



Distributed by:

KONICA MINOLTA, INC.

1 Sakura-machi, Hino-shi, Tokyo, 191-8511, Japan

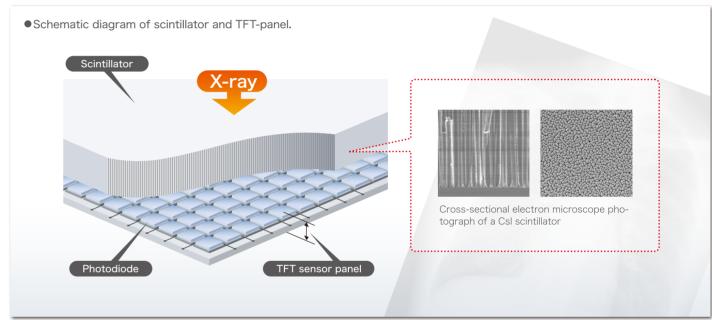




High Image Quality

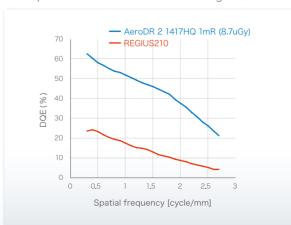
Scintillator technology

AeroDR offers a "needle crystal" Csl scintillator developed and manufactured by KonicaMinolta. The "needle crystal" Csl scintillator is a proprietary method to apply Csl developed through research and manufacturing experience to deliver high DQE*1.



High image quality at low x-ray dose compared to CR

The optimal combination of the AeroDR detector using a KonicaMinolta CsI scintillator combined with the newly developed low noise readout ICs deliver high DQE*1.





AeroDR SYSTEM series

Best AeroDR models are selectable to improve current workflow.

Performance model

AeroDR 1417HQ

- Light weight at 2.9kg (6.4lb)
- •211 images / 5.8 hours*2
- Available for AeroSync

Value model

AeroDR 1417S

- Light weight at 2.8kg (6.2lb)
- •211 images / 5.8 hours*2

Performance model

AeroDR 1717HQ

- Light weight at 3.6kg (7.9lb)
- 189 images / 5.2 hours*2
- Available for AeroSync





Light weight of panel

- No need to detach cassette DR battery
- High durability for handling DR panel same as CR cassette
- AeroDR panel can fit existing wall-stands or table bucky trays

Durable monocoque structured cassette

■Use of CFRP (carbon fiber reinforced plastic)

The CFRP is a light and strong composite material hardened with weaved plastic resin.

■What is monocoque?

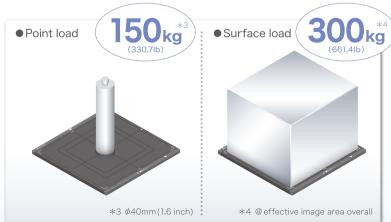
A monocoque structure refers to a method of construction used to support structural loads by use of an object exterior.



Durability against loading

We consider a variety of operation scenes of DR panels.

- \blacksquare 1-point load test : Cleared endurance test at 150kg (330.7lb) $\phi40\mathrm{mm}$ (1.6 inch).
- \blacksquare Surface load (uniform load) : Cleared endurance test on the entire surface of the 300kg (661.4lb) on image field.



** Deadweight, even when loaded on the AeroDR Detector, has no effect on images and the AeroDR Detector. The measurement method is based on KM standards.

Performance model

AeroDR 1012HQ

- Super light weight at 1.7kg(3.8lb)
- High image quality at lower X-ray dose compared to CR.
- 146 images / 4.0 hours*2
- Available for AeroSync



Accord R 333mm

Available in 3 versatile sizes.

1012HQ is last piece to complete AeroDR full size line up.

Recommended exposure scenes are X-rays in the field of orthopedics such as extremities, skyline and neonatal in NICU.







AeroDR SYSTEM 2 series

KonicaMinolta has reviewed the current AeroDR product features and developed new models.



