



KONICA MINOLTA

# AeroDR

WIRELESS DIGITAL RADIOGRAPHY SYSTEM



▶ *High Image  
Quality*

▶ *Light Weight  
& Durable*

▶ *Easy Workflow  
& Reliability*

Giving Shape to Ideas

## ► High Image Quality

### Scintillator Direct-Contact Technology

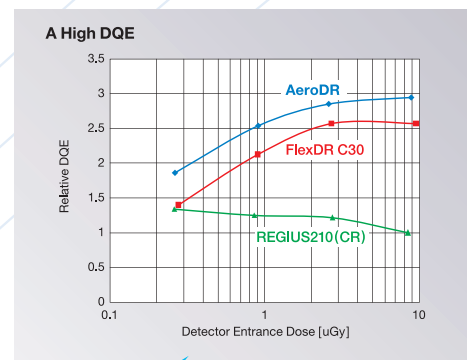
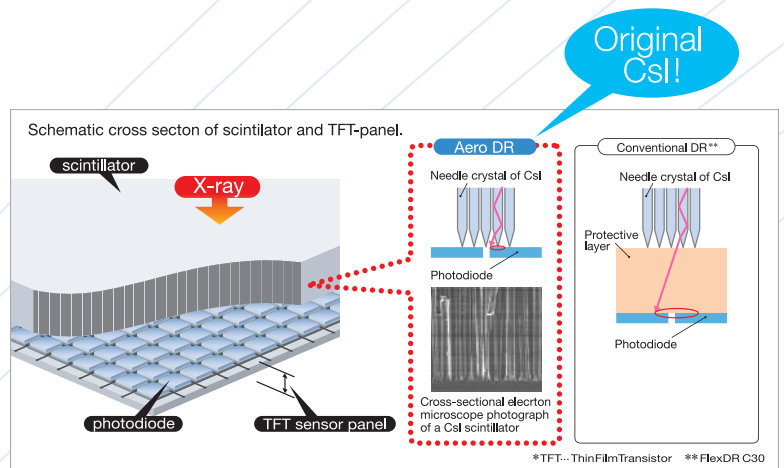
We succeeded in creating a new technology whereby a CsI scintillator is made to contact directly over a TFT\* sensor panel without any protective layer in between them. This technology has made it possible to guide the light emitted from the scintillator to the photodiode more efficiently and with less noise.

### High Image Quality

The optimal combination of the Aero DR detector using a Konica Minolta manufactured CsI scintillator with our newly developed low noise readout ICs delivers high DQE.\*

At the same time, Aero DR delivers a wider dynamic range for DR which is comparable to CR. This means that in a radiograph of shoulder joints, for example, the Aero DR extended dynamic range permits visualizing the skin line accurately even when the radiographic conditions change along the way.

\*DQE Detective Quantum Efficiency

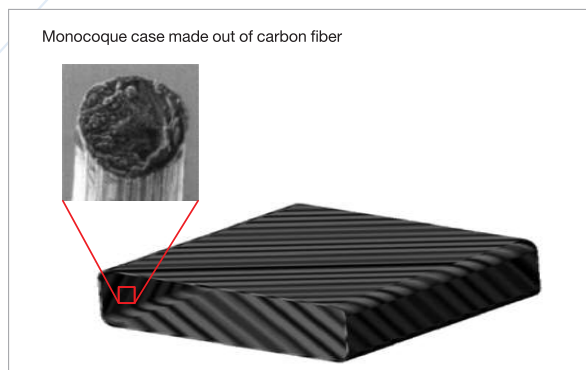


High DQE!

## ► Light Weight & Durable

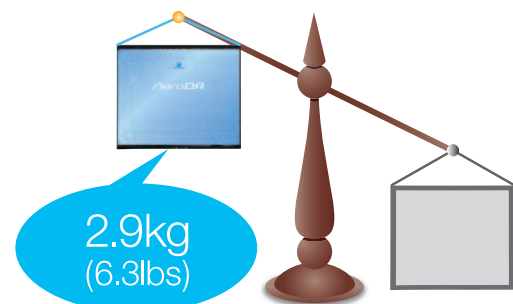
### Durable Monocoque Structured Cassette

We adopted the “monocoque case” to ensure reliable operation even under substantial shock or load. Since the battery is incorporated in the cassette, the Aero DR has no notch for battery replacement which is known to reduce the structural integrity of the case. Because of this, the Aero DR cassette case is light weight and high in strength. The load bearing performance of the Aero DR wireless FPD cassette is the same as that of our CR cassette.



### World's Lightest Weight Wireless FPD

The Aero DR Detector is the lightest FPD in the world weighing as little as 2.9 kg (6.3 lbs) and supports wireless networking which transmits captured images to the console. The Aero DR Detector is also available in a 17 x 17" size and weighs a mere 7.92 lbs. Technologists can easily perform non bucky exams such as table top or cross table projections.



