PHILIPS

*Proxi**Diagnost N90***

Digital radiography and fluoroscopy solutions

Broaden clinical capacity and increase room utilization

Key advantages

- Dynamic flat detector for wide body coverage and superb images
- Comprehensive dose management for patient and staff benefit
- Small footprint and slim design for superb access to the patient
- Excellent workflow efficiency with intuitive Eleva interface
- Flexible room configurations for cost efficiency

ProxiDiagnost N90 combines high-end, nearby fluoroscopy and digital radiography into one complete system, designed to enhance the clinical capabilities of your fluoroscopy room.

The system supports high throughput with comprehensive DRF functionality and configurations to suit your specific needs.

ProxiDiagnost N90's easy patient access, superb image quality, and dose management features make the system suitable for everything from pediatric to bariatric imaging.

Advantages of ProxiDiagnost N90

Cost effective
Facilitate high room utilization with the ability to perform high-quality radiography as well as fluoroscopy applications in one room. You can further lower the costs of ownership by sharing SkyPlate wireless detectors with other compatible Philips systems.

Superb image quality
Flat detector technology provides wide body coverage and distortion free images. Image quality is further enhanced with advanced de-noising, brightness stabilization, and real-time fluoroscopy image processing using Philips dynamic UNIQUE. Fluoroscopy images can also be recorded at any time to document findings.

Intuitive
Philips Eleva user interface allows a smooth, patient-focused workflow with customizable presets and automation for excellent efficiency. The touch monitor allows technologists to work fast and with a minimum number of clicks.

Bariatrics
Even the most challenging patients can benefit from ProxiDiagnost N90 with a 300 kg (660 lbs) table weight capacity plus features like GCF providing dedicated bariatric settings for efficient penetration and good image quality.

Dose management
Comprehensive dose management features like Grid-Controlled Fluoroscopy (GCF), Intelligent Exposure (IQX), in-pulse control, automatic filters and collimation on last image hold (LIH), benefit both patient and staff and is perfectly suited for pediatrics.

For pediatric examinations, Philips Grid-Controlled Fluoroscopy (GCF) enables a dose rate[1] reduction of up to 68%[2] compared to Pulse-Controlled Fluoroscopy (PCF), depending on patient type and clinical application.

Outstanding accessibility

The small table footprint gives free access at the back. Combined with a slim detector housing, it allows outstanding access to the patient during procedures

The detector parking position at the back of the table frees the tabletop completely, allowing easy and safe access from patient.

1 Dose rate determined according to IEC 60601-2-54, 203.5.2.4.5.102, System set up: detector format 43 x 43 cm (17 x 17”), patient type children, 0.1 mm Cu + 1 mm Al filter, reduced dose and pulsed slow fluoroscopy mode with 2 pulses/s, Phantom: 5 cm (2 in) PMMA 2

2 Relative difference of two reference air kerma rates between system with GCF and system with PCF

System at a glance

Accessibility
Outstanding access to patient during procedures through free access to all tablesides and a slim flat detector housing

Easy and safe patient access thanks to a tabletop that moves completely clear from detector housing

Image quality
Impressive high quality fluoroscopy from the first frame onward thanks to in-pulse control and dynamic UNIQUE image processing

Table Bucky work with large fixed or removable SkyPlate detector

Comprehensive dose management
Fully automatic adjustment of exposure settings to body thickness with intelligent exposure (IQX)

Grid-Controlled Fluoroscopy (GCF) with in-pulse control for ultra-sharp pulses, frame rates as low as 0.5 fps and dedicated settings from newborn to bariatrics

Bariatrics
Spacious clearance area under detector and a wide tabletop accommodate large patients

Robust construction and high static table load of 300 kgs (660 lbs) and high penetration settings for bariatric patients

Benefits many stakeholders

For the radiologist:

- √ Confident diagnoses with dynamic flat detector technology and dynamic UNIQUE image processing
- √ Easy readability with virtually distortion-free images from flat detector
- √ Quick exams with digital workflow and fewer steps

For the technologist:

- √ Fast exams with Eleva's automatic patient exposure parameters
- √ Peace of mind thanks to in-pulse control doing automatic adjustment of exposure parameters to body thickness
- √ Workflow and user interface harmonization between Philips DR and RF products

For the hospital administrator:

- √ Excellent room utilization due to fully featured DRF system and fast workflow
- √ Fits needs and layout through flexible room concepts
- √ Lower costs by combining Rad and Fluoro rooms and sharing SkyPlate detectors with other compatible Philips products

For the patient:

- √ Exceptional image quality and comprehensive dose management for targeted diagnoses
- √ Easy access to system thanks to slim design
- √ High static table load of 300 kg (660 lbs) supports wide range of patient types

Put your fluoroscopy room to good use with five flexible DRF concepts

DRF High Performance Room
Large dynamic detector, table with SkyPlate wireless detector, second tube and vertical stand with large fixed detector

DRF High Performance Bariatrics Room
Large dynamic detector, table and vertical stand with large fixed detector, second tube and optional SkyPlate wireless detector for free exposures

DRF Value Room
Large dynamic detector, table, vertical stand, second tube and SkyPlate wireless detector shared between table and vertical stand

Classic Rad-Fluoro Room
Large dynamic detector, table and vertical stand with cassette Bucky tray, second tube

Classic Fluoro Room
Pure fluoroscopy room with large dynamic detector

●	Large 43 cm x 43 cm (17" x 17") dynamic detector
●	Large 43 cm x 43 cm (17" x 17") fixed detector
●	35 cm x 43 cm (14" x 17") SkyPlate tray
●	35 cm x 43 cm (14" x 17") Cassette tray

Specifications

Table Geometry

Weight capacity	Static Tilting All movements	300 kg (660 lbs) 250 kg (550 lbs) 185 kg (407 lbs)
Footrest weight capacity	250 kg (550 lbs)	
Table tilt angle	+90° – -30°, optional -45°/-85°	
Tabletop	200 cm x 80 cm (78.7" x 31.5")	
Tabletop to detector housing clearance	25 – 60 cm (9.8" – 23.6")	
Tabletop height	83.3 cm (32.8")	
Detector for table Bucky	Fixed 43 cm x 43 cm (17" x 17") or SkyPlate 35 cm x 43 cm (14" x 17") or cassette	

Dynamic Flat Detector

Type	Cesium Iodide (CsI)
Detector size	43 cm x 43 cm (17" x 17")
Active area	42 cm x 42.5 cm (16.5" x 16.7")
Pixel size	148 µm
Image matrix size	2840 x 2874 pixel
Acquisition mode continuous fluoroscopy	Up to 30 fps
Acquisition mode pulsed fluoroscopy with Grid-Controlled Fluoroscopy (GCF)	0.5 – 30 fps
Acquisition mode pulsed fluoroscopy with Pulsed-Controlled Fluoroscopy (PCF)	Up to 6 fps

Generator

Power	65 kW, 80 kW optional
Exposure Techniques	• Manual: kV-mAs or kV-mA-s • Automatic Exposure Control (AEC) • Intelligent Exposure (IQX), in-pulse controlled • Automatic kV reduction techniques
Fluoroscopy Techniques	• Pulsed-Controlled Fluoroscopy (PCF), in-pulse controlled • Grid-Controlled Fluoroscopy (GCF) (optional), in-pulse controlled
Tube voltage exposure	40 – 150 kV
Tube voltage fluoroscopy	40 – 125 kV

Tubes	SRO 2550	SRM 2250 GS (with GCF option)	SRO 33100 ROT380 (for CSM)
Focal Spot	0.6 / 1.0	0.5 / 1.0	0.6 / 1.2
Anode heat storage capacity	300 kHU (220 kJ)	380 kHU (280 kJ)	300 kHU (220 kJ)
Maximum voltage	150 kV	125 kV	150 kV

Vertical Stand (option)

Vertical travel (motorized)	30 – 180 cm (11.8 – 5'11")
Detector	Fixed 43 cm x 43 cm (17" x 17") or SkyPlate 35 cm x 43 cm (14" x 17") or cassette
Tilting (motorized)	Optional, -20° – +90°

Ceiling Suspension CS (option)

Type	Four-part telescopic column
Ceiling height at SID 110 cm (44")	2.83 – 3.21 m (8' 8.3" – 10' 5.9")
Collimator	Motorized, automatic

SkyPlate Detector (option)	Small	Large
Type	Digital CsI (Cesium Iodide) flat detector	Digital CsI (Cesium Iodide) flat detector
Detector Size	24 cm x 30 cm (approx. 10" x 12")	35 cm x 43 cm (14" x 17")
Active area	22.2 cm x 28.4 cm (8.7" x 11.2")	34.48 cm x 42.12 cm (13.6" x 16.6")
Image Matrix Size	1500 pixel x 1920 pixel	2330 pixel x 2846 pixel
Weight (incl battery)	1.6 kg (3.5 lbs)	2.8 kg (6.2 lbs)

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