PREMIUM model

AeroDR 2 1417HQ

- Top model of AeroDR series.
- Super light weight at 2.6kg (5.7lb)
- Rapid cycle time of 6 sec. in wireless operation
- ●Long operating time of 300 images/8.2hours*²
- AeroSync is available

Value model

AeroDR 2 1417S

- New value model with added values.
- Super light weight at 2.5kg(5.5lb)
- High Robustness same as AeroDR 2
 1417HQ PREMIUM
- Rapid cycle time of 6 sec. in wireless operation
- AeroSync is available



Lightest level detector in the world *5

AeroDR 2 1417S is the lightest level 14×17 inch size wireless cassette-type DR in the world. KonicaMinolta developed the ideal combination of components, grip materials and cover design to deliver a durable panel that weighs only 2.5kg (5.5lb). AeroDR 2 1417HQ and 1417S are ideal wireless cassette-type detectors that are easy for you to carry and for patients to hold.

*5 Among wireless cassette-type DRs as of 1st July. 2015





<Main features>

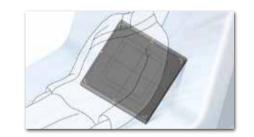
- Super light weight provides easy handling
- Highest robustness provides digitalization in various departments in a HP
- Speedy cycle time improves productivity of X-ray exams



Water resistance IPX6*6

Cassette-type DRs may be exposed to body fluids, disinfectants and other liquids accidently. KonicaMinolta considered that such accidents happen and achieved the water resistance grade IPX6. The structure of the AeroDR 2 1417 series does not allow liquids to penetrate or damage the main components.

*6 The product may fail to maintain its waterproof performance (equivalent to IPX6) if it has been dropped. The waterproof performance of this product does not guarantee that product damage or failure will not occur.



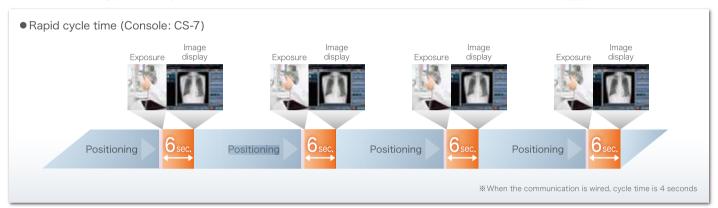
Load and bend resistance

KonicaMinolta developed the AeroDR 2 1417 series with actual user operation scenarios in mind. The AeroDR 2 1417 series provides the robustness of the current AeroDR series; as well, it has been cleared for the loading test assuming bedside exposure or exposure to the patient on a stretcher.

The AeroDR 2 1417 series achieved twice the robustness of the current AeroDR series and has especially enhanced durability against bending.

Rapid cycle time

The AeroDR 2 1417 series introduces rapid cycle time, reducing the time needed for image processing to six seconds to improve comfort while increasing productivity.



High-performance power cell



Safety

As lithium ion capacitor does not easily generate heat, it is safe to take exams while the panel is faced to a patient body.

■ Long battery life

Expected battery life is the same as that of the AeroDR main body. It is unnecessary to replace the battery pack while operating.

■ Long lasting to avoid stopping operation

8.2 hours and 300 images (AeroDR 2 1417HQ) / 4.1 hours and 150 images (AeroDR 2 1417S)

■ Fast battery charge to complete in a short time

From 0% to 100% within 30 minutes (AeroDR 2 1417HQ) / From 0% to 100% within 13 minutes (AeroDR 2 1417S)

CS-7

Its sophisticated functions will enrich your daily workflow of examination.

Integrated control station CS-7

CS-7 can control AeroDR detectors and connect to CR readers. $^{\ast 7}$

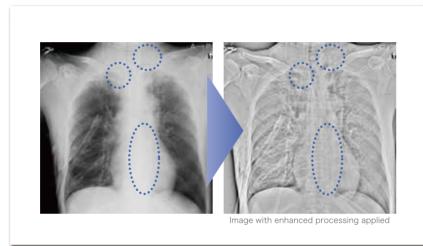


*7 Please contact your KonicaMinolta sales representative regarding which devices can connect to CS-7.

Tube and gauze image enhancement

CS-7 can highlight tube and gauze images that are difficult to be detected with normal images.

