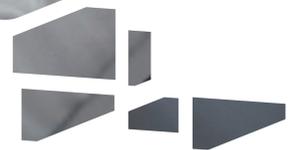


# AeroDR X10

✓ Digital Mobile X-ray System



**AeroDR**  
**X10**

# AeroDR X10

## SPEED UP YOUR WORKFLOW

Mobile X-ray systems are used throughout the hospital from the patient room to operating and emergency room. The AeroDR X10 Digital X-ray system enables you to perform digital diagnoses wherever you need to.

The need for fast, reliable, and high quality imaging is growing as technology shifts from analog or CR cassettes to wireless flat panel detectors. The Konica Minolta AeroDR wireless technology supports you to speed up your workflow by using the AeroDR X10: a manually driven mobile x-ray system with all the essential features that delivers high performance, even in confined spaces.



### Fully integrated digital mobile

The AeroDR X10 is a fully integrated mobile digital X-ray system that combines excellent mechanical and digital components to help you carry out exams more efficiently. For example the AeroNAV image

acquisition software, displayed on a 19" Touch screen, not only provides excellent images, AeroNAV also controls the generator by sending predefined exposure parameters for each examination.

## COMPACT AND LIGHTWEIGHT DESIGN

### Easy to use – Easy to move

The AeroDR X10 is equipped with the AeroNAV image acquisition and processing software. The AeroNAV user interface design is easy to use and therefore limits the need for extensive user training.

The monitor can be rotated on two axes for more flexibility. It easily adjusts in height and the collapsible column allows for smooth transport. A bright collimator light and the SID laser light option, support fast patient positioning.

The optional remote control can be used to make exposures and control the collimator light.

An integrated DAP is available optionally to provide the information on the received patient X-ray dose.

The AeroDR X10 weighs less and is more compact than motorized systems, which makes it easier to move around in small spaces.

# SMALL, FAST & FLEXIBLE

## Smart & Economical

AeroDR X10 is a powerful compact system with a smart, space saving design. This mobile digital X-Ray system is designed for allround performance and fast return on investment.

## Easy positioning

Since AeroDR detectors are among the lightest in their class, it makes it truly easy to position the detector for bedside exams. The detectors can easily be used in the emergency room, because they are waterproof and are protected from liquids and body fluids.

## In-bin charging

The AeroDR detector can easily be stored and at the same time automatically charged in the bin. Making use of the Konica Minolta unique Lithium-Ion-Capacitor technology of the AeroDR detectors, the AeroDR X10 allows in-bin charging while the system is plugged into a wall socket. Allowing the panel to be charged while the mobile is in the parking position; ready when you need it.



## Powerful and robust

32 kW power and the double-focus X-ray tube allows to capture X-ray images of all body areas with a high level of detail.

AeroDR X10 can be combined with all Konica Minolta's robust, carbon fiber flat panel detectors which are available in three sizes: 10"x12", 14"x17" or 17"x17".

## Wireless connectivity

Not only do AeroDR detectors provide wireless communication for effortless usage at the patient's bedside, also the communication towards the hospital network (RIS/PACS) is wireless. Images can be made available for further diagnosis immediately after the acquisition.

# HIGH QUALITY DIGITAL DETECTORS

**Speed** - Its improved cycle time of 6 seconds in Wireless mode, allows you to do more exams per day and enables you to achieve a quicker diagnosis.



**Capacitor** - With a charging time of only 30 minutes, the AeroDR HD is completely charged from empty to full.



**Lightweight** - Konica Minolta's AeroDR HD is one of the world's lightest 14x17 inch Flat Panel Detectors (2.6kg).



**Robust** - The AeroDR was already known for having a high surface load (400 kg), making it suitable to be used with all types and sizes of patients.



**Waterproof** - The AeroDR HD is waterproof (IPX6).



**AED** - The hybrid detection technology inside the detector has contributed to an even more reliable Automatic Exposure Detection (AED) with AeroSync.



**100% Wireless** - The portable kit is completely wireless both for data transmission as well as power supply.

**100 µm resolution** -

- Display micro structures
- Better visibility of trabecular bone
- Edge of the bone is more clear
- No "pixel shape" when zooming in
- Higher DQE and Lower Radiation doses

## LIGHTWEIGHT & ROBUST

The AeroDR X10 can be equipped with all Konica Minolta portable detectors. From 10"x12" which fits in most incubators, to 14"x17" for daily routines up to 17"x17" for chest exams. Of course, all Konica Minolta detectors are designed to be reliable and robust.

