AeroDR 3

1417HD2 / 1717HD2 / 1012HQ

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KONICA MINOLTA

WIRELESS DIGITAL RADIOGRAPHY SYSTEM

# AeroDR 3

## 1417HD2 / 1717HD2 / 1012HQ


Giving Shape to Ideas


Konica Minolta's next generation wireless FPD
AeroDR 3 1417HD2 / 1717HD2 / 1012HQ exceeds
the advantages of our current AeroDR® series and incorporates
new features. It is the top-of-the-line model in the AeroDR series.

High Image Quality
High-Definition, High DQE and Lower Radiation Doses

■

Lightweight, Rugged and Safety
Antibacterial Carbon SMC Enclosure

■

Powerful and Reliable Workflow
Rapid Cycle Time, Selectable Pixel Size,
and Updated AeroSync® Automatic Exposure Detection.

# AeroDR 3 HD2

**AeroDR 3 1417HD2**

Light weight at 2.6kg (5.7 lb)

■

Rapid cycle time of 4 s
in wireless operation*1

■

Antibacterial design

**AeroDR 3 1717HD2**

Light weight at 3.2kg (7.0 lb)

■

Rapid cycle time of 4 s
in wireless operation*1

■

Antibacterial design

**AeroDR 3 1012HQ**

Light weight at 1.5kg (3.3 lb)

■

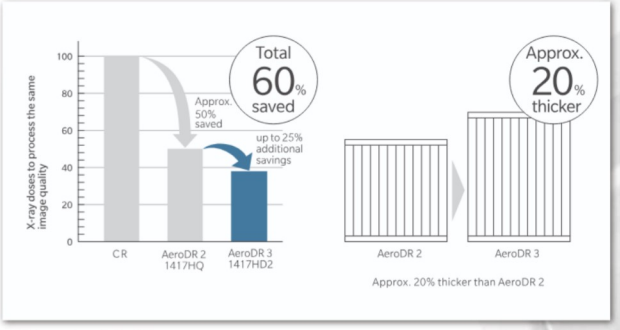
Rapid cycle time of 4 s
in wireless operation*1

*1 Specifications may vary depending on system configuration or environment. The specifications described above assume that each AeroDR 3 panel (pixel size is selected 200μm) is connected to an X-ray generator.

# High Image Quality

## High DQE and Lower Doses

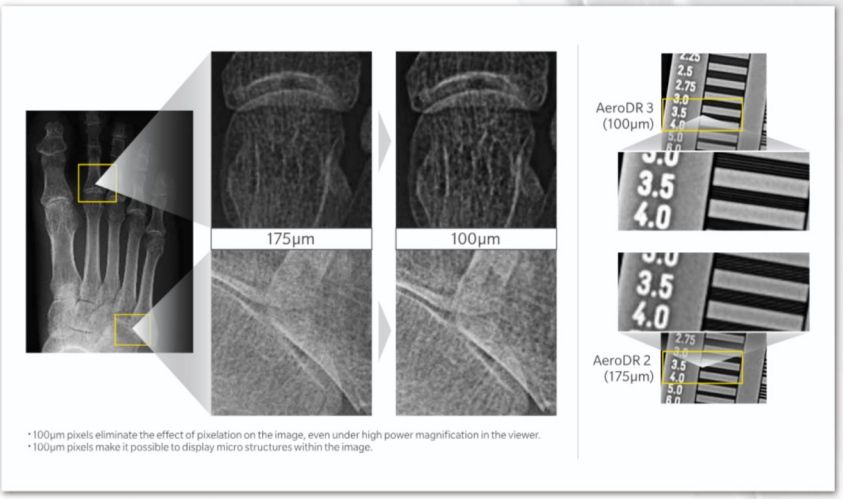
Konica Minolta introduces the latest technological advances with the AeroDR 3 High sensitivity TFT panel. The thicker CsI scintillator and new ROIC can reduce the electrical noise level. Now we can provide patients and AeroDR users with high Detective Quantum Efficiency (DQE) and lesser doses with AeroDR 3 when compared with previous system.





