High Image Quality

- **Scintillator technology**
  AeroDR offers a “needle crystal” CdI scintillator developed and manufactured by KonicaMinolta. The “needle crystal” CdI scintillator is a proprietary method to apply CdI developed through research and manufacturing experience to deliver high DQE*.

- **Schematic diagram of scintillator and TFT-panel**

- **High image quality at low X-ray dose compared to CR**
  The optimal combination of the AeroDR detector using a KonicaMinolta CdI scintillator combined with the newly developed low noise readout CdI delivers high DQE*.

* Detectors Quantum Efficiency
AeroDR SYSTEM series

Best AeroDR models are selectable to improve current workflow.

Performance model
AeroDR 1417HQ
- Light weight at 7.9kg (17.4lb)
- 21 images / 5.6 hours
- Available for Aerodynx

Value model
AeroDR 1417S
- Light weight at 3.0kg (6.6lb)
- 99 images / 9.2 hours
- Available for Aerodynx

Performance model
AeroDR 1717HQ
- Light weight at 3.0kg (6.6lb)
- 99 images / 9.2 hours
- Available for Aerodynx

Durable monocoque structured cassette
- Use of CFRP (carbon fiber reinforced plastic)
  The CFRP is a light and strong composite material hardened with amine plastic near.
- What is monocoque?
  A monocoque structure refers to a method of construction used to support structural loads by use of an object shell.
  Monocoque case made out of carbon fiber

Durability against loading
- We consider a variety of operation scenes of DR panels.
  ■ Point load test : Cleared endurance test at 150kg (330.7lb) / 40mm (1.6 inch)
  ■ Surface load (uniform load) : Cleared endurance test on the entire surface of the 300kg (661.4lb) on image field.

Performance model
AeroDR 1012HQ
- Super light weight at 7.9kg (17.4lb)
- High image quality at lower X-ray dose compared to CR.
- 145 images / 42 hours
- Available for Aerodynx

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.

- Under condition where the AeroDR system is connected to an SLP system and the internal kVexposure study is fine.
  Multiple and time images are captured in each study, accurately 60 images for each exposures to position the patient.

- 150kg(330.7lb) / 40mm (1.6 inch)
- 300kg (661.4lb)

- Effective image area world
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 lightweight at 2.6kg (5.7lbs)
- Rapid cycle time of 6 sec.
- in wireless operation
- Short operating time of 300 sec. (Kx20s™)
- AeroSync is available

Value model

**AeroDR 2 1417S**
- Value model with added value
- Super lightweight at 2.6kg (5.7lbs)
- High robustness same as AeroDR 2 1417HQ PREMIUM
- Rapid cycle time of 6 sec.
- in wireless operation
- AeroSync is available

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**Lightest level detector in the world**

AeroDR 2 1417S is the lightest level 14x17 inch size wireless cassette-type 2R in the world. KonicaMinolta developed the ideal combination of components, grip mechanism and cover design to deliver a durable panel that weighs only 2.6kg (5.7lbs). AeroDR 2 1417HQ and 1417S are ideal wireless cassette-type detectors that are easy for you to carry and for patients to hold.

**Water resistance IPX6**

Cassette-type DRs may be exposed to body fluids, disinfectants and other liquids accidentally. 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.

**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 holding test assuming being dropped or exposure to the patient or an x-ray machine.

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**Rapid cycle time**

The AeroDR 2 1417 series introduces rapid cycle time, reducing the time needed for image processing to 6 seconds to improve comfort while increasing productivity.

**Rapid cycle time (Console C0-7)**

- Fast cycle time

**High-performance power cell**

- AeroDR 2 1417HQ (PREMIUM)
- AeroDR 2 1417S

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**Safety**

An 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**

2.2 hours and 300 images (AeroDR 2 1417HQ) / 4.1 hours and 300 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 AutoDR detectors and connect to CR readers. This can help you efficiently manage your workflow.

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

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: 3/4/1/8/1.

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 image. 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.).

For convertible models, please contact our salesperson.
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 DR or analogue systems can be converted to DR systems by AeroSync easily without connecting to an X-ray system.

Cassette DR

- X-ray auto detection (AeroSync)
- X-ray detected
- Store charges (Image formation)
- Read out charges
- Transmit image data

Portable system solution

KonicaMinolta has two solutions for digitizing analog x-ray units. One is provided by portable upgrade kit. When certain configuration is suitable for customers, we can propose simple AeroSync portable solution by only panel, control and A/D. Equipment can carry the system to the packing part of this portable X-ray unit easily.

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.

In-room solution

One of KonicaMinolta proposals for an in-room solution is to utilize DR systems which can utilize existing x-ray systems. We can provide high image quality, speed, quick time and eliminate handling DR cassette. Our remote configuration is suitable for small X-ray room.

Mobile solution

KonicaMinolta has suitable AeroDR solution for X-ray studies outside of IR such as room care director mobile. Complete configuration is composed by AeroSync. Users can carry whole AeroDR system packed in a carrying bag to supporting area. After placing equipment, users can upload the AeroDR system unit and prepare the X-ray exams quickly.

