

PHILIPS

DigitalDiagnost C90

Digital radiography



Accelerate exam performance

Key advantages

- Fast workflow
- Diagnostic confidence
- High flexibility

Philips DigitalDiagnost C90¹ premium DR room is designed to meet the diagnostic imaging needs of the most demanding institutions.

It allows you to comfortably see more patients per day and shorten patient wait times by decreasing the time to diagnosis with innovative tools that help drive workflow efficiency.

DigitalDiagnost C90's live tube head camera, versatile room configurations, and exam automation technologies all help assure outstanding patient throughput.

¹ Philips DigitalDiagnost C90 is not available for sale in the USA.

Save time and provide exceptional patient care

with the versatile DigitalDiagnost C90¹

Faster workflow and easier collimation

DigitalDiagnost C90 integrates a touchscreen and a live camera into the Eleva Tube Head for extended Eleva control, right in the exam room. The live camera helps with patient positioning by providing a clear view of the collimation area which can help alleviate potential imprecise collimation such as with obese patients. Better positioning can also help eliminate time consuming retakes that add unnecessary X-ray dose.

If you prefer a grid-less workflow, 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.

Utilizing the Eleva Tube Head can speed up the workflow by 28 seconds per examination.²

Since 67,5 %³ of retakes in radiography result from wrong patient positioning, this problem is addressed by the Eleva Tube Head Live Camera.

The Live Camera allows the user to check on correct positioning prior to image acquisition also at the working console by means of live camera images.

94 % of the users think that the live camera images at the work station helps to avoid retakes.²

Faster setup time

- Live images of the collimated anatomy assist staff in initial patient positioning
- Detect patient movement and incorrect collimation early with a view of the collimated area at the Eleva Tube Head and Eleva workspot.
- Double check all relevant system parameters, images, and order of views at the tube head as well as at the Eleva workspot

75 % of the users consider the Eleva Tube Head as helpful spending more time with the patient.²

Diagnostic confidence

DigitalDiagnost C90 now offers two features to improve your ability to provide a confident diagnosis.

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.

UNIQUE 2 beats the benchmark, with 80.1% of the reader votes showing preference or equivalence.⁴

Philips Bone Suppression⁵ software helps remove bone structures from chest images for an unobstructed view of soft tissue. This clear view can help ensure you have a more accurate image interpretation. Philips Bone Suppression can improve actionable nodule detection by up to 16.8 %⁶ without the need to expose the patient to additional X-ray dose. As part of Philips' Eleva platform, Bone Suppression is integrated into the regular system workflow. Depending on the protocol it provides automatically processed images without the need to send them separately to PACS.

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² Validation with participants in test environment

³ Little, K.J., et al. (2016) Unified Database for Rejected Image Analysis Across Multiple Vendors in Radiography, Journal of the American College of Radiology, 14(2), 208-216.

⁴ Result of a blinded image comparison study

⁵ Riverain Technologies' ClearRead Bone Suppression

⁶ Freedman M et al. Improved detection of lung nodules with novel software that suppresses the rib and clavicle shadows on chest radiographs. Radiology. 2011.

High flexibility

DigitalDiagnost C90¹ offers a variety of configuration options to fit your clinical application and budgetary needs. It gives you the opportunity to choose the configuration that best satisfies your departmental requirements.

1. High performance room VM90 – High patient throughput and superior ergonomics with the vertical movable stand and workflow efficiency with up to three detectors
2. High performance room VS90 – High patient throughput with up to three detectors
3. Flex room VM90 – All applications performed in a small space

DigitalDiagnost C90 moves around the patient with ease, giving you flexibility of exam preparation. The system offers a 'move to position' function that allows it to travel automatically to a selected exam position. With the optional fully automated ceiling suspension, both detector and tube move in unison at the touch of a button. This allows you to reduce patient repositioning with virtually unlimited predefined position settings.

