GE Healthcare

Discovery* RF180

PRODUCT DATA SHEET

Remote X-Ray Imaging R&F System

System Overview

One system designed for all.

Flexible, precise, and low dose, the Discovery RF180 is a powerful remote imaging system that fosters great diagnostic certainty, all from the first image. Simple and intuitive, it provides a streamlined clinical workflow optimized for quality-infused value-based care. It's also one of the only systems that can conduct a wide variety of exams, including tomosynthesis and pasting, helping ensure unprecedented performance, uptime, and fast ROI.

Main features

- Table-top height adjustable
- Source Image Distance (SID) up to 180 cm (71")
- Patented autofocusing grid
- Total patient accessibility with open design rear access
- Maximum patient's weight with full movements 266 kg (586 lbs)
- Innovative table joysticks controls
- Smart digital system with multi touch screen display
- Radiography and fluoroscopy 43 x 43 cm digital detector (17 x 17")
- Full DICOM functionality
- Advanced Applications available
- Upgradeable with advanced applications

Main applications

- Gastroenterology
- Skeleton
- Thorax and lungs
- Pediatrics
- Urology and gynecology
- Emergency/traumatology

System Features

All about easy. Your day streamlined.

Serve a high patient volume, optimize the patient experience, and help deliver the best care possible with fast and streamlined workflow. Intuitive touchscreen user interface and AutoRF simplify exam set-up with just a few clicks and less need to physically move equipment. Large, elevating easy-access table with touch controls accommodates a variety of patient sizes and ages and enables easy positioning. Features true rear accessibility to facilitate patient transfer and radiologist approach.

Exam table

90/90 universal remote system table with elevating movement independent from the table tilting and designed for 43 x 43 cm (17 x 17") dynamic flat panel. Minimum table height of only 47cm. Single suspended patient tabletop with FULL rear access to the patient that simplifies the transfer from/to the stretcher, ensures immediate intervention and less operator's physical effort. X-ray tube/detector support with maximum longitudinal travel, coupled with longitudinal motorized table movements, yield patient coverage up to 305 cm.

X-ray tube/detector speed adjustable in continuous mode by the console control joystick. Movement also controlled by fixed speed from the frontal detector support console.

Exams on stretchered patient

Radiological examinations can be achieved outside the table-top and on stretchered patient.

Operator interface

Main contact points between operator and system.

Remote console

- Innovative user-friendly table control console
- Control console with joysticks and stop push button to assist the operator in the most suitable table positioning

Smart and highly innovative digital system

- Smart integrated 23-inch monitor touch screen display
- Generator, table, and digital system controls are integrated in the monitor display.
- Multi touch gesture to optimize the workflow - easy to customize

The system stores acquisition, processing, and visualization parameters related to anatomic part and patient size.
This means single-screen control of the total examination, avoiding additional system interactions.

Post-processing functions are available to modify the images and simplify its management.

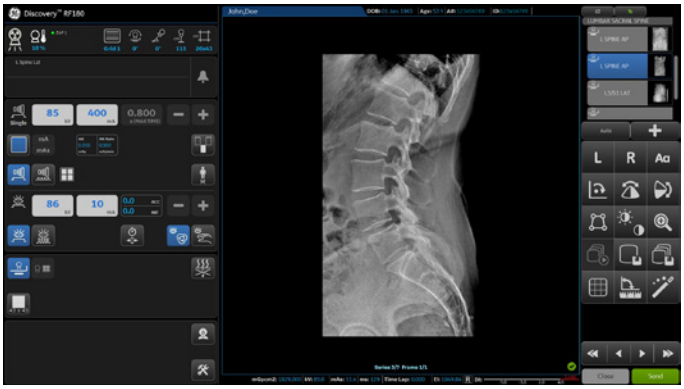


Table integrated keyboard

- Table movements control
- X-ray tube assembly movement control
- X-ray collimator beam control
- Emergency push stop

