



PHILIPS

DigitalDiagnost C50

Radiography solutions

Pair performance with **ease-of-ownership**

Philips DigitalDiagnost C50 ceiling mounted digital X-ray system

Key advantages

- Cost-effective ceiling suspended system with fixed or wireless detector
 - Broad application range includes image stitching
 - Proven Philips quality and support
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Philips DigitalDiagnost C50 is a performance oriented ceiling mounted digital X-ray system that delivers diagnostic quality images for fast, efficient exams.

The DigitalDiagnost C50 offers you the kind of versatility necessary to address a broad range of clinical applications, while doing so in a cost-effective manner.

Choose either a fixed or wireless detector configuration and benefit from motorized auto-tracking, a robust digital workflow, and UNIQUE image processing.



Make smart use of your resources with this versatile system

DigitalDiagnost C50 extends your imaging capabilities in an affordable way. You get Philips brand quality with diagnostic functions that cover all your general clinical application needs. Enjoy a high degree of system automation with the Eleva user interface and workstation. Special automatic exposure control (AEC) permits short, accurate exposures for effective dose management. And consistent, diagnostic quality is possible with Philips UNIQUE multi-resolution image processing software.

It's a smart investment.

Elegant movements

The ceiling suspended X-ray tube moves smoothly and manually into position. The vertical stand detector slides up/down and tilts -20° - 90° for easy multiple angle exams. Optional standard stitching speeds the full body imaging process.

DigitalDiagnost C50 uses the latest generation of robust wireless portable/fixed detectors and cutting edge image processing techniques to reinforce diagnostic confidence.

Choose a room that fits

The DigitalDiagnost C50 is available in three room configurations to best suit your institutional requirements.

- **Value Room** – A wireless portable detector is paired with a fixed height or height adjustable table to offer versatility and free exposures for a wide variety of exam types
- **Chest Room (Fixed)** – This fixed detector and trolley configuration is perfect for high volume specialty chest and multi-purpose applications
- **Chest Room (Wireless)** – Swap the fixed detector for a wireless portable one and you broaden system capabilities

Strong workflow continuity

The Eleva workstation enhances your workflow via pre-settings and customized user profiles. Images are available on screen just six seconds after acquisition. And it takes only three clicks to complete an examination. This high degree of automation supports streamlined patient scheduling and throughput.

The system is fully DICOM compatible and easily connects to your PACS for IT infrastructure integration.

Consistent diagnostic quality

Proprietary UNIQUE image processing software delivers consistently uniform clinical image quality for all anatomic regions by automatically adjusting the balance between heavily exposed and barely exposed areas. UNIQUE harmonizes contrast to enhance faint details, helping to ensure you experience consistent results.

Quality from a brand you can trust

DigitalDiagnost C50 is an example of proven technology from a leading manufacturer of high-end medical imaging equipment*. The system reflects decades of company experience in digital X-ray development and enjoys the benefits of Philips customer service. It's well built and easy to own.

Advantages

The DigitalDiagnost C50 has something for everyone:

- **For the patient:** Quick and easy imaging exam, effortless experience, and excellent results
- **For the radiologist:** Fast, digital image quality for confident diagnoses and seamless PACS integration
- **For the technologist:** Simple system operation with intuitive user interface for a patient-focused workflow
- **For the radiology director:** Cost-effective ceiling mounted digital X-ray system from a recognized industry leader

X-ray generation

Generator	50 kW	65 kW
High-voltage generator	The converter generator generates high voltage equivalent to DC voltage	
Mains voltage	380V/400 V / 480 V ($\pm 10\%$); 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 80 kV)	630 mA	800 mA
mAs product	0.4 mAs to 850 mAs	0.4 mAs to 850 mAs
Exposure times	1ms to 4s	1ms to 4s

Tube High power X-ray tube	RO1750	SRO 33100
Two focal spots	0.6 and 1.2	0.6 and 1.2
Maximum power: with focal spot 0.6 with focal spot 1.2	21 kW 60 kW	33 kW 100 kW
Anode angle	13°	13°
Maximum tube voltage	150 kV	150 kV
Anode heat storage capacity	220 kJ (300 kHU)	220 kJ (300 kHU)
Assembly heat capacity	1500 kJ (2202.4 kHU)	1500 kJ (2202.4 kHU)
Continuous anode input power	250 W	200 W
Minimum anode speed	3000-3600 revolutions/minute	9000-10800 revolutions/minute

Fixed detector

Type Digital GOS (Gadox) flat detector	
Detector size	43 cm x 43 cm (17" x 17")
Active area	42.5 cm x 42.5 cm (16.7" x 16.7")
Image matrix size	2,869 pixel x 2,874 pixel
Detector pixels	8.3 Megapixel
Pixel size	148 μm
Image resolution	up to 3.4 Lp/mm
Weight	2.1 kg

Wireless Portable detector

Type	Digital wireless flat detector
Scintillator	Gadox
Detector size	35 cm x 43 cm (approx 14" x 17")
Active Area	34.1 cm x 42.4 cm (approx 13.4" x 16.7")
Image matrix size	2476 x 3072 pixels
Active pixel area	2456 x 3052 pixels
Pixel size	139 μm
Detector pixels	7.6 Megapixels
A/D conversion (bits)	16 bits
Weight (incl. battery)	3.6 kg approx. (7.93 lbs)

Ceiling Suspension CS

Column 110 cm (44")	
Ceiling height at source image distance 2.70 m to 3.00 m (8' 8.3" to 10' 5.9")	

Movements

Travel range X axis(Longitudinal)	3.05/4.05m (10'/13'3.4")
Travel range Y axis(Lateral)	1.8m (5' 11")
Travel range Z axis(Vertical)	1.5m (4' 11")

Collimator

Type	Manual, with light field indicator
Angle of aperture and rotation	$\pm 45^\circ$
Timer switch	30 s (should be configurable)

Eleva workspot computer

Hard disk	500 Gb total; 203 Gb for the image data (equivalent to approximately 11548 images)
RAM storage capacity	4 Gb

Table

Choice of height adjustable table, fixed height table and trolley/Wallstand: vertical stand with fixed detector unit and vertical stand with wireless portable detector unit

DigitalDiagnost C50 is not available for sale in North America

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healthcare@philips.com