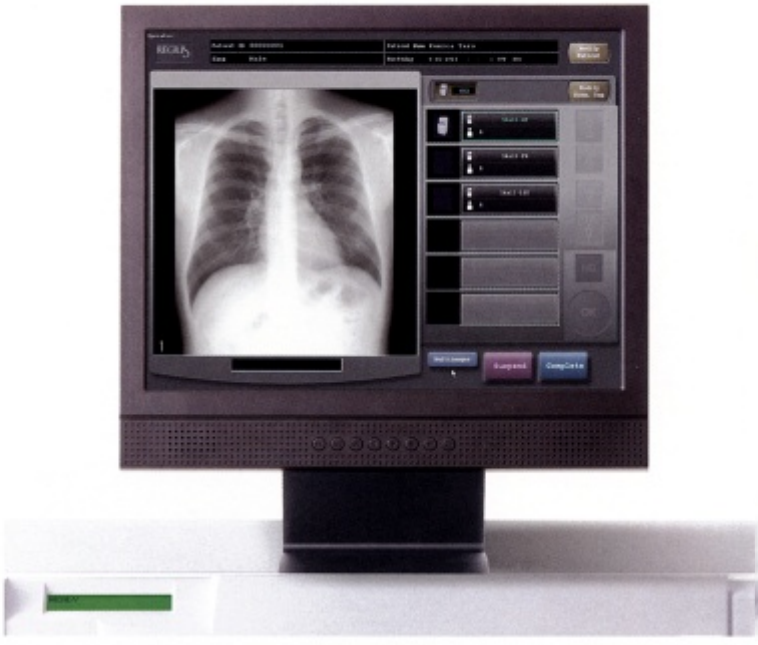
In addition to the world's first 11"×14" size featured in REGIUS MODEL 170, the new line-up available on REGIUS MODEL 190 includes the 15×30cm size to provide even greater examination efficiency.

es realization
cal institute.

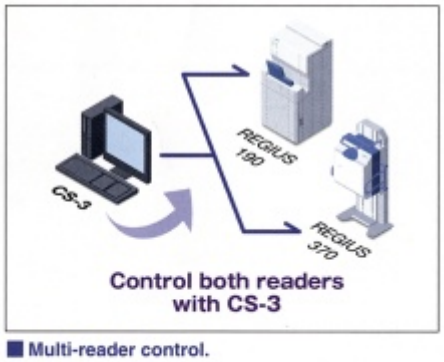
ODEL 190

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.

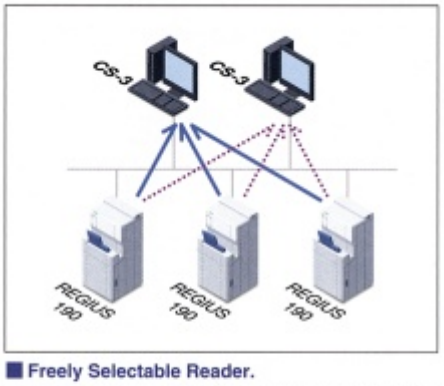


Choose the Console for



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.



Freely Selectable Reader.

Images are always displayed on the CS-3 where the plate is registered, regardless of which the reader unit 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

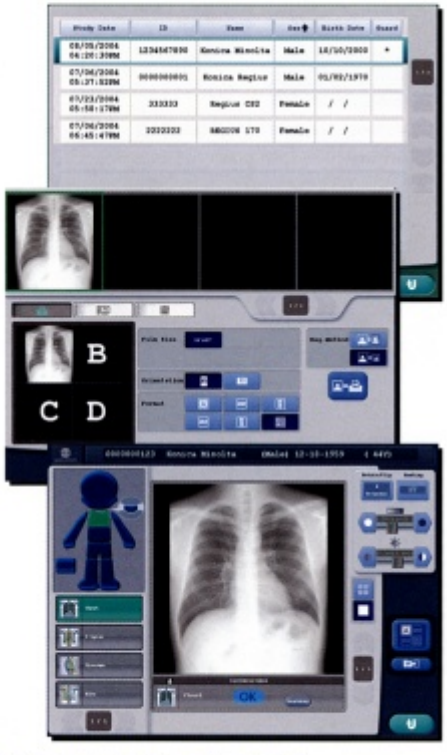
User Tool

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.