Lead free collimator with touch screen display

- Touchscreen interface display with collimator controls integrated.
- Table and X-ray tube assembly movement controls
- Touch screen collimator display
- LED control, blades opening/closing control; Source Image Distance (SID) control (step less adjustable), automatic/manual control. Additional filtration
- Key button screen change
- Table movement controls: elevation, transversal, longitudinal patient table top movements
- X-ray tube assembly
- Tube inclination angle
- Orthogonal X-ray tube positioning

Auto RF Features

Suite of features to further simplify your workflow includes:

Auto-protocol assist

System will automatically transition directly to the Acquire screen when the protocol code downloaded from the HIS/ RIS (automatically performed with worklist refresh) matches the exam code contained in the protocol database. This tool eliminates the user steps required to select patient exam types and initiate an exam.

Auto positioning

The table automatically reaches a pre-set anatomical position if the auto-positioning mode is enabled by the service team during in-stallation.

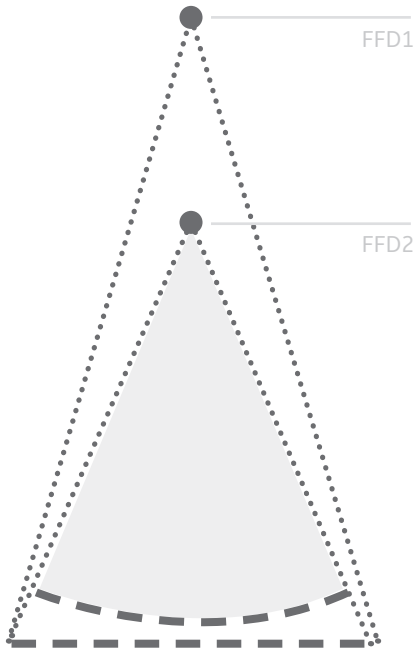
The available positions are: automatic table tilts, X-ray tube drive position, longitudinal detector position, patient table-top lateral position, source image distance SID, collimation and grid parameters.

Auto field of view

Auto Field of View enables the user to pre-define the collimation size on an individual view basis.

Auto focusing grid

Grid with an exclusive autofocusing device that automatically set the correct grid focalization according to the selected SID.
Easy grid removing to allow dose reduction.



Auto image processing

High-definition images display optimized within a short time.
In acquisition sequence, real-time display preview format. After acquisition, automatic final format images availability.

Compressor device (optional function)

Compressor device with motorized parking.
Mechanical and electrical safety (double safety).

All about confidence – Diagnostic Benefits

This intuitive, powerful imaging tool also helps to deliver great diagnostic certainty. It has been reimagined with the latest premium FPD low-dose technology, specific pediatric features and radiation-free collimation and positioning to minimize dose. With the ability to perform a wide range of exams, and advanced apps like DSA, tomosynthesis and auto image paste the Discovery RF180 is designed to deliver fast, high-quality images.

Tomographic technique

The remote-controlled table performs high level tomographic exams. The digital control assures precision with four different angles, increasing and decreasing automatic cutting plane.

Auto image paste (optional function)

The auto image paste function is an optional module of the table system that involves the automatic acquisition and recomposition of a set of radiography images. The pasted image has all the source pixels; it can be viewed on the monitor, processed, printed or sent via network by usual digital image system functions. The system includes the spine and leg automatic reconstruction with patient lying or standing. The operator can program the images reconstruction with selectable length of 60 – 90 –120 cm (24 – 35 – 47”).

Tomosynthesis (optional function)

The system offers the possibility of a high innovative diagnostics examination in the medical field: "tomosynthesis". The application range vary from chest, abdomen and orthopedics examination. The tomosynthesis function acquires images that allow the analysis of an entire volume using a series of low dose rapid exposures.

Tomosynthesis involves a series of x-ray exposures during a single tomographic sweep with a fixed image receptor; the system then reconstructs the data to visualize multiple level planes (slices) from the surface of the image receptor up through the imaged anatomy. It removes overlapping/overlying structures and enhances the conspicuity of anatomy in the different slices. Thanks to the innovative approach in image acquisition, it is possible to achieve very high-quality images.