*3 Portable X-ray units need to be delivered separately.
**Specifications**

### AeroDR Detector (AeroDR SYSTEM)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>AeroDR P-1</td>
</tr>
<tr>
<td>Detection method</td>
<td>Indirect, convergent mixed</td>
</tr>
<tr>
<td>Escalator</td>
<td>Ultra-Compact</td>
</tr>
<tr>
<td>External dimensions (WxDxH) / Weight</td>
<td>388x244x102 mm / 2.2 kg</td>
</tr>
<tr>
<td>Panel size</td>
<td>300x300 mm</td>
</tr>
<tr>
<td>Image area size</td>
<td>300 x 300 mm</td>
</tr>
<tr>
<td>A0 conversion</td>
<td>16.43167647 (N)</td>
</tr>
<tr>
<td>Usable grid frequency</td>
<td>5-35 kV</td>
</tr>
<tr>
<td>Operating</td>
<td>Point: 150 kV (40 mm)</td>
</tr>
<tr>
<td>Communication</td>
<td>Infrared wireless communication / Wi-Fi</td>
</tr>
<tr>
<td>Cycle time**</td>
<td>Approx. 8 seconds when connected with a dedicated wire connection</td>
</tr>
<tr>
<td>Operating time***</td>
<td>217 images / 28 hours</td>
</tr>
<tr>
<td>Battery charging time from fully charged</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Battery discretion in standby status***</td>
<td>Approx. 15 hours</td>
</tr>
<tr>
<td>Battery expected life time</td>
<td>10 years</td>
</tr>
</tbody>
</table>

### AeroDR Detector (AeroDR SYSTEM 2)

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<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>AeroDR P-11</td>
</tr>
<tr>
<td>Detection method</td>
<td>Indirect, convergent mixed</td>
</tr>
<tr>
<td>Escalator</td>
<td>Ultra-Compact</td>
</tr>
<tr>
<td>External dimensions (WxDxH) / Weight</td>
<td>388x244x102 mm (13.3 x 4 x 4 inches) / 2.2 kg (4.8 lbs)</td>
</tr>
<tr>
<td>Panel size</td>
<td>300x300 mm</td>
</tr>
<tr>
<td>Image area size</td>
<td>300 x 300 mm</td>
</tr>
<tr>
<td>A0 conversion</td>
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<td>Usable grid frequency</td>
<td>5-35 kV</td>
</tr>
<tr>
<td>Operating</td>
<td>Point: 150 kV (40 mm)</td>
</tr>
<tr>
<td>Communication</td>
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** Specifications are subject to change without prior notice.**
Specifications

AerodR Battery Charger2
- Power: AC 100/110/120/220/230V ±10% Single phase 50/60Hz
- External dimensions [WxHxD]: 185x240x34 (mm)
- Weight: 2.5kg (5.5 lb)

AerodR Interface Unit2
- Amount of connectable AerodR collection: Up to 2
- Wireless connection: Up to 6
- AerodR Access Point is necessary when operating wireless
- Power requirements: AC 100/110/120/220/230V ±10% Single phase 50/60Hz
- Power consumption: Without the AerodR Detector connected: Approx.20VA (100-240 V)
- Without the AerodR Detector connected - Approx. 39VA (100-240 V)
- External dimensions [WxHxD]: 450x360x380 (mm) 18x14x15 (in)
- Weight: 22kg (48 lb)

AerodR Generator Interface Unit2
- Power requirements: When the AC adapter is used: Supplied from the dedicated AC adapter
- Power supply when using the dedicated AC adapter: AC 100/110/120/220/230V ±10% Single phase 50/60Hz
- Power consumption when using the dedicated AC adapter: 16W (100-240V)
- External dimensions [WxHxD]: 320x140x90 (mm) 12.6x5.5x3.5 (in)
- Weight: 22kg (48 lb)

AerodR Battery Charging Unit
- Power requirements: AC 100/110/120/220/230V ±10% Single phase 50/60Hz
- Power consumption: Approx. 48VA (100 to 240V)
- External dimensions [WxHxD]: 182x240x34 (mm)
- Weight: 2.3kg (5.1 lb)

AerodR BC unit AC adapter specifications
- Product name: AC Adapter (Model Number: Crown Electronics Co., Ltd., T&G05M48)
- Dimensions: 120x48x35 (mm) 4.7x1.9x1.4 (in)
- Input: AC 100 240V 50/60Hz 4.8A
- Output: DC 48V 1.25A

Control Station CS-7
- Image processing: Auto-correlation processing, Frequency processing (F processing)
- Equalization processing (E processing)
- Hybrid processing (HP processing - HP processing)
- Hybrid smoothing processing (HS processing)
- Grid removal in screening, Automatic exposure field recognition processing,
Tone and Gain image enhancement (option), Intelligent Grid (option)
- Image output: Host “data out” (Mini-DIN) 10 pin
- DEM-demographic View software (DEU), DEM-demographic View software (DEU), DEM-deals (Advanced Point analysis) Edition (DEU)
- Readable devices: AerodR detector
- REGUS Model: REGUS-100N, REGUS-100N, REGUS-100N
- REGUS Model: REGUS-100N, REGUS-100N, REGUS-100N
- REGUS Model: REGUS-100N, REGUS-100N, REGUS-100N

120V 240V 50Hz 60Hz

Imaging Station ImagePilot
- Image processing function: Integral Processing, Automatic Processing Parameter Study
- Viewer function display: Brightness, Window, Change, Pan, Zoom, Magnifying Glass
- Disp. Expansion Display
- Viewer function measurement: Unit: Mm (Millimeter) and inch. Distance between 2 Points, Angle between 3 Points, Curve Angle, Rectangle area, Ellipse area, Trapezoid area
- Software features: Patient Demographics
- Image Acquisition
- Automated Image Processing with Learning Function
- Image Review- including magnification, annotations, measurements, layout and window leveling tools
- Export JPEG images to Mobi (iOS, iPad, and USB drive)
- Export JPEG images to CD/DVD with DEM-DEM format and optional PDF Viewer
- Import JPEG images (JPEG images from CD/DVD and USB drive)
- Windows Printing on Paper
- K, T, A1, and A2
- Remote access
- DEM-DEM remote patient
- DEM-DEM device
- DEM-DEM device
- DEM-DEM device
- DEM-DEM device

* Specifications are subject to change without prior notice.