

PHILIPS

DigitalDiagnost C90

Flex room



Boundless possibilities

DigitalDiagnost C90 Flex room

Key Benefits

- Single detector solution with multi-detector like capabilities
- Covers nearly all projections for a medium to high patient load
- Flexible usage as either general RAD or ER room
- Superb workflow and IQ with the latest IT standards

Quick preparation is critical in a busy imaging environment. The DigitalDiagnost C90 Flex room is an exceptionally versatile DR system easily adjusted for virtually every projection. Ideal for general RAD or as an ER room, it delivers superior patient comfort and diagnostic confidence.

This all-purpose single detector X-ray system includes a motorized wall stand with swivel movement and integrated 43 cm x 43 cm (17" x 17") detector. The height adjustable table is single-side-suspended and swivels 90° in either direction (optional).

Whether you perform vertical, horizontal, seated or difficult angulated exams, the DigitalDiagnost C90 Flex room's high performance features assure confidence at every step.



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Flexible DR for demanding applications

The beauty of the DigitalDiagnost C90 Flex room is in its simple, compact footprint and premium configuration. The system requires only 5.8 m x 4.08 m (19' 0.3" x 13' 4.6") and is able to perform all the applications of a traditional two detector room set-up with one highly flexible fixed detector. You can comfortably position the detector around the patient thanks to the vertical movable stand and the TH-S single-side-swivel table..

DigitalDiagnost C90 Flex room is an excellent choice as a general RAD exam room, or is equally capable in an emergency room environment. An advanced feature set helps you adapt quickly to each, and every, patient and clinical situation.



The DigitalDiagnost C90 allows you to see **15 more patients** per day!¹

Utilizing the DigitalDiagnost C90 allows you to **avoid approximately 28 retakes** per week.¹



Watch the training video



Advanced geometry improves workflow

The height adjustable single-side-suspension table includes a swivel function of up to 90°. Swing it easily into and out of the exam area. Combine that with the vertical movable stand (with its own detector swivel arm) and a motorized 5-axes ceiling suspended tube, and you'll find all elements work together in unison to provide outstanding flexibility for any positioning challenge.

When you choose an exam type, the detector and X-ray tube travel automatically around the patient to position, for enhanced speed and comfort. This is particularly important for bariatric, elderly, very young, and trauma patients. Enjoy virtually unlimited synchronized positions, made possible by full motorization, facilitating a smooth workflow.

Eleva Tube Head with live camera

The DigitalDiagnost C90 Flex room employs the latest Eleva Tube Head design and user interface. All exam parameters can be accessed, selected, and adjusted via the touchscreen, including patient data, patient type, exposure, collimation, preview images and more. Add the optional live camera functionality and you immediately get a bird's eye view for better visibility of collimation lines. Live images of the collimated anatomy are displayed continuously during the exam directly on the Eleva Tube Head. The live tube head camera can also be activated at the Eleva control room workspot, allowing you to confirm patient position and collimation before any exposure is made. This helps to prevent retakes and saves dose.

Fixed and wireless detectors

Philips digital detectors feature superb image quality at a low X-ray dose with high DQE and MTF. The DigitalDiagnost C90 Flex room uses a 43 cm x 43 cm (17" x 17") fixed detector (with 5 AEC chambers) in the vertical

movable stand. You can extend the versatility of the flex room configuration by adding a SkyPlate wireless portable detector for convenient free projections and increased flexibility and performance in trauma situations.

Image quality is further enhanced with the second generation of our well-established UNIQUE 2 post-processing software. UNIQUE 2 improves clinical image quality by providing selective enhancement of tiny details, increased contrast, and reduced background clutter. By means of a newly designed interface, image parameters can be easily adapted for each anatomy type, depending on the preferred focus.

Put it to use as an Emergency Room

The versatile DigitalDiagnost C90 Flex room is the perfect choice for a busy emergency room environment. You have many options for exam configurations. Total room motorization makes trolley or wheelchair exams easy. Gain free access to the detector by swiveling the table away for direct imaging (useful for extremities/fractures). There's no need to transfer a patient from stretcher to the table, just position the trolley over the fixed detector for rapid imaging.

With the TH-S table swung completely out of the way and an optional SkyPlate detector in use, there is even more room for emergency equipment and staff, and more space around the patient.

If you prefer a grid-less workflow when using SkyPlate, the optional SkyFlow Plus can assist by producing excellent images with grid-like contrast for all anatomies. You don't need to attach, detach and clean a grid, so detector/patient positioning is fast and easy – critical when time is short and ER volume is high.