Digital subtraction angiography (DSA) (optional function)

The DSA option gives the following possibilities:
- Real-time acquisition images in subtract mode.
- Possibilities to program up to six different phases, each phase can be set timing and acquisition rate.
- Road-mapping function with maximum opacity function and subtraction.
- 8 reference images selectable on dedicated monitor (reference monitor).
- Review runs sequence in cine loop mode.
- Easy change of mask image in post-processing mode with direct result viewing.
- Calibration measurement directly on catheter.
- Percentage stenosis calculation.

Performance amplified – Maximize room utilization

Boost uptime and patient volume to accelerate ROI with an all-in-one system that supports a wide range of examinations. Designed to keep your fluoroscopy department busy, the Discovery RF180 can perform well beyond simple radiography and fluoroscopy. Your system utilization is optimized by the following features:

- Variable SID with maximum 180 cm permits chest exams with no additional equipment
- One of the few systems to accommodate bariatric exams
- Accessible equipment for mobility-impaired patients, form pediatric to geriatric
- Extended movements enable standing lower limb exams without need for patient to climb
- Supports a wide variety of advanced exams (tomosynthesis, auto image paste, DSA)
- Remote service capabilities to quickly identify problems and resolve issues

EXAM TABLE	
Tilting	Motorized from + 90° to – 90°
Tilting speed	Variable, continuous from 0 to 5°/s

PATIENT TABLETOP	
Dimensions	246 x 80 cm (97 x 31”)
Radio-transparent area	237 x 57 cm (93 x 22”)
Material	Carbon fiber
Patient tabletop type	Flat or Concave (upon request)
Patient tabletop movements type	With longitudinal travel
Minimum floor distance	From 47.3 cm to 100 cm (18.6 to 39,4”)
Inherent filtration	0.5 mm (0.019”) Al/eq a 100 kVp
Maximum patient's weight	266 kg – 586 lbs (323 kg – 712 lbs with limitations)
Vertical travel speed	Step less from 0 to 45 mm (2”)/s
Transversal motorized travel	±17,5 cm (7”)
Lateral travel speed	Step less from 0 to 25 mm (1.18”)/s

Longitudinal travel	±50 cm (20”)
Longitudinal travel speed	45 mm (2.4”)/s
Maximum tabletop rear access distance	52.5 cm (20.5”) max

X-RAY TUBE ASSEMBLY	
Longitudinal motorized travel (X-ray tube only)	195 cm (77”)
Longitudinal motorized travel X-ray tube/ detector	162 cm (64”)
Longitudinal speed X-ray tube assembly	Motorized movement. Step less from 0 to 150 mm (6”)/s
X-ray beam assembly angulations	± 40°
Focus / detector distance	From 115 to 180 cm (45 to 71”) step less, motorized
Focus/floor distance (Tilt +90°)	From 40.5 to 226.5 cm (15.9 to 88.9”)
X-ray tube rotation movement	90°/180° manual movement

COMPRESSION CONE (OPTION)	
Compression device	Motorized compressor cone with double safety system (mechanical and electrical)

TOMOGRAPHY	
Stratigraphy type	Linear tomography in any tilting table angle
Focus/film distance	115 cm (45”)
Layer cut adjustment	From 0 to 300 mm (0 to 12”) to with millimetric adjustment
Pre-programmed modes	Automatic increment/decrement of the layer cut to be set by the operator before starting the tomographic technique

AUTOMATIC COLLIMATOR WITH TOUCH SCREEN DISPLAY	
Collimator type	Motorized with square field limitation device
Lamp type simulation	Led lamp 7 W
Lighting average (IEC 601.1.3)	> 200 lux a FFD = 100 cm (39”)
Fixed filter	0.5 mm Al (0.019”)
Optional additional filters	1 mm Al + 0.1 mm Cu / 1 mm Al + 0.2 mm Cu / 2 mm Al + 0.3 mm Cu

DIGITAL IMAGE PROCESSOR	
Composition	Processor unit for digital image processing Main Controller for X ray synchronization and measure of the X ray dose when the AEC is selected PU device, for detector connection and image acquisition
Operating system	Microsoft Windows 7
Connection net	
Speed	10/100/1000 Mbit/s (auto)
Protocol	TCP/IP
IP address	customizable in 4 bytes
IP mask	customizable in 4 bytes