REGIUS CONSOLE CS-2

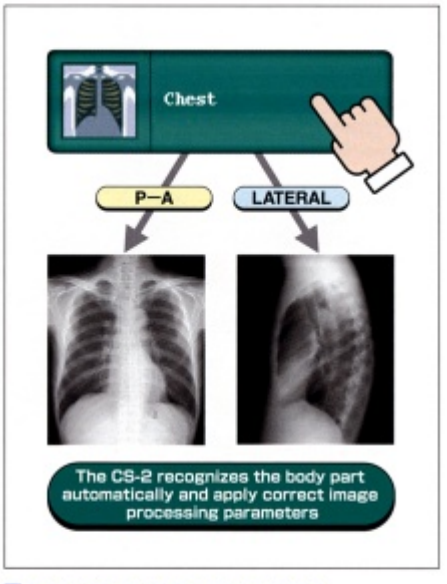
The CS-2 console used for the REGIUS Series is designed to provide the user with even greater ease and simplicity of operation. With the aim of offering a console that can be operated by anyone immediately after installation, only the most essential functions are incorporated into the CS-2 user interface.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

your Ideal Environment



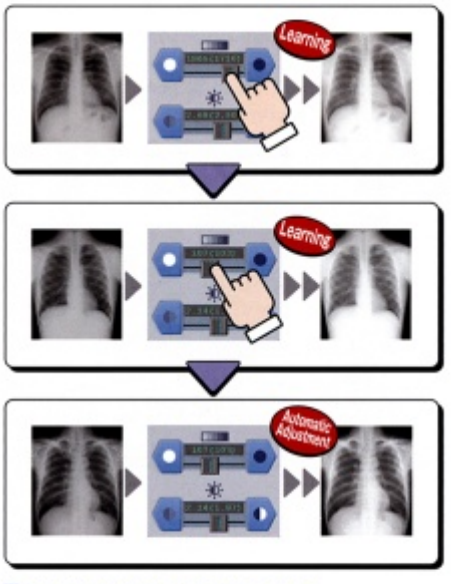
■ **Easy User Interface (Easy GUI)**

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.



■ **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.

CONSOLE

SYSTEM

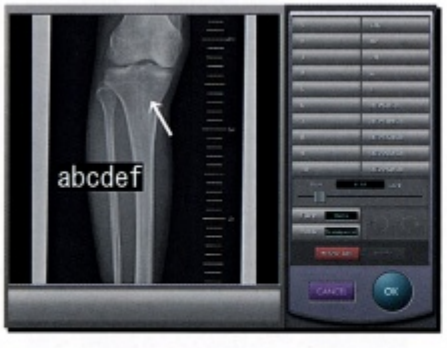
Expanding REGIUS Applications (Additional

■ Stitching Function (option)

This function joins together images that have been exposed using dedicated REGIUS long length cassettes.

■ Annotation

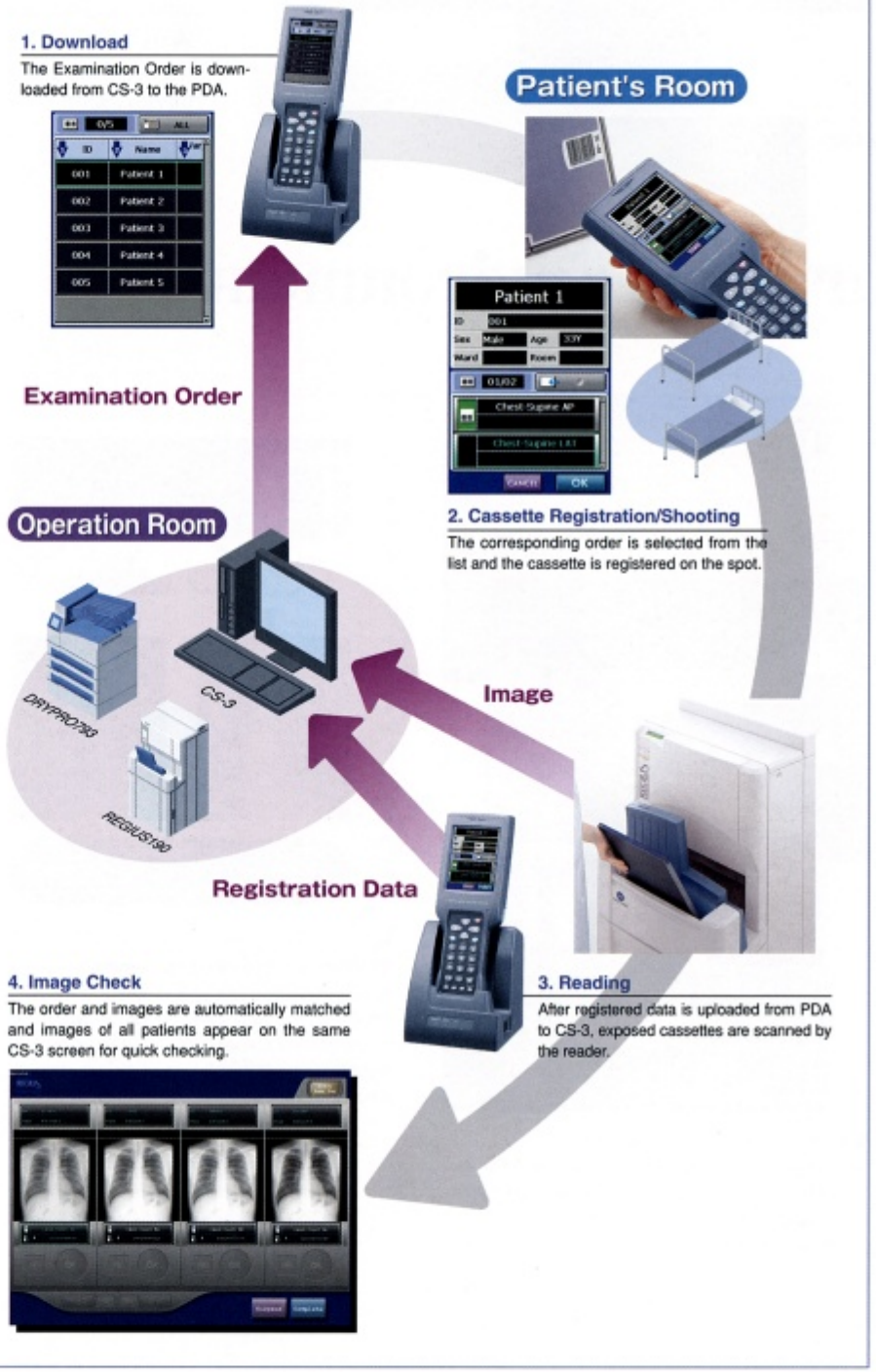
This function allows the user to create free text annotations and to place them anywhere on the image. The annotations are saved as part of the image for printing or DICOM storage.



