



PHILIPS

MobileDiagnost M50

Mobile digital radiography

Opt for performance and price

MobileDiagnost M50

The need for compromise is over. MobileDiagnost M50 is small, fast, and flexible, delivering quality diagnostic images on a managed budget.

Based on decades of Philips expertise and innovation, this powerful compact mobile digital X-ray system is designed for all-around performance and fast return on investment.

It moves through crowded spaces in the OR, ER, ICU and general wards with freedom and ease, bringing digital imaging right to the bedside.

Key advantages

- Superb ease-of-use with convenient wireless workflow
- Wide range of diagnostic capabilities
- Excellent price to performance balance





Discover value in your search for quality

M50 is an important member of our MobileDiagnost family of mobile radiography systems. It blends the power, speed, and experience of Philips digital performance with the convenience and flexibility of mobile radiography. And it does so in a cost effective manner.

Fast images, available anywhere

When reliable uptime and solid performance are mandatory, MobileDiagnost M50 is an excellent choice. Lightweight and maneuverable with a durable wireless digital detector, you can take the MobileDiagnost M50 to virtually every corner of the hospital.

An available 32kW generator lets you confidently perform a full range of demanding X-ray examinations including spine and bariatric cases. Special APR control permits an exposure time of just 1ms, capturing quality images with effective dose management. This short exposure time is great for pediatric cases because it enhances image quality by reducing motion artifacts.

The wireless digital detector saves you valuable time and is perfect for free exams and in OR tables. Easily positioned, lightweight and cable-free, the detector improves patient handling/comfort and reduces interference with other medical equipment. Real-time communication between the detector and the X-ray system is independent of your hospital IT network. With these features, MobileDiagnost M50 delivers all-round performance that makes it a solid option for a whole range of needs.

The MobileDiagnost M50 has an additional WiFi connection to the hospital network using standard wireless technology to integrate the images into the hospital's IT network. Images can be quickly transferred to DICOM, PACS, or your printer.

Easy to use – easy to move

MobileDiagnost M50 is equipped with a digital Eleva workspot and the same intuitive Eleva user interface design found across our DXR portfolio. This uniformity reduces the need for extensive user training. With only three clicks to complete an examination, Eleva's pre-sets and customized user profiles enhance your work environment and promote strong workflow continuity. The big 19" touchscreen displays images within 14 seconds after acquisition and those images can be quickly transferred to DICOM, PACS, or printer.

The monitor can be rotated on two axes for greater flexibility. It easily adjusts to operators of different height and can be swung away to avoid obstacles during transport.

UNIQUE image processing algorithms are the same as those found in our premium X-ray systems. UNIQUE automatically delivers consistently uniform clinical image quality for all anatomical areas by adjusting the balance between overexposed and underexposed areas – even for difficult acquisitions. Before your image presents on the screen, it has been optimized by UNIQUE.

A bright collimator light and the source-to-image distance (SID) laser light option support fast, accurate patient positioning and lead to fewer retakes. An integrated dose area product (DAP) is available to provide the relevant information you need for monitoring patient X-ray dose in an easy to interpret format.

The MobileDiagnost M50 is lighter in weight (195 kg/430 lbs) and more compact than motorized systems. This smaller form factor helps it fit easily into tight and difficult hospital spaces. The Eleva workspot's onboard battery maintains system uptime during moves from location to location.

Save battery power with the MobileDiagnost M50 sleep mode. The system automatically goes into sleep mode when not in use, but awakens quickly without the need to reboot the PC. Your battery life is longer and your workflow smoother.

Go digital affordably

MobileDiagnost M50 offers you an easy way to enter the digital world. The lower price point makes it a great option for smaller clinics or facilities looking for a single system to cover most application needs. It's also perfect for hospitals that require multiple digital mobile systems.

With a proven digital image chain, MobileDiagnost M50 enables fast image viewing for enhanced efficiency, eliminating the time and expense associated with CR systems.

In addition, to ease your move into digital radiography, we also offer a digital-ready analog configuration, MobileDiagnost Opta (Analog). The MobileDiagnost Opta (Analog) can be easily upgraded to digital whenever you are ready.