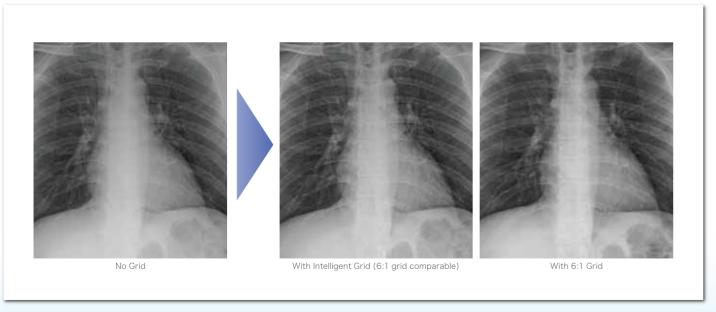
**Optional license is necessary to use this function



Intelligent Grid*8

This is image processing to improve contrast which is affected by scattered radiation without a grid. This function provides easy workflow, and the operator need not carry a grid to perform an exam. Three types of parameters are available from comparable grid ratios; 3:1/6:1/8:1.

**Optional license is necessary to use this function



*8 The image quality processed by 'Intelligent Grid' is not ensured to be same as the image quality obtained by using a grid.

ImagePilot

ImagePilot provides you with simple workflow by Integral-processing. And by using its image archiving and viewing functions you can also use it as a small PACS.



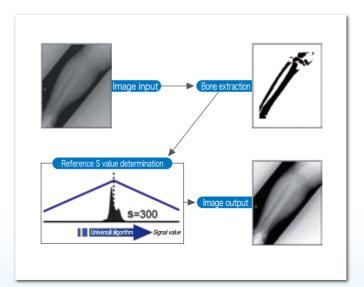
ImagePilot mobile client solution

By carrying the tablet, you can check the image in the examination room or ward. Descriptions of treated patients using the reference image or conferences between doctors can be easily conducted, improving service quality.



Revolutionary CR with Integral-processing

Integral Processing was created through the abundant CR installation experience of KonicaMinolta. It is a robust algorithm and offers a optimum diagnostic images. This patented technique eliminates the need for the user to define and select specialized parameters for each body part and orientation.



Flexible configuration means improved productivity and convenience

Capture images from additional modalities or import images from other sources. From the viewing screen, images can be printed, exported to a remote host, or written to removable media (CD/DVD etc.).



Flexible Workflow

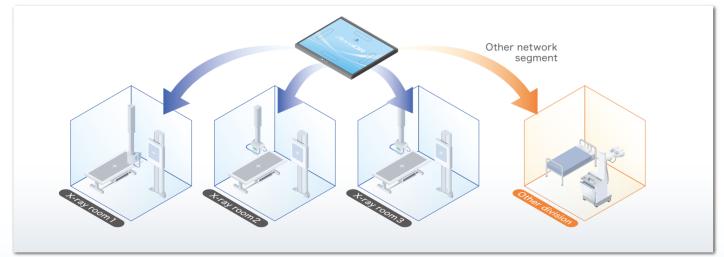
KonicaMinolta can propose convenient, rapid workflow with a reasonable number of panels.

X-ray auto detection mode "AeroSync"

AeroSync®, a new X-ray exposure synchronization technology, requires no cable connections to the x-ray generator. Image capture automatically begins when the AeroDR senses the X-ray exposure. Existing CR or analogue systems can be converted to DR systems by Aero-Sync easily without connecting to an X-ray system.

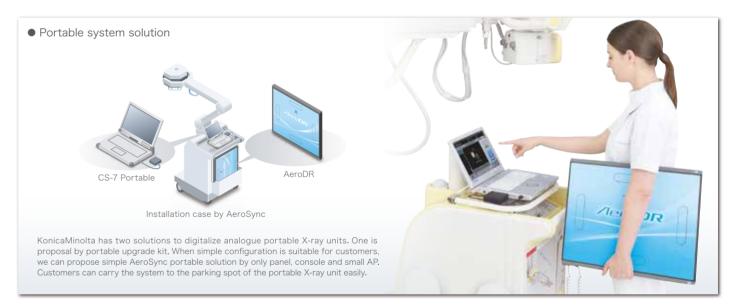


New roaming function



- The AeroDR SYSTEM 2 series panel can be carried to any other CS-7 console without concerns over network conditions.
- Necessary panels can be used where needed.