DETECTOR		
	Pixium RF4343	**Pixium RF4343FL**
Type	Amorphous silicon	
Technology	Caesium Iodide	
Matrix size	2880 x 2880 pixel	
Dynamic range – linear response	16 bits	
Pixel pitch	148 µm	
Acquisition area	Nominal: 43 x 43 cm (17 X 17”) Zoom 1: 30 x 30 cm (12 x 12“) Zoom 2: 20 x 20 cm (8 x 8”) Zoom 3: 15 x 15 cm (6 x 6”)	

Maximum acquisition rate		
Continuous fluoroscopy	30 img/s	20 img/s
Pulsed fluoroscopy	15 img/s	12 img/s
Spatial resolution	3.4 lp/mm	
DQE	65% (@ 0 lp/mm)	
MTF @ 1 lp/mm	63%	55%
MTF @ 2 lp/mm	32%	25%
Cover filtration	< 0.3 mm (0.12”) Al/eq a 100 kVp)	
Grid features	80 l/cm, 12:1 carbon fiber	
Grid focalization	From 115 to 180 cm (45 to 71”) with " AUTOFOCUSING GRID" device	
Grid removal	Manual removal	

Continuous digital fluoroscopy			
Size	**Matrix**	**Frequency HIRIS RF4343**	**Frequency HIRIS RF4343FL**
43 x 43 cm (17 x 17”)	960 x 960 x 16 bit	18 img/s	16 img/s
30 x 30 cm (12 x 12”)	1024 x 1024 x 16 bit	15 img/s	12 img/s
20 x 20 cm (8 x 8”)	672 x 672 x 16 bit	30 img/s	20 img/s
15 x 15 cm (6 x6”)	1024 x 1024 x 16 bit	15 img/s	6 img/s
Last Image Hold			
Possibility to record a fluoro loop or LIH			
Noise reduction with “motion sensitivity”			
Multi step edge enhancement			
Digital image inversion (Horizontal/Vertical)			

Pulsed digital fluoroscopy			
Size	**Matrix**	**Frequency HIRIS RF4343**	**Frequency HIRIS RF4343FL**
43 x 43 cm (17 x 17”)	960 x 960 x 16 bit	15 img/s max (1)	12 img/s max (1)
30 x 30 cm (12 x 12”)	1024 x 1024 x 16 bit	15 img/s max (1)	12 img/s max (1)
20 x 20 cm (8 x 8”)	672 x 672 x 16 bit	15 img/s max (1)	12 img/s max (1)
15 x 15 cm (6 x6”)	1024 x 1024 x 16 bit	15 img/s max (1)	6 img/s max (1)
(1) Adjustable from 1 img/s			
Last Image Hold			
Possibility to record a fluoro loop or LIH			
Noise reduction with “motion sensitivity”			
Multi step edge enhancement			
Digital image inversion (Horizontal/Vertical)			

Digital radiography			
Size	**Matrix**	**Frequency HIRIS RF4343**	**Frequency HIRIS RF4343FL**
43 x 43 cm (17 x 17”)	2880 x 2880 x 16 bit	3 img/s max (1)	2 img/s max (1)
43 x 43 cm (17 x 17”)	1440 x 1440 x 16 bit	8 img/s max (2)	6 img/s max (2)
(1) HR mode – high resolution (2) HS mode – high speed			
Direct hard disk image saving, Multi-step edge enhancement, H/V Digital image inversion			

Anatomical program	Library up to 99 parts of the body, each one with 99 projections performed with seven different patient types and for a total of 68.607 ways of using the system. The expositions parameters (kV, mA automatic exposure meter dominant) and the irradiated field can be changed by the operator during the examination.

