Рентгенографические системы Diagnost
Технические характеристики

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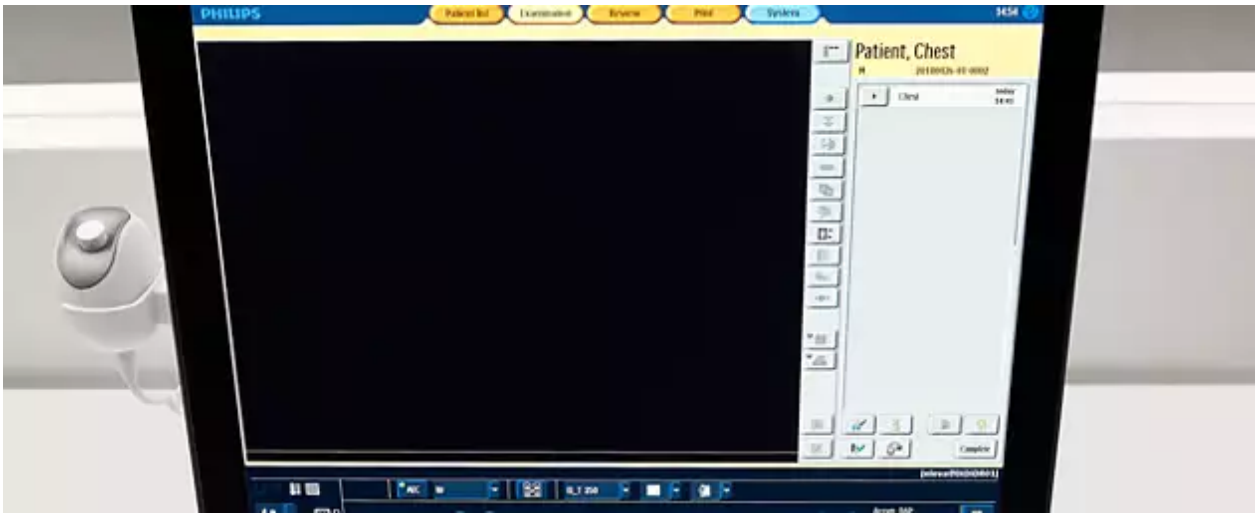
DigitalDiagnost Rel. 4.3

Digital radiography solutions

An X-ray system that meets your institution’s growing patient demands must provide a reliable solution for every situation, while also offering a lower cost of care. The Philips DigitalDiagnost Rel. 4.3 is a proven DR workhorse, with room configurations that support your staff, speed your workflow, and deliver value for your dollar.