The High performance room VM90 and Flex room VM90 also add a vertical movable stand to compensate for patient movement and further reduce the need for repositioning. The Flex room VM90 then takes flexibility to the next level with a single-side suspended table including swivel option. The detector on the vertical movable stand slides freely under the table for spine imaging. For bed and trolley exams, the table can be quickly swiveled away to allow space for easy access.

However you choose to configure your DigitalDiagnost C90, you can select from a wide variety of innovative features to personalize your room setup, reinforcing your primary commitment of providing exceptional patient care. So, go ahead and create a premium DR room like no other.



More flexibility with Philips SkyPlates for free exposures



High performance room VM90 for high patient throughput and superior ergonomics

Specifications

Height adjustable table (TH2)

Height adjustable table with floating tabletop, removable grid and 3 AEC measuring chambers

Height adjustment	51.5 cm to 91.5 cm (1' 8.3" to 3')
Tabletop dimensions	240 cm x 75 cm (7' 10.5" x 2' 5.5")
Tabletop travel range	longitudinal +/- 60 cm (1' 11") transverse +/- 12 cm (4.7")
Max. patient load	375 kg (826.7 lbs.)

Table also available as single side suspended table (TH-S)

Movable vertical stand (VM)

Movable vertical stand for efficient upright, cross-lateral and under-the-table examinations

Vertical movement range	35 cm to 185 cm (13.8" to 6' 0.8")
Maximum horizontal travel	5.5 m (18' 0.5")
Detector unit dimension (w x h)	59.6 cm x 57.5 cm (23.5" x 22.6")
Tilt angle	horizontal axis -20° to +90°, motorized tilting vertical axis +45° to -23°, manual tilting

Vertical stand also available as fixed vertical stand (VS).

Eleva Tube Head (ETH)

Full color LCD touch display width	30.7 cm (12.1")
Minimum viewing angle in horizontal and vertical viewing field	160°
6 color-coded control buttons – one for each direction	
Capacitive sensor for three-axis brake-release	
Data displayed at the Eleva Tube Head amongst others:	Patient data, Preview images, Collimation field size, Generator setting, Live Camera image (optional)

Movable Ceiling Suspension (CSM)

Travel with Comfort Track and Comfort Move	longitudinal 3.44 m (11' 3.4")
Travel with fully motorized Comfort Position (optional)	longitudinal 3.28 m (10' 9.1")
Ceiling height at source image distance 110 cm (44")	2.83 m to 3.21 m (9' 3.4" to 10' 6.4")

Also available with extended longitudinal travel for Comfort Track, Comfort Move and Comfort Position.

Generator

Mains voltage	380 V / 400 V; 50/60 Hz, 3-phase 480 V; 60 Hz, 3-phase
Nominal power	65 kW or 80 kW

X-ray tube assembly

Dual-focus rotating anode X-ray tubes for excellent performance over a long lifetime

High power X-ray tube (SRO 33100)	
Maximum voltage	150 kV
Focal spot 0.6 mm	maximum power 33 kW
Focal spot 1.2 mm	maximum power 100 kW

Eleva workspot

240 GB SSD total	
RAM storage capacity	16 GB
Monitor	21.3" LCD color touch monitor
Matrix depth	16 bit/pixel
CD/DVD drive	24x CD reader/writer 8x DVD reader/writer

Large SkyPlate detector

Type	Digital Cesium Iodide flat detector
Detector size	35 cm x 43 cm (14" x 17")
Active area	34.48 cm x 42.12 cm (13.6" x 16.6")
Image matrix size	2,330 x 2,846 pixel
Pixel size	148 µm
Detector pixels	6.6 Megapixel
A/D conversion	16 bits
Weight	2.8 kg (6.2 lbs.) including lead backer

Also available as small SkyPlate detector.

Fixed detector

Type	Digital Cesium Iodide 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	2,840 x 2,874 pixel
Pixel size	148 µm

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4522 991 38991 * OCT 2018



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