■ Data Analysis Function (option)

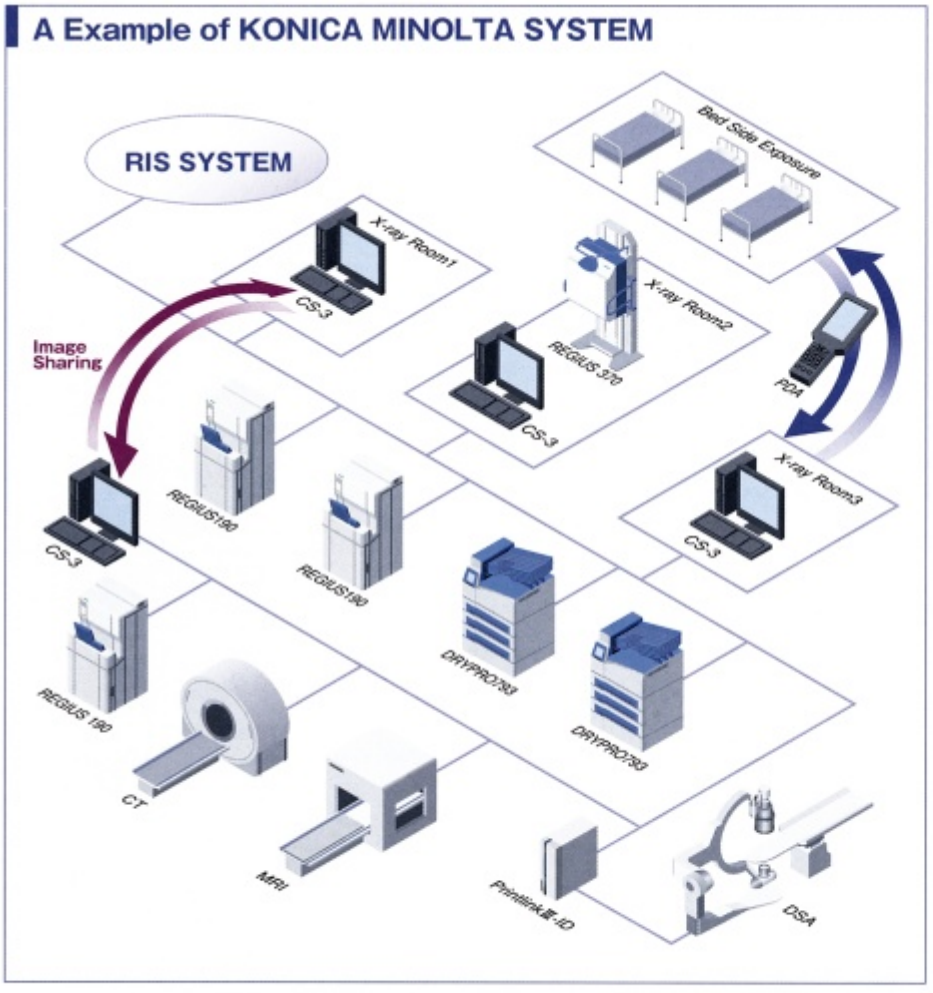
This option stores and tracks rejected images with user customized reasons. It provides statistics for exposure counts, reject rates, S value and other system performance data, making it a valuable tool for day to day management.