Vertical movable stand and TH-S table **work together**

Cross-table lateral examinations

Cross-table lateral examinations are especially useful for applications in trauma environments, where in combination with detector alignment and use of automatic exposure technique (AEC) helps you to focus fully on your patient.



Abdomen, left lateral decubitus position, horizontal beam technique



L-Spine, lateral, horizontal beam technique



Knee, lateral, horizontal beam technique



Hip, Cross Lateral

Variety of **standard exam** positions

Move the fixed detector directly under the TH-S table using its swivel arm, or use it as backrest for sitting exams. (images on the right)



Patella Axial



Feet dp



Chest pa



Feet dp

Specifications

This flexible compact system includes all the features of Philips premium DR and is ideal as a traditional general RAD room or emergency room. You can perform a broad variety of applications on different patient types in challenging situations quickly and efficiently with the DigitalDiagnost C90 Flex room.

Main components

Hardware

Vertical movable stand with swiveling arm and integrated flat detector

Monotorized ceiling suspension with X-raytube assembly, control grip and collimator

Live Camera Package²

Comfort Move

Eleva Workspot with 2MP High Resolution Monitor

Generator (65 kW or 80 kW)

Wide table top

Software

Eleva application and examination database software

UNIQUE 2 image processing

Devication and Target index

DICOM package plus

Power consumption (at 400 V / 50 Hz)

Stand by 330 W

Off 90 W

Optional

Hardware

SkyPlate/SkyPlate E³

Single side suspended table TH-S

Swivel for table TH-S

Comfort Position

mShield firewall

Software

Bone Suppression (for Chest PA/AP examinations)

SkyPlate sharing

SkyFlow Plus

Dose Reporting in DICOM Structured Report format

DICOM Query/Retrieve

Automatic imago stitching

Clinical QC

PCR reader intergration

Acoustic noise

Exam room 71 [dB(A)]

Operating room 66 [dB(A)]

Technical room 65 [dB(A)]



Flex room VM90 with vertical movable stand and table TH-S



Swivel away single side suspended table TH-S easily to have more space for bed examinations with SkyPlate

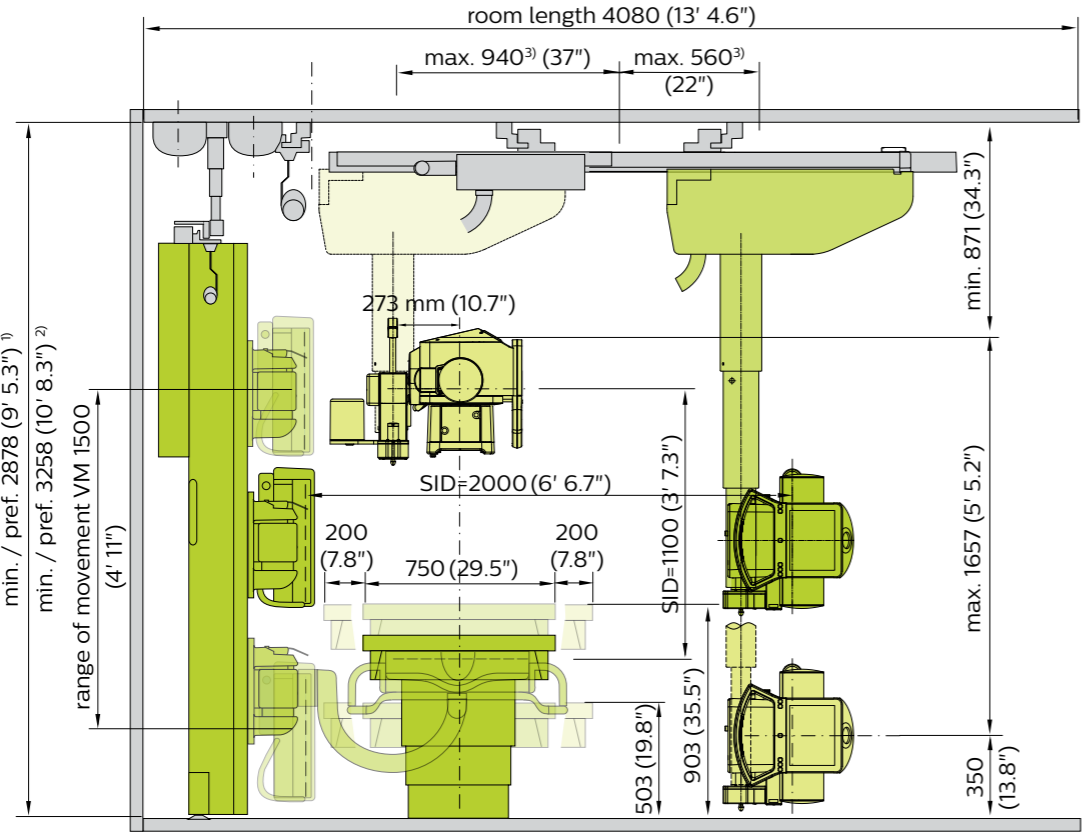
² Live Camera Package is only standard in North America

³ SkyPlate E is not available for sale in all countries.

