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

* 2013 Global Medical Imaging Equipment Market Outlook - Positioning for the Future; Frost&Sullivan; NC8B-54, June 2013
### X-ray generation

<table>
<thead>
<tr>
<th></th>
<th>50 kW</th>
<th>65 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generator</td>
<td>50 kW</td>
<td>65 kW</td>
</tr>
<tr>
<td>High-voltage generator</td>
<td>The converter generator generates high voltage equivalent to DC voltage</td>
<td></td>
</tr>
<tr>
<td>Mains voltage</td>
<td>380V/400 V / 480 V (±10%); 50 Hz or 60 Hz, 3-phase</td>
<td></td>
</tr>
<tr>
<td>Max. mains resistance at 400 V</td>
<td>0.3 Ohm</td>
<td>0.2 Ohm</td>
</tr>
<tr>
<td>Max. mains current at 400 V</td>
<td>112A</td>
<td>134A</td>
</tr>
<tr>
<td>Nominal power (IEC)</td>
<td>50 kW</td>
<td>65 kW</td>
</tr>
<tr>
<td>Max. tube voltage</td>
<td>150 kV</td>
<td>150 kV</td>
</tr>
<tr>
<td>Max. tube current (at 80 kV)</td>
<td>630 mA</td>
<td>800 mA</td>
</tr>
<tr>
<td>mAs product</td>
<td>0.4 mAs to 850 mAs</td>
<td>0.4 mAs to 850 mAs</td>
</tr>
<tr>
<td>Exposure times</td>
<td>1ms to 4s</td>
<td>1ms to 4s</td>
</tr>
</tbody>
</table>

### Tube High power X-ray tube

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

### 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 35 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)

DigitalDiagnost C50 is not available for sale in North America

### 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**: ±45°
- **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

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