Automatic exposure	Completed with measure chamber at three dominant exposure meter which are selectable independently by the operator or during anatomical programming. Ability to link a predefined dose value between 0,5 uGy and 5,0 uGy (at the detector level) at each single anatomical program in function of the patient size (seven sizes). Generator automatic kV and mA set values. Exposures time fixed by the automatic exposure meter for constantly maintaining the operator pre-set dose and based on the exam type selection. Generator pulsed fluoroscopy dynamic kV value variation to optimize the image for each acquisition rate.
Exams documentations management	Each acquired image has indicated: - Patient name - Label number - Birth date - Date and time of the exam execution - Institute name - Radiographic parameters (kV, mAs), - Dose (mGy cm2) Display images parameters and reference scale. Archives querying and sorting by exam date or patient name. Possibility to define the default output (printers, writer/ burner CD/DVD, workstation or PACS). Multi-Store. Indication on monitor of the exam sent to PACS or printer. Management of network printers and film optimization with several reproduction modalities.
Real-time functions processing	Algorithms studied for each exam type to optimize image processing and display. High definition images display optimized within a short time. In acquisition sequence, real-time display preview format. After acquisition, automatic final format images availability. Application of post-processing algorithms without altering the source data.
Anatomic Tissue Harmonization (ATH) & Fluoro Tissue Harmonization (FTH)	Radiographic (ATH) and fluoroscopic (FTH) software real time images processing to improve the acquired images with contrast increase, brightness and noise reduction. Increasing of the dynamic range for the acquired images. Adjustable anatomical program parameters and data customization during installation and in function of operator needs.

Post-processing functions	- Single image display or multi-image simultaneously displayed - Automatic contrast and brightness adjustment - Window Level and gamma adjustment - Zoom with variable enlargement 1:3 - Grey Scale Inversion - H&V image reverse - 90° image rotation and free rotation - SHARP (edges) and SMOOTH (faded edges) spatial filters, kernel size, and weight of the applied filter - Electronic shutters (square, and quadrilateral) - Virtual collimation (open/close the collimator controls on LIH to get the required result without X-ray emission) - Virtual scan (optional): this function allows patient centering without X-ray emission (this function uses the LIH in fluoroscopy or pulsed fluoroscopy that can be shifted on the monitor without X-rays emission). - Cine-loop of dynamic images sequence with different speed - Text and marker overlay - Graphic calculation of angles and distances (mm/pixel) - Grid overlay - COBB angle and orthopedic measurement (option) - Image export in RAW, JPEG and MP4 - Reject analysis (flag the image currently shown as rejected and then specify the reason for its rejection)
Operator interface	Table joysticks control console. Digital system with multi touchscreen controls integrated: • generator and table management • images display • post-processing images management • images management • patient data management • Work list communication, RIS-PACS system printers, writer/burner CD/DVD • fluoro loop, possibility to record a loop after fluoroscopy • User Login Management (Max 50 Users) • 7 selectable Patient sizes The anatomical mode program can be checked by the operator through the image processor monitor and through the work list.

Connectivity	Ethernet TCP/IP network interface via DICOM protocol **STANDARD DICOM** DICOM Store DICOM Send service DICOM Print class DICOM work list DICOM MPPS **OPTIONAL DICOM** DICOM storage commitment DICOM query/retrieve DICOM DOSE SR DICOM Media interchange (CD/DVD)
Supported Monitors	Control room monitor Optional monitors connection
Optional special procedures	**IMAGE RECONSTUCTION (AUTO IMAGE PASTE)** Automatic acquisition and re-composition of a set of radiography images (each time a different section of the patient is irradiated until a complete large format image is obtained). Typically for exams concerning the spine or legs. **TOMOSYNTHESIS** Digital image processing function producing multiple slices starting from a single image set acquired through tomography with limited rotation angles. **ANGIOGRAPHY (DSA)** • Mask shift • Image subtraction • Pixel shift • Vascular tracing • Land marking • QA analysis

MONITOR	
Monitor type and dimension	23” color monitor
Native resolution	1920x1080
Viewing angle	178° H/V
LCD Technology	260 cd/m² (typical)
Contrast	1000:1 typ.
Monitor weight	6.6 Kg (14.5 lbs)
Monitor dimension (mm)	556.7 x 143.9-360.7 x 89-401.3 (22x5.7-14 x 3.5-15.8”)