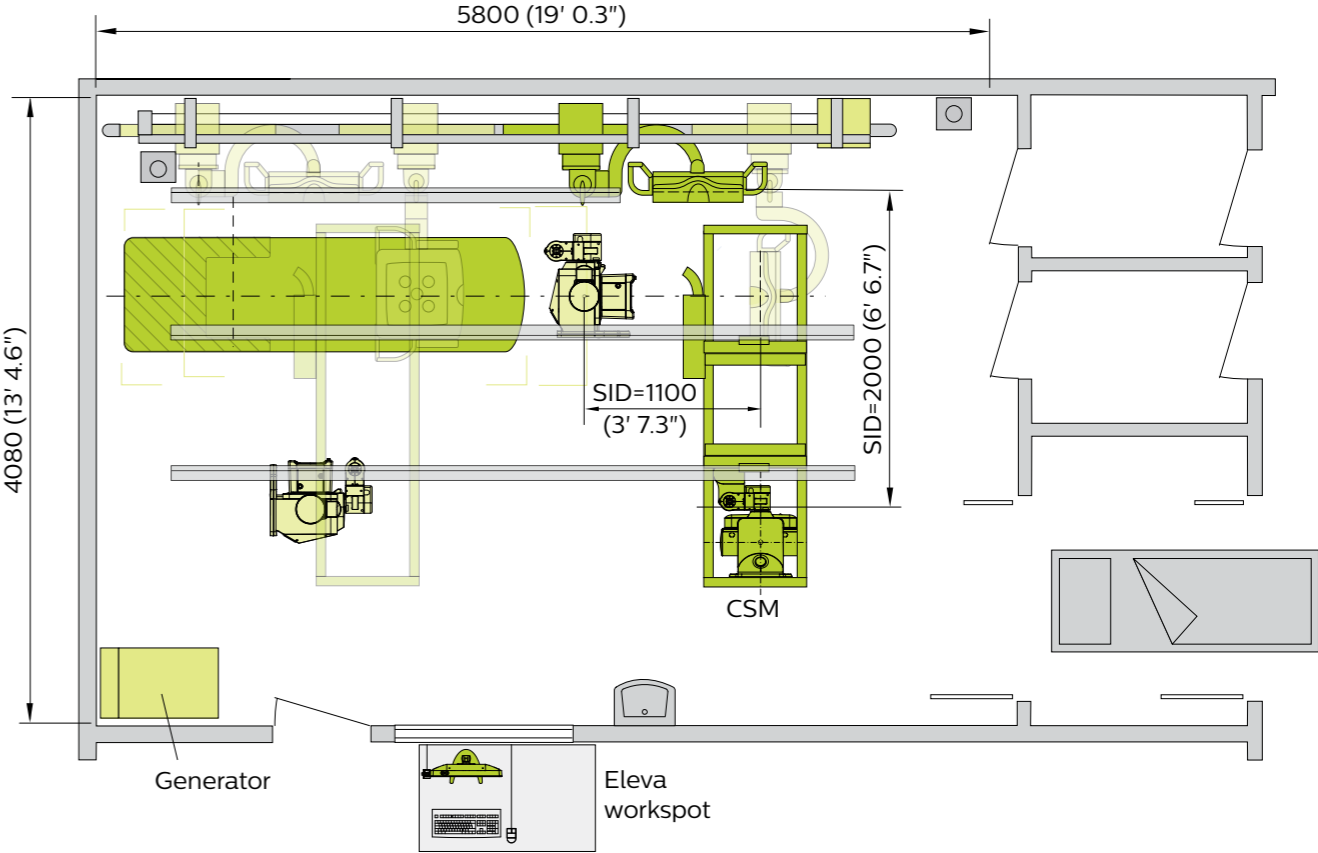
Room Layouts

Example room layout is based on the TH-S table and vertical movable stand with fixed detector.

All dimensions are in mm (feet/inches).



¹⁾ tubeshield support in upper position
²⁾ tubeshield support in lowest position
³⁾ range of movement CSM





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