### Lightest detector

By thoroughly reviewing the housing and components, we have been able to reduce the weight of the AeroDR detectors. For example, the AeroDR HD 1417 weighs only 2,6 kg and is therefore comparable with standard CR cassettes of the same size.

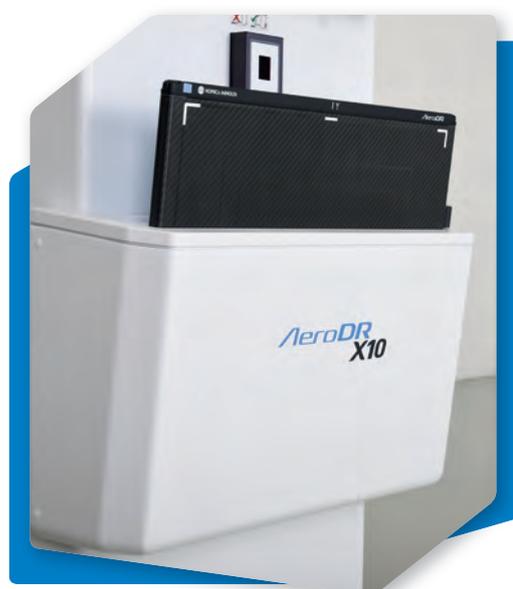
### Durable carbon fiber housing

Because we use the same housing technology, carbon fiber reinforced plastic, all our AeroDR HD detectors have a surface load up to 400 kg.

### High performance capacitors

Konica Minolta has chosen a capacitor for its AeroDR detectors instead of battery to allow quick 0 to 100%

charging time of just 30 minutes or less for AeroDR and less than 13 minutes (!) for AeroDR 2S. This means the detector is ready when you are. Using this unique capacity technology, there is no loss of charging capacity and there is no need to replace the power unit during the lifetime of the detector like you would with e.g. Li-ion batteries. In addition, there is no risk of overheating while in use or being charged ensuring additional safety for you and your patients.



## Water resistance

X-ray detectors may be accidentally exposed to water or body fluids when used in demanding environments such as emergency rooms. To prevent possible damage to the interior of the detector, the

AeroDR HD, AeroDR Premium and AeroDR 2S have been equipped with an IPX6 certified waterproof housing. This also allows for easy and more effective disinfection and cleaning when needed.



## AeroNAV Software for optimized workflow

AeroNAV provides a simple and intuitive user interface for complete workflow control. From the collection of patient data to image optimization, flexibility and ease of use are guaranteed.

### Preview image in less than 2 seconds

In less than 2 seconds after exposure, a preview image pops up on the console display. Our user-friendly graphical interface is configurable; this enables you to set it up exactly the way you would like to.



Options



Rotating Arm



Collimator with double laser line for 1m SID definition



Remote Control

## ➤ AeroDR X10 Technical Specifications

Mobile Unit	AeroDR X10	AeroDR X10R
<b>Weight</b>	Standard Unit: 170 Kg	Standard Unit: 240 Kg
<b>Size (LxWxH)</b>	Standard Unit 1.366 x 618 x 1.444 mm	Standard Unit 1.489 x 695 x 1.504 mm
<b>Console Screen</b>	19" Touch Screen	
<b>Wheels diameter</b>	80 mm front; 250 mm rear	100 mm front; 300 mm rear
<b>Handle height</b>	949 mm	932 mm
<b>Focus-floor distance</b>	417 - 2.092 mm	444 - 2.153 mm
<b>Monobloc rotation around sagittal axis</b>	± 180°	
<b>Monobloc rotation around transversal axis</b>	151° (102° ahead 49° back)	
<b>Holder for detector</b> (incl. charger function)	10"x12" (25x30 cm) 14"x17" (35x43 cm) 17"x17" (43x43 cm)	
<b>Power supply</b>	115 / 230 Vac ±10%, 50/60 Hz Max. line resistance < 1 Ω Connection to standard mains outlet 16 A	

Collimator	
<b>Type</b>	Manual, with LED light field indicator
<b>Rotation</b>	± 120°
<b>Double laser line for 1m SID</b>	Yes, Optional
<b>Filters</b>	1 mm Al + 0,1 mm Cu 1 mm Al + 0,2 mm Cu 2 mm Al
<b>Filter select LED indication</b>	Yes
<b>Extractable meter for SID measure</b>	Yes

