

World class **customer service**

Flexible options to help you protect your investment. Philips offers comprehensive support solutions that extend beyond the walls of your exam room.

Tailored service agreements

Philips broad range of RightFit Service Agreements allow you to right size service coverage to your specific operation. Choose from parts and labor plans with uptime guarantees, assist plans supporting your own in-house engineers, or full coverage plans letting Philips do all the work. All offer a great service experience, open communications, and a hands-on approach.

Multi-vendor services

Philips multi-vendor services allows you to cover all your imaging equipment, regardless of vendor, with a single contract. You will receive just one bill and have access to nearly 2,000 support specialists with

expertise across brands and modalities. Service plans can be customized, from full coverage to on-demand support.

Detector coverage

Philips offers a variety of wireless detector protection options in the event of accidental damage* to a SkyPlate wireless detector.

*Misuse terms and conditions apply

PHILIPS

Digital**Diagnost C50**

Digital radiography

Release 1.1



Boost your **diagnostic confidence**

ceiling mounted digital X-ray system

Key advantages

- Proven diagnostic confidence
- Broad application range includes image stitching
- Latest IT standards
- Ease-of-ownership

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 our latest fixed and/or wireless detector configuration and benefit from motorized auto-tracking, a robust digital workflow, and UNIQUE 2 image processing.

*Philips DigitalDiagnost C50 is not available for sales in North America

X-ray generation

Generator	50 kW	65 kW
High-voltage generator	The converter generator generates high voltage equivalent to DC voltage	
Maximum inverter frequency	200 kHz	
Mains voltage	380 V / 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	112 A	134 A
Nominal power (IEC)	50 kW	65 kW
Max. tube voltage	150 kV	150 kV
Max. tube current	630 mA	1000 mA
mAs product	0.4 mAs to 850 mAs	0.4 mAs to 850 mAs
Exposure times	1 ms to 4 s	1 ms to 4 s

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	200 W	200 W
Minimum anode speed	3000-3600 revolutions/minute	9000-10800 revolutions/minute

Fixed detector

Type	Digital Cesium Iodide (CsI) flat detector
Detector size	43 cm x 43 cm (17" x 17")
Active area	42 cm x 42.5 cm (16.5" x 16.7")
Image matrix size	2,860 x 2,874 pixel
Detector pixels	8.2 Megapixel
Pixel size	148 µm
A/D conversion (bits)	16 bits
Image resolution	up to 3.4 Lp/mm
Weight	11.7 kg (25.8 lb)

SkyPlate E detector

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

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Ceiling Suspension CS

Column	
Ceiling height at source image distance 110 cm (44")	2.75 m to 3.00 m (9' to 10' 5.9") when table height is 70 cm (27.6") and above
Movements	
Travel range X axis (Longitudinal)	3.05/4.05 m (10'/13'3.4")
Travel range Y axis (Lateral)	1.8 m (5' 11")
Travel range Z axis (Vertical)	1.5 m (4' 11")
Collimator	
Type	Manual, with light field indicator
Angle of aperture and rotation	±45°
Timer switch	30 s (configurable)

Eleva workspot computer

Hard disk	480 GB SSD tota (image storage of approximately 10,000 images)
RAM storage capacity	16 GB
Operating System	Windows 10

Table and vertical stand

Table: choice of height adjustable table, fixed height table and trolley.
Vertical stand: vertical stand with fixed detector unit and vertical stand with wireless portable detector unit

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Boost your **diagnostic confidence**

The DigitalDiagnost C50 allows you to build the system you need.

With its efficiency technologies, the DigitalDiagnost C50 supports fast, informed decision-making, intuitive workflow, and exceptional performance.

If you are looking for the DR system to keep you positioned at the forefront of an ever-changing industry, for the long-term, the DigitalDiagnost C50 is that system. True clinical and economic value is found in fast, confident, repeatable diagnoses.



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. Our latest generation of fixed and wireless detectors, together with the cutting-edge Philips UNIQUE 2 multi-resolution image processing software provide consistent, diagnostic quality to perform excellent exams.

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. The free floating tabletop supports easy positioning of even large size patients with a light touch. Optional image stitching speeds the full body imaging process.

Leverage the flexibility of your wireless detectors by choosing our optional SkyPlate to share them amongst multiple systems according to your needs.

Choose a room that fits

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

- **High performance room** – Designed for high throughput, this powerful configuration provides a fixed detector at the vertical stand, and a wireless detector at the fixed height or height adjustable table
- **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 typically fully available just seven seconds after acquisition. And it takes only three clicks to complete an examination. This high degree of automation supports streamlined patient scheduling and throughput.

If you prefer a grid-less workflow, the optional SkyFlow Plus assists by producing images with grid-like contrast for all anatomies. There's no need to attach and detach a grid, so detector/patient positioning is fast and easy. Without a grid, retakes due to grid misalignment are a thing of the past. SkyFlow Plus helps you work more efficiently by rapidly acquiring high-quality images, while effectively managing scatter radiation

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

Diagnostic confidence

DigitalDiagnost C50 uses the latest generation of wireless/fixed detectors, which provide high image quality by excellent dose efficiency. Plus, Philips UNIQUE 2 image processing uses next generation image processing software to provide superb images of all anatomical areas. UNIQUE 2 improves clinical image quality by providing selective enhancement of tiny details, increased contrast, and reduced background clutter.

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.



State-of-the-art detectors

Digital fixed and SkyPlate E detector are made of cesium iodide for superb image quality. The 43 cm x 43 cm (17" x 17") fixed detectors reduce handling and eliminate drop coverage expenses. For more flexibility, the SkyPlate E can be used in the table, vertical stand, or for free projections, based on room configuration. It can be shared across the Philips premium DR and DRF equipment portfolio.

The DigitalDiagnost C50 conforms to the latest IT standards

Philips places critical importance on assuring that the DigitalDiagnost C50 is safe, secure and compliant for integration into any hospital network.

Information technology highlights

- Embedded Windows 10 operating system
- Seamless integration IT infrastructure and PACS
- Data encryption (stored and removable)
- Whitelisting malware protection
- User authentication/system hardening
- Centralized user management
- Remote software distribution
- Wireless detector handling tracker



Advantages

The DigitalDiagnost C50 has something for everyone:

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

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