Specifications

AeroDR Detector (AeroDR SYSTEM)

Model name	AeroDR P-11(AeroDR 1417HQ)/ AeroDR P-12(AeroDR 1417S)/ AeroDR P-21(AeroDR 1717HQ) AeroDR P-31(AeroDR 1012HQ)			
Detection method	Indirect conversion method			
Scintillator	Csl (Cesium lodide)			
External dimensions (WxDxH) / Weight	AeroDR 1417HQ AeroDR 1417S AeroDR 1717HQ AeroDR 1012HQ	: 383.7×460.2×15.9 mm (15.1×18.1×0.6ind : 383.7×460.2×15.9 mm (15.1×18.1×0.6ind : 459.8×460.2×15.9 mm (18.1×18.1×0.6ind : 281.8×333.0×15.9 mm (11.1×13.1×0.6ind	ch) / 2.8kg (6.2lb) ch) / 3.6kg (7.9lb)	
Pixel size				
Image area size	AeroDR 1417HQ AeroDR 1417S AeroDR 1717HQ AeroDR 1012HQ	: 348.95×425.25 mm (13.7×16.7inch) (1,9 : 348.95×425.25 mm (13.7×16.7inch) (1,9 : 424.9 ×424.9 mm (16.7×16.7inch) (2,4 : 425.7 ×296.8 mm (9.7×11.7inch) (1,4	994×2,430 pixels) 428×2,428 pixels)	
AD conversion	16 bit (65,536 gradients)			
Usable grid frequency	40lp/cm, 34lp/cm			
Durability*10	Point load: 150kg@\$\phi40mm\$, Face load: 300kg@ effective image area overall			
Communication	Dedicated wired Ethernet connection / Wireless LAN (IEEE802.11a compliant)			
W-LAN encryption	Wireless encryption	method: AES / Authentication method: \	WPA2-PSK	
Cycle time* ¹²	AeroDR 1417HQ/S	/S : Approx. 8 seconds when connected with the dedicated wired connection Approx. 12 seconds when connected with wireless LAN connection		
	AeroDR 1717HQ	Q : Approx. 8 seconds when connected with the dedicated wired connection Approx. 14 seconds when connected with wireless LAN connection		
	AeroDR 1012HQ : Approx. 7 seconds when connected with the dedicated wired connection Approx. 9 seconds when connected with wireless LAN connection			
Operating time*13	AeroDR 1417HQ/S AeroDR 1717HQ AeroDR 1012HQ	: 211 images/5.8 hours : 189 images/5.2 hours : 146 images/4.0 hours	*Under conditions that the AeroDR system is connected to a X-ray system and the interval between studies is five minute and three images are captured in each study, assuming 2 seconds for each exposure to position a patient.	
Battery charging time empty to full	AeroDR 1417HQ/AeroDR 1417S/AeroDR 1717HQ Within 30 minutes (When using AeroDR Battery Charger) Within 60 minutes (When using AeroDR Battery Charger2) Within 60 minutes (When using the dedicated wired cable)			
		(When using AeroDR Battery Charger2) (When using the dedicated wired cable)		
Battery duration in standby status*14	AeroDR 1417HQ/S AeroDR 1717HQ AeroDR 1012HQ	: Approx. 16 hours : Approx. 15 hours : Approx. 7.6 hours		
Battery expected life time	Same as the AeroDR panel life time			
Recommended storage and usage environment conditions	When operating : (Temperature) 10 to 30°C (30 to 86°F) (Humidity) 35 to 80% RH (ensure no water condensation) (Atmospheric pressure) 700 to 1060 hPa * Limit continuous use in a hot and humid environment (35 to 37°C/95% or lower) of an incubator to within 25 minutes.			
	When not operating	: (Temperature) -10 to 40°C (14 to 104 °F (Humidity) 20 to 90% RH (ensure no w. (Atmospheric pressure) 700 to 1060 h	ater condensation)	
	In storage/transport	t: (Temperature) -20 to 50°C (-4 to 122°F (Humidity) 20 to 90% RH (ensure no w (Atmospheric pressure) 700 to 1060 hl	ater condensation) Pa	