PORTABLE SYSTEM

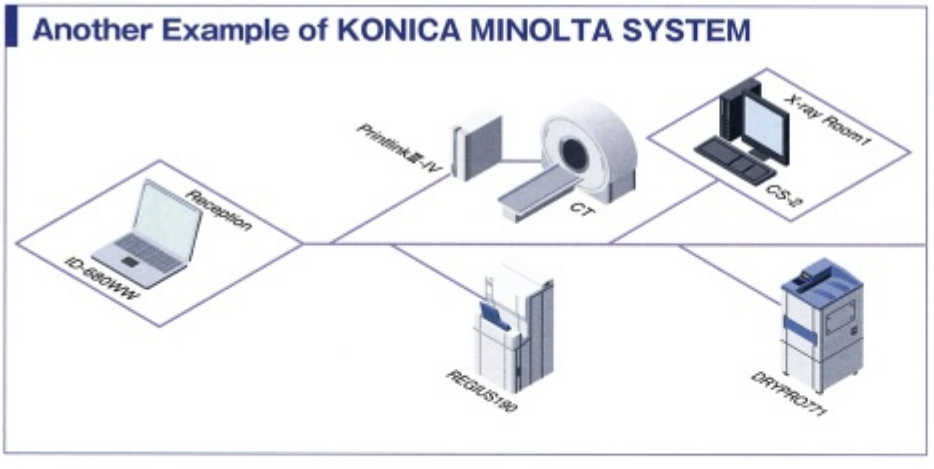


New Functions)

A Example of KONICA MINOLTA SYSTEM



Another 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.

■Patient Data Registration Function

As well as previous input from CS-3 and the search function from the RIS system, a new patient data registration function is furnished.

・**ID-680WW (Option) :** Used as the reception terminal. Input data is displayed in sequence on CS-2/3. A server function is also provided to enable creation of a patient database.

Once the patient data is registered, it may be accessed from any CS-2/3.

SPECIFICA

Direct Digitizer REGIUS MODEL 190 (DD-941)

■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. 90 plates / hour (14"×14" / 175μm)

■Cassette Feed / Load Time or Cassette Cycle Time
approx.40 seconds (14"×14" / 175μm)

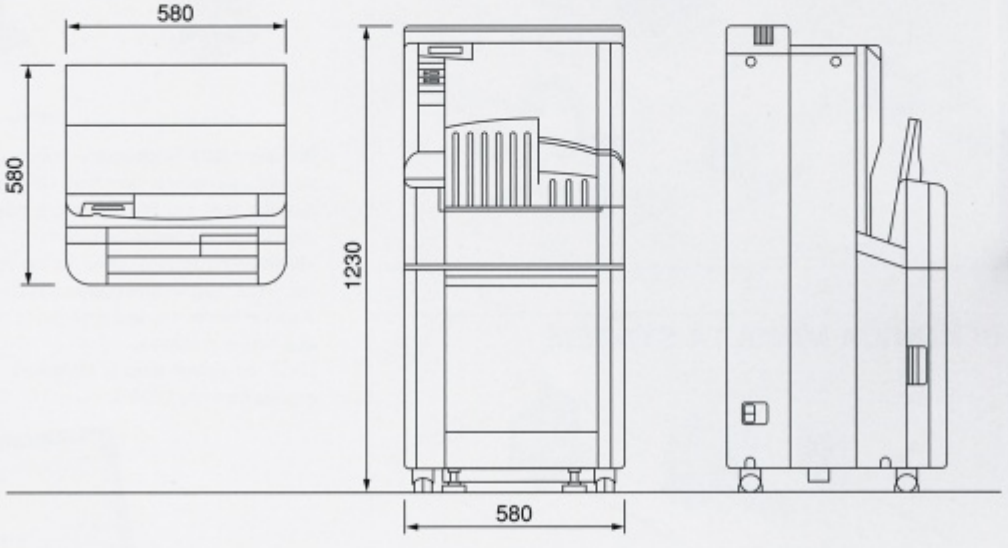
■Slots
Insert×1 (plus 1 stack)
Eject×1 (4-stack)

■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 : 40-80%RH (no condensation)

REGIUS MODEL 190 Outer Dimensions



Unit: mm 1/20 scaled

TIONS

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 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 170/190 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.

REGIUS
MODEL 190

KONICA MINOLTA

KONICA MINOLTA MEDICAL & GRAPHIC, INC.

Shinjuku Nomura Building No.26-2, Nishishinjuku 1-chome, Shinjuku-ku, Tokyo 163-0512, Japan.

Distributed by :

0508U05②