Features

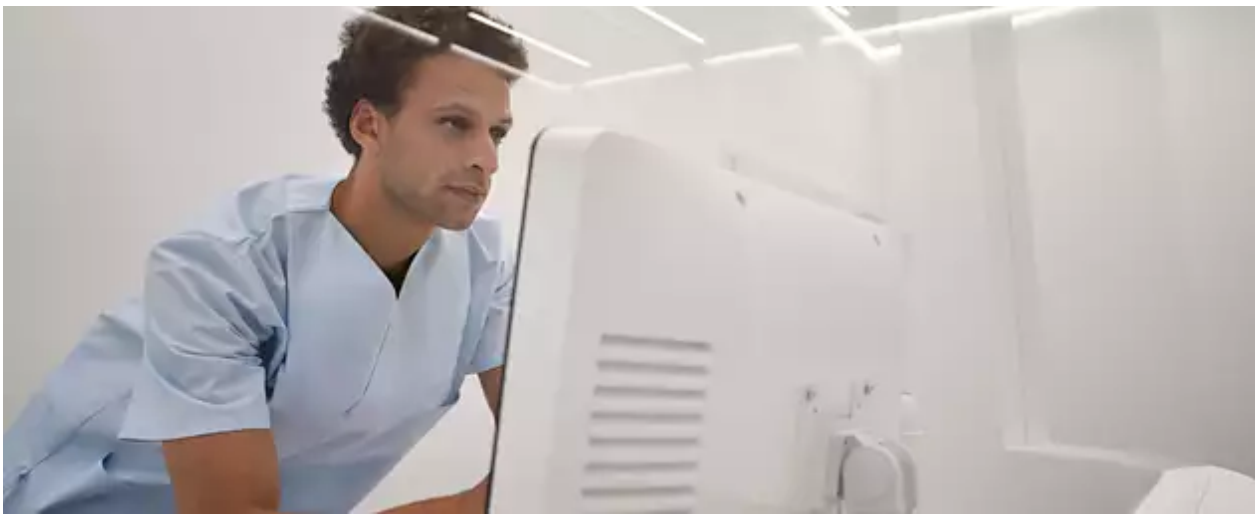


Eleva – the common platform

The premium Eleva Workspot makes workflow continuity and network communication easy. With a common user interface amongst all Philips digital radiography and R&F systems, staff training is fast and the system is easy to use, with a host of smart tools including enhanced exposure settings and immediate image processing.

UNIQUE 2[1] - Next generation image processing

UNIQUE 2 image processing delivers fast, outstanding digital radiography images. It significantly improves image quality like homogeneous black backgrounds, reduced noise, and automatic enhancement of small details.



Latest IT standards

Philips places critical importance on assuring that the DigitalDiagnost Rel. 4.3 is safe, secure and compliant for integration into any hospital network. This includes highlights like the embedded Windows 10 operating system, seamless integration into hospital IT infrastructure and PACS, Data encryption and many more.

Flexible DR Room Motorization

To further improve your workflow efficiency, Comfort Move comes standard on both room configurations and consists of a motorized vertical stand, table and ceiling suspended column including tube tracking, alpha rotation for automatic image stitching and move-to-position.

Specifications

Tube carrier

Ceiling suspension CS	Motorized ceiling suspended tube carrier with four-part telescopic column.
Movements	Longitudinal and transverse
LCD display	Wide 16.5cm (6.5″) LCD information display and control buttons for easy and quick handling
Longitudinal travel	3.44 m (11′ 3.4″)/with rail extensions 6.14 m (20′ 1.7″)
Transverse travel	Standard version 1.5 m (4′ 11″)/Long version 3.22 m (10′ 6.7″)
Vertical travel	1.65 m (5′ 4.1″)

Tables

Height-adjustable table TH	Height-adj. table with a large range of movements and convenient handling.
Tabletop	Floating sandwich-design tabletop with carbon fiber overlay.
Detector	With fixed detector or a SkyPlate in the table tray
Grid	Oscillating or fixed grid
Dimensions	(l x w):240 x 75 cm (94.5” x 29.5”) and optional 240 x 85 cm (94.5” x 33.5”)
X-ray transparent area	173 x 67 cm (68.1” x 26.4”)
Single side suspended table TH-S	TH-S not available for Rel. 4.3
Height of tabletop above floor	TH-S not available for Rel. 4.3
Foot pedal	Foot pedal operation allows close proximity to the patient.
Table base	TH-S not available for Rel. 4.3
Max. patient weight	Static load center 375 kg (826 lbs)
Length of X-ray transparent area	TH-S not available for Rel. 4.3
Height adjustment	51.5 cm to 91.5 cm (20.3" to 36") above floor, motorized adjustment