## Thicker CsI Scintillator

The scintillator material is evenly distributed from the bottom to the top of the panel, it's more than 20% thicker than the AeroDR 2 1417HQ panel. This helps provide the high DQE.




• 100μm pixels eliminate the effect of pixelation on the image, even under high power magnification in the viewer.
• 100μm pixels make it possible to display micro structures within the image.

## Performance of 100μm pixels

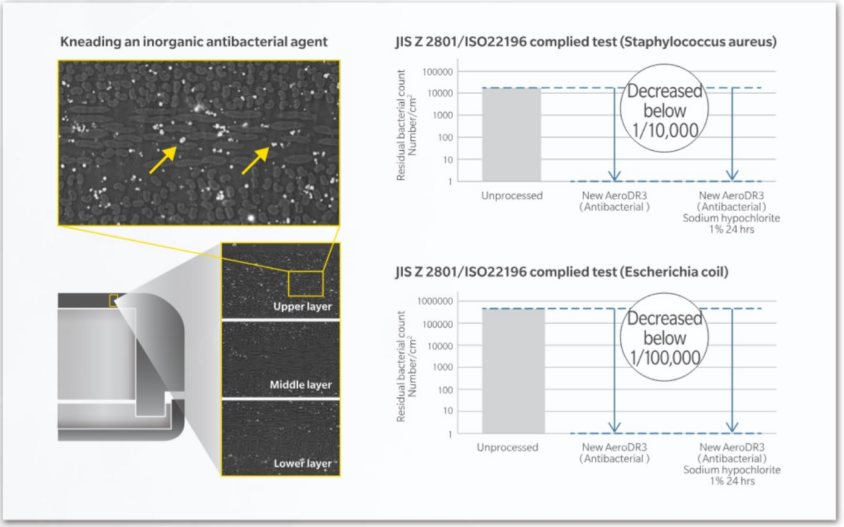
The pixels are 100μm across, and this small size helps ensure clear images.



# Antibacterial Performance that Lasts.

## Antibacterial carbon enclosure that does not impact performance.*2

AeroDR3 1417HD2/1717HD2 provides a permanent antibacterial performance that does not deteriorate over time by incorporating antimicrobial agents containing Ag in its enclosure materials. Since antibacterial performance is not lost due to scratches in daily use, it can be used with confidence due to the antibacterial properties required for preventing nosocomial infections.



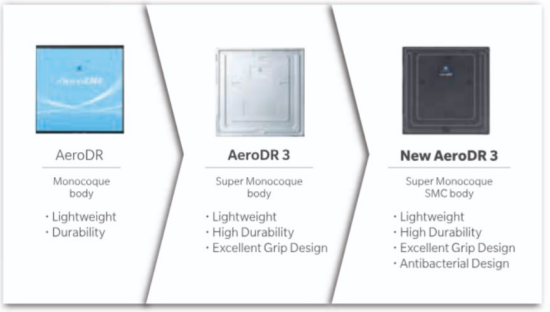

*2 The antibacterial effect is not effective to all of bacteria. Although antibacterial treatment can suppress propagation of bacteria, it does not eliminate bacteria completely or help complete prevention of infection. Bacteria may propagate when the surface has fatand-oil or dirt adhered on it.

## An enclosure that is lightweight, rugged and safe.

Carbon SMC (Carbon Sheet Molding Compound) is used for the enclosure material for the first time as a medical device*3. It is a material that is lightweight yet has excellent rigidity, and antibacterial agents can be kneaded into the material, achieving both high durability and safety required in the medical field.

*3 As of Mar,2021, An internal investigation

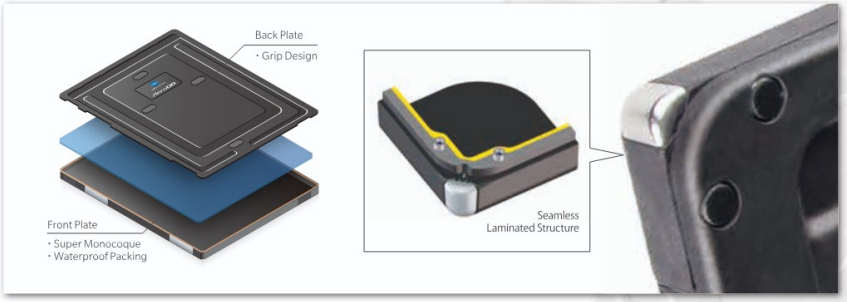

AeroDR has evolved to meet the needs of healthcare workers.