GENERATOR			
Type	**65 R/F**		**80 R/F**
Frequency	High frequency Output – (maximum 400 kHz)		
Power	65 kW		80 kW
Output parameters	G650		G800
	KV	mA	mA
	80	800	1000
	100	630	800
	150	400	500
Starter speed	Anode rotation 3000/9000 rpm		
Line voltage rate	±10%		
Radiography			
kVp Range/Steps	40 - 150 kV in 1 kV increments		
High voltage ripple	<1kV at 110 kV		
mA range/steps (*Rénard) (1 mA/0,1 mA optional steps)	10 – 800 mA * R'10		10 – 1000 mA * R'10
Time range	1.0 to 6300 milliseconds		
mAs Range (no AEC)	0.1 – 1000 mAs/ R'10 *		
Continuous Fluoroscopy			
kVp Range/Steps	40 - 125 kV in 1 kV steps		
High voltage ripple	<1kV at 110 kV 5mA		
mA range/steps	0.5 – 10 mA in 0,1 mA steps		
Pulsed Fluoroscopy			
kVp Range/Steps	40-125 kV in 1 kV steps		
mA Range/steps	5-99 mA in 1 mA steps		

RADIATION SOURCE ASSEMBLY - G292	
Anode type	Rotating anode 3.000/10.000 rpm
Anode material	RTMC
Anode diameter (mm)	102 mm
Anode angle	12°
Maximum tension	150 kV
Focal spots dimension	0,6/1,2 mm
Maximum power to 10.000 rpm	40/100 kW
Maximum power to 3.000 rpm	30/60 kW
Anode heath capacity	445 kJ (600 kHU)
Maximum Anode cooling rate	125 kHU/min (1540 W)
Housing heath capacity	1480 kJ (2000 kHU)
Maximum housing dissipation capacity	445 Watts (600 HU/sec)

OTS - OVERHEAD TUBE SUSPENSION (OPTION)	
Type	Manual
Rails	**Longitudinal x Transversal**
Standard length	441 x 301 cm
Optional length	441 x 361 cm 361 x 301 cm
Transversal Bridge	
Transversal carriage rails travel	354 - 274 cm
Ceiling Stand	
Transversal carriage rails travel	217 - 277 cm
Elements number	5 extruded aluminum
Motorized vertical travel	170 cm
Type of movement	Manual
Balancing method	Motorized at “0 strength”
Adjustment of balancing strength	Automatic

Radiation Source Assembly Support	
X-ray tube rotation	+/- 160° around vertical axis +/- 155° around horizontal axis
Focus/X-ray source axis minimum distance	42,9 cm
Focus/ceiling minimum distance	95,5
Focus/floor minimum distance	33
Rotation movements brakes	Electro mechanics
Ceiling Suspension Control Panel	
Operator interface	Color display touch screen 10,4”
Brakes unblocks	“Capacitive” handle functions
Typical exam room height	295 cm
Manual Collimator	
Collimator type	manual collimator front panel with knobs
Rectangular field coverage	48x48 cm @1m
SID operative	90 ÷ 200 cm
Minimum collimation field	0 x 0 cm
Inherent filtration	2 mmAl/eq
Scattered radiation	<40 mR/h
Manual hardening filters	2 mm Al 1 mm Al + 0.1 mm Cu 1 mm Al + 0.2 mm Cu
Simulation light	Power LED
Lightening average	> 160 lux at FFD = 100 cm
Light field edge contrast ratio	> 4 @SID = 100 cm
X-ray field/light field accuracy	<1% SID
Scale /light field size accuracy	< 2% SID
SID indication accuracy	< 2% SID