X-Ray Tube	
<b>Type</b>	Monobloc MHF2030
<b>Rotating anode</b>	3.000 rpm
<b>Double focal spot</b>	0,8 and 1,3 mm
<b>Anode thermal capacity</b>	80kJ (107 kHU)
<b>Nominal focus power</b>	16 kW small focus; 32 kW large focus
<b>Anodic diameter</b>	64 mm
<b>Anodic angle</b>	15°
<b>Anode material</b>	Tungsten-Rhenium (focus track) Molybdenium+ Titanium+ Zirconium (anode mass)
<b>Max. continuous anode dissipation</b>	300 W

X-Ray Generator	
<b>Output Power [kW]</b>	32 kW
<b>kVp range</b>	40 - 125 kV (1kV steps)
<b>mA range</b>	50 - 400 mA according to kV selection
<b>mAs range</b>	0,1-110 mAs (12,5% steps) (depended on kV range)
<b>Exposure time range</b>	0,001-1,1 s (according to mAs selection)

Options
Dose Area Product (DAP) meter
Remote control
Collimator with double laser line for 1m SID definition
Rotating arm

## AeroDR X10 Technical Specifications

AeroDR Detector Family	
Detector Type	Indirect Conversion
Scintillator	CsI
Battery Type	Lithium Ion Capacitors
Housing material	Carbon Monocoque Design
Communication	Dedicated wired Ethernet connection / Wireless LAN (IEEE 802.11a/n <sup>(1)</sup> compliant)

Product	AeroDR 1012 HD	AeroDR 1417 HD	AeroDR 1717 HD
Dimensions	282x333x15 mm	384x460x15 mm	460x460x15 mm
Weight	1,5 kg	2,6 kg	3,2 kg
Pixel Matrix	2.456 x 2.968	3.488 x 4.256	4.248 x 4.248
Image Preview	< 2 sec	< 2 sec	< 2 sec
Cycle Time	5 sec (wireless)	7 sec (wireless)	7 sec (wireless)
Battery Performance	Up to 145 exposures and 3,9 hours(100μ) Up to 165 exposures and 4,5 hours(200μ)	Up to 251 exposures and 6,9 hours(100μ) Up to 309 exposures and 8,6 hours(200μ)	Up to 217 exposures and 6,0 hours(100μ) Up to 276 exposures and 7,6 hours(200μ)
Charging time	20 min or less	30 min or less	30 min or less
Max. load	400kg (entire imaging area)	400kg (entire imaging area)	400kg (entire imaging area)
Waterproof	IPX6	IPX6	IPX6

Product	AeroDR 1417 HQ (Premium)
Dimensions	383,7 x 460,2 x 15,9 mm
Weight	2,6 kg
Pixel Matrix	1.994 x 2.430
Image Preview	< 2 sec
Cycle Time	6 sec (wireless) <sup>(2)</sup>
Battery Performance	300 images / 8,2 hrs <sup>(2)</sup>
Waterproof	IPX6
Charging time	30 min or less
Max. load	300kg (entire imaging area)

Product	AeroDR 1012 HQ	AeroDR 1417 HQ	AeroDR 1717 HQ
Dimensions	281,8 x 333,0 x 15,9 mm	383,7 x 460,2 x 15,9 mm	459,8 x 460,2 x 15,9 mm
Weight	1,7 kg	2,9 kg	3,6 kg
Pixel Matrix	1.404 x 1.696	1.994 x 2.430	2.428 x 2.428
Image Preview	< 2 sec	< 2 sec	< 3 sec
Cycle Time	6 sec (wireless) <sup>(2)</sup>	8 sec (wireless) <sup>(2)</sup>	9 sec (wireless) <sup>(2)</sup>
Battery Performance	146 images / 4,0 hrs <sup>(2)</sup>	211 images / 5,8 hrs <sup>(2)</sup>	189 images / 5,2 hrs <sup>(2)</sup>
Charging time	30 min	30 min	30 min
Max. load	300kg (entire imaging area)	300kg (entire imaging area)	300kg (entire imaging area)

Product	AeroDR2 1417 S
Dimensions	383,7 x 460,2 x 15,9 mm
Weight	2,5 kg
Pixel Matrix	1.994 x 2.430
Image Preview	< 2 sec
Cycle Time	6 sec (wireless) <sup>(2)</sup>
Battery Performance	150 images / 4,1 hrs <sup>(2)</sup>
Waterproof	IPX6

\* <sup>(1)</sup> n only for AeroDR HD and AeroDR 2 detectors

\* <sup>(2)</sup> under the condition that the interval between studies is 5 minutes and 3 images are captured in each study

\* <sup>(3)</sup> optional "High Performance license" required