



PHILIPS

MobileDiagnost wDR

Mobile digital radiography

Access all areas with the **premium DR room to go**

Key advantages

- **Access to all hospital and anatomical areas:**

Make use of a flexible system especially suited for both tight spaces and acute care areas such as ER

- **Access to excellent efficiency and workflow:**

Perform exams seamlessly with intuitive system handling

- **Access to rapid, high-quality images:**

Get excellent images within seconds to facilitate fast diagnoses

MobileDiagnost wDR offers you the superb quality and full efficiency of Philips' premium DR rooms packed into a flexible mobile X-ray system. Quick decisions are made possible thanks to rapid image availability with the lightweight SkyPlates, Philips cassette-sized wireless portable detectors. To streamline your workflow, you can choose to use SkyFlow, the scatter correction technology, which can provide high chest image contrast without grid handling. With the easy-to-maneuver MobileDiagnost wDR you'll reach every area of the hospital – and new levels of imaging flexibility.

A new movement on wheels

Whether in trauma rooms, neonatal intensive care units (NICUs) or operating rooms (ORs), MobileDiagnost wDR provides tangible benefits for everyone involved in mobile radiography. Technologists will appreciate the easy positioning and your patients will receive prompt, quality care. What's more, radiologists have quick access to excellent digital images and administrators benefit from a cost-efficient system for all hospital areas.



Excels in acute areas

Easily maneuver the robust MobileDiagnost wDR with its motorized drive and compact wheelbase to every area of the hospital. The light weight SkyPlates set an industry standard for use wherever you need it. The large SkyPlate comes in handy for free exams and in OR tables, whereas the smaller-sized SkyPlate is tailor-made for common incubators at the NICU as well as adult shoulder, skull and extremity views.

The elements of rapid workflow

Seamless workflow is facilitated with the premium Eleva user interface that unites all tools and controls via touch-screen functions. Medical staff will need only a brief initial training. The 7 patient types setup allows that critical exam parameters are adapted according to patient size for superb image quality and excellent dose management. What's more, the efficient Eleva Review Plus concept comes with a full screen mode to help visualize critical image areas.

Ease at the unit

The SkyPlates allow you to perform exams quickly and easily, supported by the telescopic tube arm and the fine positioning operated from the tube head. The SkyFlow feature can also cater to fast workflow, permitting high image contrast for chest X-rays without grid handling. On top of that, you have the choice between the entry-level MobileDiagnost wDR performance version for all standard X-rays and the high performance version which expands the range to bariatric and spine trauma patients.

Images within seconds

MobileDiagnost wDR is equipped with the highly regarded UNIQUE image processing for superb full resolution image results within seconds. You can view the images on the large 17" monitor and then immediately send them via the

hospital network to PACS. This is made possible thanks to the Eleva Workflow Plus tools which also, for example, provide automatic LR markers for clear identification.

Premium care

The SkyPlates and the SkyFlow feature contribute to fast procedures. Since the SkyPlates are stored directly in the unit you always have them within reach – along with the spare battery which is charged in the unit. Use the detector that matches your exam requirements, either the large SkyPlate or the small SkyPlate.

SkyFlow

You can also choose to free up your workflow with SkyFlow. Without the inconvenience of an anti-scatter grid, you'll be able to work fast and freely, avoiding the time and effort associated with attaching and detaching a grid. You'll get high chest image contrast with less handling and less weight. This also applies to SkyFlow chest X-rays for bariatric patients. If you choose to use SkyFlow, you can benefit from an additional workflow advantage: eliminating the grid means eliminating retakes caused by grid misalignment.

Impressive integration

MobileDiagnost wDR shares its key benefits with the premium Philips DR rooms. Experience integrated procedures by working with premium Eleva and UNIQUE throughout the department. On top of that, you can share SkyPlates between the new releases of MobileDiagnost wDR, premium DigitalDiagnost DR rooms, DuraDiagnost DR rooms and ProGrade, Philips easy upgrade from analog to digital, to create flexibility and cost efficiency in the department. With more than 7,000 Philips digital units in use, place your trust in premium digital radiography. Discover the advanced MobileDiagnost wDR procedures and gain VIP access to all areas of the hospital.