## ► Easy Workflow & Reliability

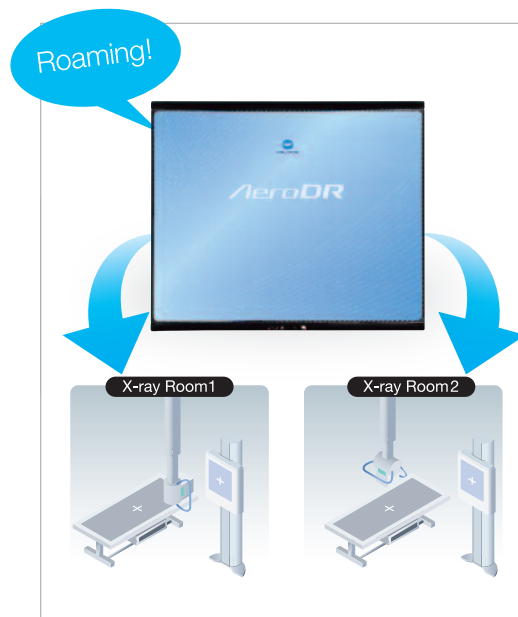
### Universal Solution for Existing X-ray Room

The Aero DR detector is the same size as an ISO 4090 compliant film cassette and will therefore fit any existing standard size wall-stand or table bucky tray.



### Roaming FPD Solution

Aero DR can be used anywhere with “the Shared FPD Solution.” As soon as Aero DR is registered to any X-ray room it is immediately ready to use.



### Quick Preview and Smart GUI

After exposure, a preview image quickly appears on the display on the new CS-7 console in less than two seconds. The CS-7 has a user-friendly graphical user interface (GUI) adding new and powerful proprietary functions. The GUI design can be modified to meet customer preferences and flexibility needs.

### New Energy-saving, Rapidly Rechargeable, Long-Life Battery In a Light, Durable Case

Aero DR provides enough energy to acquire over 10 images by the capacitor being recharged for only three minutes. A lithium ion capacitor, the world’s newest technology, was chosen for its power saving advantage and because it has a charge and discharge cycle life that is longer than that of a lithium ion battery. It won’t need to be replaced during the expected life cycle of the detector and, the rigid structure of the case is strong yet so simple it significantly reduces the weight of the cassette.

Battery Life Cycle	5 – 7 years
Charging Time Empty to Full	30 minutes with battery charger
Operating Time	5.5 hrs for 200 images

# Aero DR Wireless Digital Radiography System Specifications\*

## Aero DR system 14 x17 inch /17x17 inch detector

	14 x 17 inch	17 x 17 inch
<b>Type</b>	Portable flat panel detector based on amorphous silicon (a-Si)	
<b>Scintillator</b>	Csl (Cesium Iodide)	Csl (Cesium Iodide)
<b>Weight</b>	2.9kg (6.38 lbs.)	3.6kg (7.92 lbs.)
<b>Pixel size</b>	175µm	175µm
<b>Image Field</b>	1,994 x 2,430 (4.8 million pixels)	2,430 x 2,434 (5.9 million pixels)
<b>Power/Communications Tether</b>	Possible	Possible
<b>WLAN Standard</b>	WLAN standard IEEE 802.11a	WLAN standard IEEE 802.11a
<b>Dynamic Range</b>	4 digits	4 digits
<b>Dimensions (W x D x H)</b>	15.1 x 18.1 x .6 inches	18.1 x 18.1 x .6 inches
<b>Charging Time Empty to Full</b>	30 minutes with battery charger	30 minutes with battery charger
<b>Operating Time</b>	5.5 hours/200 images	4.8 hours/173 images
	Under conditions that the interval between studies is five minutes and three images are captured in each study.	
<b>Battery Life Cycle</b>	5 – 7 years	5 – 7 years

## Aero DR system console CS-7

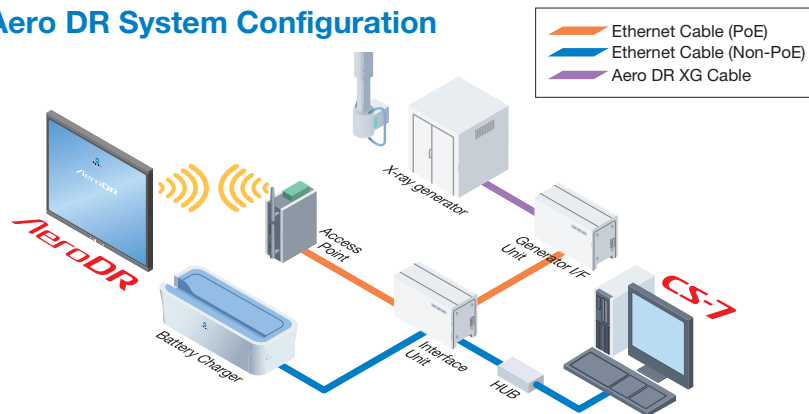
<b>User Interface</b>	Touch screen interface	Touch screen interface
<b>DR Imaging Functions</b>	HIS/RIS patient data access via DICOM Modality Worklist, advanced image processing, image review, image transmission	