Reliability built-in

Key to any purchase decision is confidence in reliability. With Philips, that's built-in. Design of the MobileDiagnost M50 is based on Philips strong and proven history of medical imaging innovation.

The rugged, wireless detector is designed to withstand shocks and vibrations and is stable at a wide range of temperatures and humidity. Its large imaging area of 35 x 43 cm (14" x 17") provides great coverage for your anatomical areas of interest. You'll enjoy long-lasting performance, year after year.

Your system is also supported by Philips global service network to help ensure continuous uptime and productivity.

Designed for a long lifetime, MobileDiagnost M50 offers an excellent balance of performance and price, enhanced cost-efficiency, and a fast return on investment.

Advantages of MobileDiagnost M50

A move to digital helps stakeholders across the caregiving process:

- **For the patient:**
 - Prompt, comfortable bedside exams with exceptional results and a managed X-ray dose
- **For the radiographer:**
 - Smooth workflow thanks to small form factor, ease of positioning, wireless detector, and UNIQUE post-processing
- **For the radiologist:**
 - Fast and accurate diagnoses via rapid access to digital quality images wirelessly transferred to hospital network
- **For the hospital administrator:**
 - Digital image viewing within 14 seconds helps support high patient throughput and improve bedside care
- **For the purchasing department:**
 - Excellent price to performance balance with all the benefits of digital imaging



High level specifications

Type	Digital Mobile X-ray unit with wireless detector
Dimensions - In Operation (L x w x h)	max. 1836 mm x max. 618 mm x max. 2293 mm (max. 72.3"x max. 24.3"x max. 90.3")
Dimensions - Transport (L x w x h)	1371 mm x 618 mm x 1500 mm (54"x24.3"x59")
Mains Supply	230V/115V, single phase, 50 Hz (60 Hz)
Mains fuse	16A
Detector storage	One detector
Weight	195 kg (430 lbs)appx
Source to floor distance	416 mm to 2056 mm (16.4" to 81")
Handswitch with release button	Yes

Generator	16 kW	32 kW
Power	16 kW	32kW
Type	High frequency	High frequency
kV range	40 - 125 kV (1kV steps)	40 - 125 kV (1kV steps)
mA range	50-200 mA	50-320 mA
mAs range (dependent on kV range)	0.1-110 mAs (12.5% steps)	0.1-110 mAs (12.5% steps)
Exposure times (dependent on mAs selection)	0.001-1s	0.001-1s
Small focus / Large focus	small focus (0.8)	small and large focus (0.8 and 1.3)

Eleva Workspot	
Hard disk	500 GB
Image storage	Typically 4,000 images
Monitor	19" LCD color touch screen monitor (1280 x 1024)
UNIQUE multi-resolution image processing	Yes
Battery capacity	4200 mAh
Matrix depth	16 bit/pixel

Detector	
Type	Digital Wireless flat detector
Scintillator	Gd ₂ O ₂ S
Detector size	35 cm x 43 cm (approx. 14" x 17")
Pixel size	139 µm
A/D conversion	16 bits
Image matrix size	2476 x 3072 pixels
Detector Pixels (MP)	7.6
Weight	3.6 kg approx. (7.93 lbs)
Autonomy listen mode	6 hrs
Autonomy operation mode	500 acquisitions (image acquisition cycle less than 20sec)

Collimator	
Type	Manual, with LED light field indicator
Rotation	+/- 120°
Filters	1 mm Al + 0.1 mm Cu 1 mm Al + 0.2 mm Cu 2 mm Al 0 mm Al
Filter select LED indication	Yes

Tube	
Type	Rotating anode
Nominal focal spot	
- small focus	0.8 (available in 16kW and 32kW)
- large focus	1.3 (available only in 32kW)
Anode thermal capacity	80kJ (107 kHU)
Speed (rpm)	3000

Optional Accessories

Remote control for exposure
Grids Landscape / Portrait
Handle frame for detector
Double laser line for 1m SID

MobileDiagnost M50 is not available for sale in North America

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