Angle of detector tilt	Horizontal axis: -20° to +90, motorized tilting
Vertical stand VS	Motorized vertical stand with fixed detector or SkyPlate tray.
Tiltable detector	Optional, tilt angle: –20° to +90°, motorized tilting
Grid	Oscillating or fixed grid. Detector unit can store up to 2 grids.
Exposure control	Five automatic exposure control chambers.
Controls	Two control panels and remote control.
Dimensions	Height: 2.07 m (6’ 7.9“)
Horizontal movement range	Moveable vertical stand not available for Rel. 4.3
Vertical movement of detector unit	30 cm to 1.80 m (11.8” to 5.1”) (central beam)
Vertical movement range	30 cm to 1.80 m (11.8” to 5.1”) (central beam)
Moveable vertical stand VM	Moveable vertical stand not available for Rel. 4.3
Swiveling range of multi-purpose arm	Moveable vertical stand not available for Rel. 4.3
Fixed detector	Integrated into the TH table and vertical stand.
Size	43 cm x 43 cm/ 17"x17"
Resolution	Up to 3.4 lp/mm, 148 µm pixel size
SkyPlate	Large SkyPlate/E 35cm x 43cm/14"x17" Small SkyPlate 24cm x 30cm/10"x12“
Charging	Detector only charges when being placed in battery charger.
Robust design	Guarantees a drop height of 70 cm (28").
Mains voltage	380 V ±10%, 50/60 Hz, 3 phases 400 V ±10%, 50/60 Hz, 3 phases 480 V ±10%, 60 Hz, 3 phases
Nominal power	65 kW or 80 kW

SkyFlow	Scatter correction for a grid-less workflow to save time & X-ray dose.
Philips Computed Radiography (PCR Eleva)	We offer several CR solutions for different departmental set-ups.
Eleva workspot	480 GB SSD/16 GB Ram/ 21" high quality LCD color touch screen.
Software	SkyPlate Sharing/BoneSuppression/Auto. image stitching/Clinical QC/etc.

X-ray tubes	Max. tube voltage of 150 kV 0.6mm focal spot: 33KW 1.2mm focal spot: 100KW
Generators	Nominal power (IEC) of 65 kW or 80 kW.

Maximum voltage	150 kV
Focal spot 0.6 mm	Maximum power 33 kW
Focal spot 1.2 mm	Maximum power 100 kW

Hard drive	480 GB SSD total
RAM storage capacity	16 GB
Monitor	21.3" high quality LCD color touch screen
Maximum calibrated brightness	400 cd/m2 +/- 10 %
CD/DVD drive	24x CD reader/writer 8x DVD reader/writer

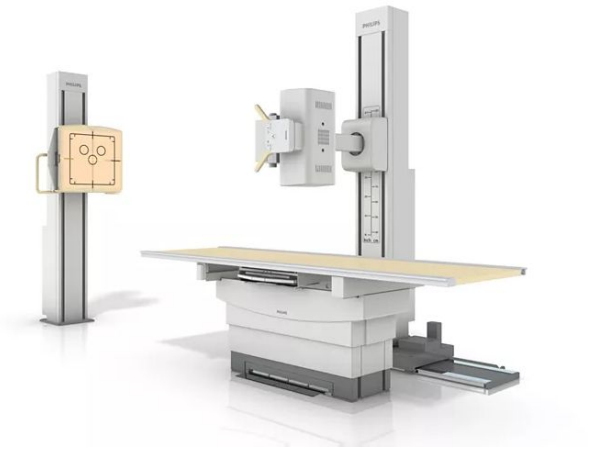
[1] Feature is not available for sale in Greater China region

[2] ClearRead Bone Suppression by Riverain Technologies

Radiography 5000 F — DuraDiagnost Rel 4

Floor-based digital radiography solution

With digital radiography systems that reflect a sensible marriage of function and fiscal responsibility, your patients benefit from fast and smooth examinations. Your facility benefits from a reputation for quality, by offering reliable imaging services based on Philips proven technology.



Features

Productive solutions

As a total DXR solution provider, Philips has the right system for virtually every need. Our DuraDiagnost slips easily into the mix, delivering premium DR images in low acuity settings.

Eleva efficiency

Our unique Eleva workspot has been developed with clinicians to answer the needs of radiology users. It is the same harmonized user interface found on all Philips premium digital radiography systems. The pre-settings and customized user profiles result in more automated workflow. Images are available on screen in just a few seconds.