\*Specifications are subject to change without notice.  
Aero DR is not intended for Mammography

## Aero DR Control Station CS-7

<b>Image Processing</b>	Automatic Gradation Processing (G Processing); Frequency Processing (F Processing); Equalization Processing (E Processing); Hybrid Processing (H Processing); Hybrid Smooth Processing (HS Processing)
<b>Image Output</b>	<b>Maximum:</b> Host: Up to 4 channels; Printer: Up to 2 channels
<b>DICOM Support</b>	Basic Grayscale Print Management (SCU); Storage (SCU); Modality Worklist Management; Modality Performed Procedure Step; Grayscale Standard Display Function (print output)
<b>CR/DR Connections</b>	Aero DR: Up to 4 simultaneous active detectors REGIUS Cassette Reader: Up to 15 units
<b>Main Options</b>	<b>Hardware Options:</b> Bar-code Reader for REGIUS Cassette Registration; In-room Sub Monitor <b>Software Options:</b> DICOM MWM/MPPS/DETACHED, FTP; DICOM Storage Output; DICOM Print; X-ray Generation Connection; Media Storage; Text Annotation; Automatic Body Part Recognition; Automatic Processing Parameter Study

## Aero DR System Configuration



## Introducing New 17 x 17" Size

- Wireless 17 x 17" a-Si/CsI Flat Panel Detector delivers new workflow benefits to patient care
- Super light weight for easy handling and positioning
- Large 17 x 17" image area may reduce the need to re-expose due to missed anatomy
- Premium CsI scintillator contributes to high DQE performance and excellent image quality
- Wired operation in the bucky, wireless operation everywhere else.

## Konica Minolta's Commitment to Customer Satisfaction

At Konica Minolta, your complete satisfaction is our number one goal. From pre-installation through the lifetime of your investment, our professional staff provides the technical expertise you need. Project Management, Applications Training, and Field Services are different teams of Konica Minolta professionals that work together to maintain your continued satisfaction over the lifetime of your investment.

Protect your DR equipment investment and ensure your operational excellence by choosing the right Aero DR Customer Satisfaction Agreement that meets your department needs. Talk with your Konica Minolta Representative to find the right match and coverage for your facility and budget.



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KONICA MINOLTA

WIRELESS DIGITAL RADIOGRAPHY SYSTEM

**AeroDR**

10 x 12 INCH FLAT PANEL DETECTOR

Right Size Your Imaging Solutions



Giving Shape to Ideas

# Easy to Use, Versatile, Dose Efficient

Light weight design enables easy positioning and handling by patients and technologists.

Share the AeroDR 10x12 detector between departments by leveraging the AeroDR Panel Roaming feature.

High efficiency cesium iodide scintillator for dose conscious procedures while maintaining desired image quality.

## Hospital

For the hospital market, the new AeroDR 10x12 wireless panel features a high efficiency cesium iodide scintillator which delivers high DQE that contributes to outstanding image quality. This versatile 10x12 panel can be shared among departments by leveraging the AeroDR Panel Roaming feature.

## NICU

For the NICU market, the new AeroDR 10x12 conforms to international standard dimensions allowing the detector to be used in incubator trays for examination of newborns, as well as in existing x-ray rooms without any modifications. Reliable and dose efficient, the new AeroDR panel helps improve patient care.

## Orthopedic

For the orthopedic market, the new AeroDR 10x12 wireless panel is an ideal solution which can be positioned for extremity and specialty views such as sunrise patella. Light weight design enables easy handling and positioning by both patients and technicians, minimizing the risk of damage from mishandling.



Three versatile panel sizes complete the AeroDR line up.

### AeroDR 10x12 Wireless Digital Radiography System HQ Specifications

<b>Detection Method</b>	Indirect conversion method
<b>Scintillator</b>	CsI (Cesium Iodide)
<b>Dimensions (WxDxH)</b>	11"x 13"x .6"
<b>Pixel Size</b>	175 µm
<b>Weight</b>	3.7 lbs. (including battery)
<b>Weight Bearing Capability</b>	330 lbs. / 660 lbs. full image field
<b>Communication</b>	Dedicated wired Ethernet connection / Wireless LAN (IEEE802.11a compliant)
<b>Image Preview Time</b>	Less than 2 seconds
<b>Cycle Time</b>	Approx. 7 seconds (with dedicated wired connection); Approx. 9 seconds (with wireless LAN connection)
<b>Image Field</b>	1,404 x 1,696 pixels
<b>Battery Type</b>	Lithium ion capacitor
<b>Battery Charging Time</b>	Within 30 minutes (from empty to full)
<b>Number of Exposure Images</b>	146 images / 4 hours

Under conditions that the interval between studies is five minutes and three images are captured in each study.

### AeroDR Battery Charger

<b>Power</b>	100/110/115/120/200/220/230/240 VAC
<b>Dimensions (WxDxH) / Weight</b>	18"x 7"x 8" / 12.5 lbs.

Specifications are subject to change without prior notice.



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