With MobileDiagnost wDR everyone benefits

- **Administrators:** Your hospital advances to another level of efficiency with the performance or high performance versions that cater to individual department needs
- **Radiologists:** Radiologists get rapid access to premium quality digital images which facilitates fast diagnoses
- **Technologists:** Technologists experience seamless procedures via lightweight SkyPlates, the premium Eleva interface and motorized mobility
- **Patients:** Patients receive prompt point-of-care exams thanks to a mobile DR system that offers rapid, high quality images

Technical specifications

Mobile unit

Type	Mobile X-ray unit with telescopic X-ray tube arm and wireless portable detector
Dimensions (l x w x h)	long column: 1380 mm x 670 mm x 1980 mm (54.3" x 26.4" x 78") short column: 1380 mm x 670 mm x 1850 mm (54.3" x 26.4" x 72.8")
Wheel base length	611 mm (24.1")
Motorization	0 – 5 km/h (0 – 3.1 mph)
Focal point distance from floor	Standard column: 55 to 202 cm (21.7" to 79.5") Short column: 55 cm to 189 cm (21.7" to 74.4")
Focal point distance to column	max: 1250 mm (49.2") min: 700 mm (27.5")
Tube column rotation	± 315°
Batteries	Separate batteries for drive and generator control
Power for charging	single phase 230/220/110/100 VAC ± 10%; 50/60Hz
Fine positioning from tube head	
Anti-collision sensor and brake	

Generator and tube

Performance

Power: high frequency	20 kW
Tube voltage in steps of 1 kV	40 – 125 kV
mA range	10 to 320 mA
mAs range	0.1 – 500 mAs
Exposure times	With SkyPlate: 0.001 – 1.25 s With free cassette: 0.001 – 4 s
Anode heat storage capability	100 kJ (140 kHU)
Focal spot (small/large)	0.3 / 1.0

Generator and tube

High performance

Power: high frequency	40 kW
Tube voltage in steps of 1 kV	40 – 150 kV
mA range	10 to 500 mA
mAs range	0.1 – 500 mAs
Exposure times	With SkyPlate: 0.001 – 1.25 s With free cassette: 0.001 – 4 s
Anode heat storage capability	220 kJ (300 kHU)
Focal spot (small/large)	0.7 / 1.3

SkyPlate wireless portable detectors

Type	Digital Cesium Iodide (CsI)
Housing	Carbon fiber
Detector sizes	small: 24 cm x 30 cm (10" x 12") approx. large: 35 cm x 43 cm (14" x 17")
Active area	small: 22.2 cm x 28.4 cm (8.7" x 11.2") approx. large: 34.48 cm x 42.12 cm (13.6" x 16.6") approx.
Image matrix size	small: 1500 x 1920 pixel large: 2330 x 2846 pixel
Detector pixels	small: 2.9 Megapixels large: 6.7 Megapixels
Image resolution	up to 3.38 Lp/mm
Pixel size	148µm
Weight (incl. battery)	small: 1.6 kg (3.5 lbs) large: 2.8 kg (6.2 lbs) Except: North America & China: 3.0 kg (6.6 lbs)
Maximum patient weight	100 kg (220 lbs) on 4 cm disk for weight bearing examinations 135 kg (298 lbs) for distributed load

Click on grids in portrait or landscape orientation

Eleva user interface

Monitor	17" touch-screen monitor
Image storage	up to 4,000 images
Generator control integrated into graphical user interface	more than 600 pre-programmable settings (APRs)
UNIQUE multi-resolution image processing	

Options

SkyFlow scatter correction	
Remote control for exposure and collimator light	
Dose Area Product meter	
Detector holders, grids, handle frame for SkyPlates	

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