Radiation Source Assembly RTM 101	
Type	Type RTM 101 / HS
X-ray tube assembly	Rotating anode 3.000/10.000 rpm
Anode material	Rhenium, Tungsten, Molybdenum
Anode diameter (mm)	102 mm
Anode angle	12,5°
X-Ray tube assembly maximum voltage	150 kV
Focal spots dimension	0,6/1,2 mm
Maximum power to 10.000 rpm	40/100 kW
Maximum power to 3.000 rpm	26/63 kW
Anode heath capacity	400 kHU - 300 kJ
Housing heath capacity	1.280 kJ
Anode dissipation capacity	125 kHU/min - 1000 W
Housing dissipation capacity	370 W (with fan)
Total minimum filtration (housing/X-ray tube/ collimator)	> 2,5 mm Al/eq
INSTALLATION TECHNICAL DATA (OTS) SYSTEM POWER SUPPLY	
Ceiling stand power supply (set during the installation)	115V-230V (± 10%) monophasic
Voltage power supply tolerance	± 10%
Nominal line frequency	50/60 Hz
Line tolerance	± 1 Hz
Standby power	300 VA
Peak power	2.000 VA
Weights And Dimensions	
Ceiling stand extendable elements weights with transversal bridge (including collimator and x-ray tube)	300 Kg*
Ceiling rails weights (longitudinal)	70 Kg*

Thermal Dissipation	
Kalos ceiling suspension	Approx. 1000 kcal/h
* heaviest configuration	

WALL BUCKY STAND (OPTION)	
Model WS	Vertically adjustable
Model WST	Vertically adjustable with tilting device

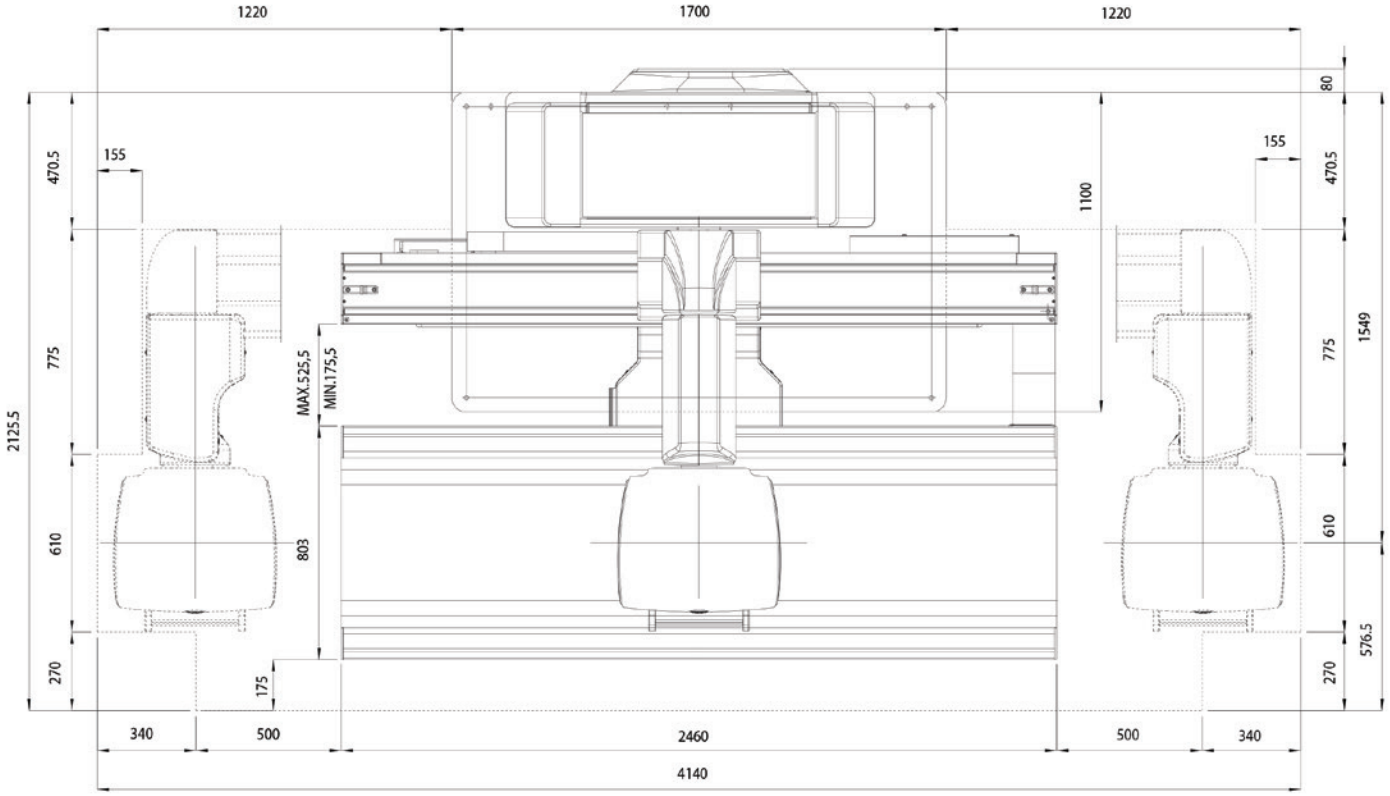
Column structure with floor base and wall fixing.
Bucky for radiographic cassettes up to 35x43 cm (14 x 17") with counter-balanced vertical movement
Complete with grid (R12/L90/F180) and pre-set to receive an automatic exposure meter.
Mechanical locking on all movements.