Lightweight wireless portable detector

Get consistent, high quality digital images with the SkyPlate E or SkyPlate (optional) wireless detector. It uses advanced Cesium Iodide (CsI) detector technology to mirror the imaging capabilities of Philips premium DR systems. The light weight of the detector also sets an industry standard for use wherever you need them – stationary or portable.

Saving time and effort

The counter-balanced components can be quickly and easily moved into position with minimal effort. Flexible movement capabilities and ergonomically designed handles and controls save further time and effort.

Specifications

X-ray generation

High-voltage generator	The converter generator generates high voltage equivalent to DC voltage
Mains voltage	400 V / 480 V (±10%); 50 Hz or 60 Hz, 3-phase
Max. mains resistance at 400 V	0.3 Ohm 0.2 Ohm
Max. mains current at 400 V	112A 134A
Nominal power (IEC)	50 kW 65 kW
Max. tube voltage	150 kV 150 kV
Max. tube current (at 70 kV)	630 mA 928 mA
mAs product	0.4 mAs to 850 mAs 0.4 mAs to 850 mAs
Exposure times	1ms to 4s 1ms to 4s
Generator	50 kW 65 kW

Collimator

Type	Manual, with light field indicator
Timer switch	30 s
Angle of aperture and rotation	±45°

Anode angle	RO1750 - 13° SRO 33100 - 13°
Maximum tube voltage	RO1750 - 150 kV SRO 33100 - 150 kV
Anode heat storage capacity	RO1750 - 220 kJ (300 kHU) SRO 33100 - 220 kJ (300 kHU)
Assembly heat capacity	RO1750 - 1500 kJ (2202.4 kHU) SRO 33100 - 1500 kJ (2202.4 kHU)
Continuous anode input power	RO1750 – 200 W SRO 33100 – 200 W
Two focal spots	RO1750 - 0.6 and 1.2 SRO 33100 - 0.6 and 1.2
Maximum power with focal spot 0.6	RO1750 - 17 kW SRO 33100 - 33 kW
Maximum power with focal spot 1.2	RO1750 - 50 kW SRO 33100 - 100 kW
Minimum anode speed	RO1750 - 3000-3600 revolutions/min. SRO 33100 - 9000-10800 revolutions/min.

Type	Digital wireless flat detector
Scintillator	Cesium Iodide (CsI)
Image matrix size	2,330 x 2,846 pixel
Detector size	35 cm x 43 cm (14" x 17")
Active Area	34.48 cm X 42.12 cm (approx. 13.6" X 16.6")
Pixel size	148 µm
Detector pixels	6.6 Megapixel
A/D conversion (bits)	16 bits
Weight (incl. battery)	2.8 kg (6.2 lb)

Hard disk	480 GB SSD total
RAM storage capacity	16 GB

Weight (incl. battery)	3.1 kg (6.8 lb)
A/D conversion (bits)	16 bits
Detector pixels	5.7 Megapixel
Pixel size	160 µm
Active Area	34.5 cm x 42.5 cm (13.6" x 16.7")
Scintillator	Cesium Iodide (CsI)
Type	Digital wireless flat detector
Image matrix size	2,156 x 2,653 pixel
Detector size	35 cm x 43 cm (14" x 17")

Height	233.25 cm (91.8")
Room height	min. 270 cm (106.3")
Vertical lift maximum	150 cm (59.0")
Central beam minimum upper floor	35 cm (137.8")
Central beam maximum upper floor	185 cm (72.8")
Rotation of tube around vertical axis	-180° to +90°
X-ray tube rotation	-120° to +120°
Source-image distance	Max. 110 cm (43.3") for table and Max. 250 cm (98.4") for wall stand

Pixel size	148 µm
Type	Digital flat Cesium Iodide (CsI) detector
Image matrix size	2,840 x 2,874 pixel
Detector pixels	8.2 Megapixel
Detector size	43 cm x 43 cm (17" x 17")
Weight	2.1 kg
Active area	42 cm x 42.5 cm (16.5" X 16.7")
Image resolution	up to 3.4 Lp/mm

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