AeroDR Detector (AeroDR SYSTEM 2)

Model name	AeroDR 2 1417HQ(AeroDR P-51) / AeroDR 2 1417S (AeroDR P-52)			
Detection method	Indirect conversion method			
Scintillator	Csl (Cesium lodide)			
External dimensions (WxDxH)/Weight	AeroDR 2 1417HQ : 383.7×460.2×15.9mm (15.1×18.1×0.6 inch) / 2.6kg (5.7 lb) AeroDR 2 1417S : 383.7×460.2×15.9mm (15.1×18.1×0.6 inch) / 2.5kg (5.5 lb)			
Pixel size	175μm			
Image area size	348.95×425.25mm (13.7×16.7inch) (1,994×2430 pixels)			
AD conversion	16 bit (65,536 gradients)			
Usable grid frequency	40 lp/cm, 34 lp/cm			
Durability*10	Point load: 150kg@\$\phi\$40mm, Face load: 300kg@ effective image area overall			
Water resistance*11	IPX6			
Communication	Dedicated wired Ethernet connection/ Wireless LAN (IEEE802.11a/b/g/n compliant)			
W-LAN encryption	Wireless encryption method: AES / Authentication method: WPA2-PSK			
Cycle time *12	Approx. 4 seconds with dedicated wired connection Approx. 6 seconds with wireless LAN connection			
Operating time*13	AeroDR 2 1417HQ : 300 images/8.2hours AeroDR 2 1417S : 150 images/4.1hours "Under conditions that the AeroDR system is connected to an X-ray system and the interval between studies is five minutes and three images are captured in each study, assuming 20 seconds for each exposure to position a patient.			
Battery charging time empty to full	AeroDR 2 1417HQ Within 30 minutes (When using the AeroDR Battery Charger) Within 30 minutes (When using the AeroDR Battery Charger2) Within 30 minutes (When using the dedicated wired cable) AeroDR 2 1417S Within 13 minutes (When using the AeroDR Battery Charger2) Within 13 minutes (When using the dedicated wired cable)			
Battery duration in standby status*14	AeroDR 2 1417HQ : Approx. 20 hours AeroDR 2 1417S : Approx. 10 hours			
Battery expected life time	Same as the AeroDR panel life time			
Recommended storage and usage environment conditions	When operating : (Temperature) 10 to 30°C (30 to 86°F) (Humidity) 35 to 80% RH (ensure no water condensation) (Atmospheric pressure) 700 to 1060 hPa * Limit continuous use in a hot and humid environment (35 to 37°C/95% or lower) of an incubator to within 25 minutes.			
	When not operating: (Temperature) -10 to 40°C (14 to 104°F) (Humidity) 20 to 90% RH (ensure no water condensation) (Atmospheric pressure) 700 to 1060 hPa			
	In storage/transport: (Temperature) -20 to 50°C (-4 to 122°F) (Humidity) 20 to 90% RH (ensure no water condensation) (Atmospheric pressure) 700 to 1060 hPa *However, the performance warranty period when storing at 50°C is 6 months after packing.			

Regarding the tested values listed above, measurement methods are followed by the standards of KonicaMinolta.

regarding the tested values listed above, measurement methods are followed by the standards or rondicalinition.

*10 Dead loading does not give affection to processed image or panel. Robustness against loading of detector is not to provide any guarantees against damage or breakage. *11 When a shock such as drop or hit on the floor is loaded on the detector, water resistance performance (Value as IPX6) may be lost. And the water resistance performance of the detector is not to provide any guarantees about perfect water resistance or against damage or breakage. *12 Specifications may vary depending on system configuration or environment. The specifications described above are under the conditions that detector is connected to an X-ray generator. *13 The specifications are based on the conditions of 3 exposures within one study and an interval time between studies of 5 minutes. It takes 20 seconds for positioning. Under the condition that the detector is linked with an X-ray generator. When connected to CS-7 image processing workstation. *14 The specifications described above are based on full battery charge and may vary depending on system configuration or environment.