	WS	WST
Bucky Vertical Travel	151.5 cm (59.65")	140 cm (55.12")
Min distance floor to bucky center vertical position / horizontal position	40 cm (15.75")	37.5 cm (14.76")/ 68.5 cm (26.97")
Max distance floor to bucky center vertical position	191.5 cm (75.39")	177.5 cm (69.88")
Tilting positions	No	Yes, 0°, +90° (with bucky rotation), –20°

WIRELESS DETECTORS (OPTION)		
35 X 43 Wi-Fi Pixium 3543Ez Detector		
	GAD	**CsI**
Technology	Amorphous Silicon	
Scintillator	Gadolinium oxysulphide	Caesium Iodide
Pixel area	35 x 43 cm (14 x 17")	
Matrix size	2400 x 2880 pixel	
Pixel pitch	148 µm	
Data conversion	16 bit	
Spatial resolution	3,4 pl/mm	
DQE	37% typ.	66% typ.

Batteries charger	Yes, up to three batteries simultaneously (two batteries included)
Weight battery included	2.8 kg (6.2 lbs)
24 X 30 Wi-Fi Pixium 2430Ez Detector	
Technology	Amorphous Silicon
Scintillator	Caesium Iodide
Pixel area	24 x 30 cm (9 x 12“)
Matrix size	1560 x 1920 pixel
Pixel pitch	148 µm
Data conversion	16 bit
Spatial resolution	3.4 lp/mm
DQE	66% typ.
Batteries charger	Yes, up to two batteries included
Weight battery included	1.58 kg (2.2 lbs)
INSTALLATION DATA	
System Power Supply	
System power supply	400 V AC, Triphase
Voltage power supply tolerance	± 10%
Nominal line frequency	50/60 Hz
Line frequency tolerance	± 2%
Maximum absorbed power (Gen. 65kW)	Apparent: 95 KVA; Active 65 KW
Maximum absorbed power (Gen. 80kW)	Apparent: 115 kVA; Active 80 kW
Line protection device	Magneto thermal differential 63A
Maximum power line resistance	0.1 ohm
Standby power	2 kVA
Weight And Dimension	
Maximum table layout (w x h x d)	2,460 x 1,770 x 2,010 mm (97 x 70 x 79”)
Table weight	1,380 kg (3,042 lbs)

Control console weight	8 kg (18 lbs)
Collimator weight	14 kg (31 lbs)
Radiation source assembly weight	24 kg (53 lbs)
Generator cabinet	91 kg (200 lbs)
Monitor weight (with support)	6.6 kg (14.5 lbs)
Monitor dimensions (with support)	556.7 x 143.9-360.7 x 89-401.3 (22x5.7-14 x 3.5-15.8”)
Minimum exam room size for full functionality	5,200 x 4,850 mm controls area included (205 x 191”)
Enviromental Conditions In Use	
Operating temperature	From +15 to +35 °C
Humidity	From 30 to 75 % not condensing



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