Specifications

AeroDR Battery Charger2

Power

External dimensions (W×D×H)

Weight

AC 100/110/115/120/200/220/230/240 V \pm 10% Single Phase 50/60 Hz

474.2×200×206.7mm (18.7×7.9×8.1 inch)

6kg (13.2lb)

AeroDR Interface Unit 2

Amount of connectable AeroDR
Detectors
Power requirements
Power consumption

External dimensions (W×D×H)

Wired connection : Up to 2
Wireless connection : Up to 4
AeroDR Access Point is necessary when operating wireless.

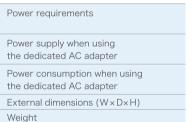
AC 100/110/115/120/200/220/230/240V ± 10%, Single phase 50/60Hz

With the AeroDR Detector connected : Approx.160VA (100-240 V)
Without the AeroDR Detector connected : Approx. 33VA (100-240 V)

460×180×285 mm (18.1×7.1×11.2 inch)

Weight 12.5kg (27.6lb)

AeroDR Generator Interface Unit 2



When the AC adapter is used : Supplied from the dedicated AC adapter.

When the AeroDR Interface Unit is used : Supplied from the AeroDR Interface Unit via the Ethernet cable.

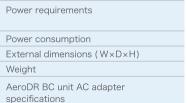
AC 100/110/115/120/200/220/230/240V ± 10%, Single phase 50/60Hz

72VA (100-240V)

210×150×50mm (8.3×5.9×2.0 inch)

0.9kg (2.0 lb)

AeroDR Battery Charging Unit



AC 100/110/115/120/200/220/230/240V \pm 10% Single phase 50/60Hz (When dedicated AC adaptor is used)

Approx. 168 VA (100 to 240V)

90×125×30mm (3.5×4.9×1.2 inch)

0.38kg (0.8lb)

Product name: AC Adapter (Model Number. Cincon Electronics Co.,Ltd. TR60M48)

Dimensions : $132.0 \times 58.0 \times 30.5$ mm (5.2×2.3×1.2 inch)

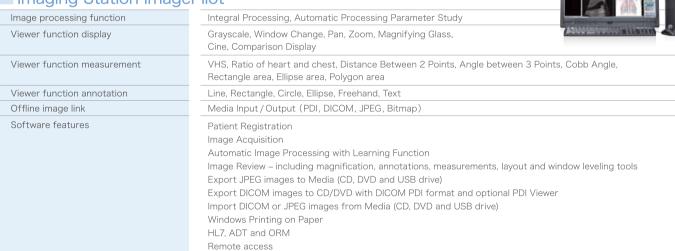
Input : AC 100-240 V 1.5-0.7A 47-63Hz

Output : DC 48 V 1.25 A

Control Station CS-7

Auto-gradation processing, Frequency processing (F processing), Image processing Equalization processing (E processing), Hybrid processing (HF processing - HE processing), Hybrid smoothing processing (HS processing) Grid removal processing, Automatic exposure field recognition processing, Tube and Gauze image enhancement (option), Intelligent Grid (option) Host: max 4 ch / Printer: max 2 ch Image output DICOM Storage SCU, DICOM basic Gravscale Print Management SCU. DICOM support DICOM Modality Worklist Management SCU, DICOM Modality Performed Procedure Step SCU Readable devices AeroDR detector REGIUS MODEL 170, REGIUS MODEL 190, REGIUS MODEL 210, REGIUS MODEL 110 REGIUS MODEL 110HQ*15, REGIUS SIGMA, REGIUS SIGMA 2 *15 It is not EDA cleared in the United States

Imaging Station ImagePilot



DICOM Printing
DICOM Q/R. SCU and SCP

DICOM MWL
DICOM Send to PACS

* Veterinary DICOM support.