# Lightweight and Rugged Structure

## Super Monocoque Housing Structure

Konica Minolta has developed a new detector design to provide easy handling and high durability.





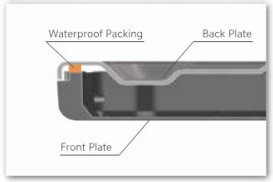
## Excellent Grip Design

The depression is on the backside panel surface, helping to prevent user fingers from being caught. This excellent design makes it easier and safer to handle in your daily routine.

## Sustains IPX6 waterproof compliance even after the panel was dropped from height of 1.0m.※

The AeroDR 3 panel has cleared the durability test for water resistance after dropping it from a height of 1m. The structure of the AeroDR 3 panel does not allow liquids to penetrate or damage the main components.

※ The internal test condition is that the AeroDR 3 1417HD2 main body is dropped once onto a concrete floor that has a 2mm-thick sheet laid on it, after which the water resistance test is conducted. Depending upon the operating conditions and detector status, the IPX6 water resistance may be lost.

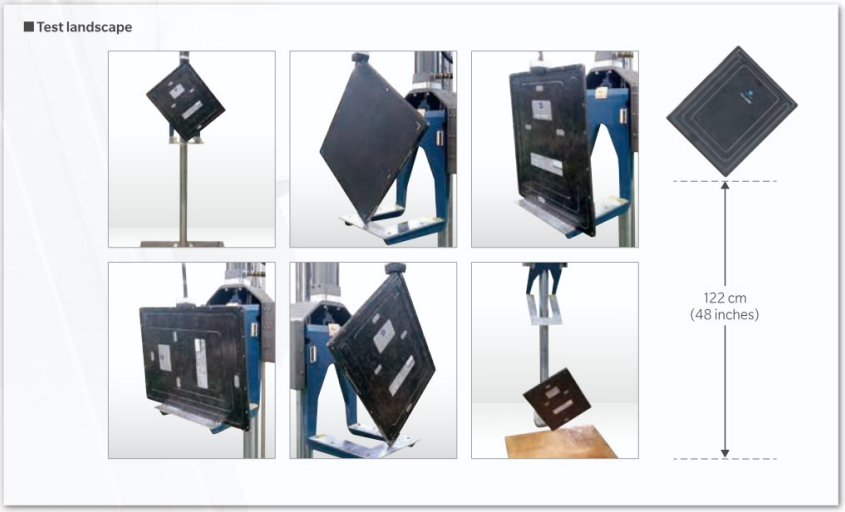




Enhanced waterproof performance.

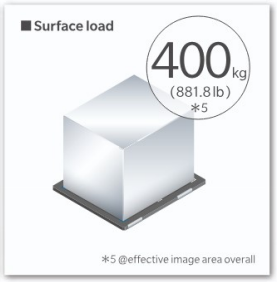


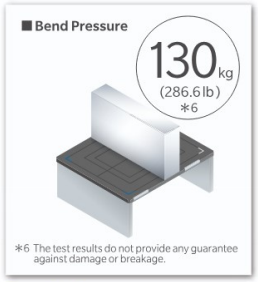
## AeroDR 3 panel has passed the US Department of Defense MIL-STD-810G drop strength test

The test consists of drops from a total of 26 places once each from the height of 122 cm (48 inches). The 26 places are 6 planes above plywood, 12 ridgelines, and 8 vertices.








## Load Resistance※

The AeroDR 3 panel has undergone a variety of internal tests based on some assumed extreme operating scenarios.

※ The test results do not provide any guarantee against damage or breakage.

## Bend Resistance

Konica Minolta assumed an operating scenario in which a 130 kg patient lies on the AeroDR 3 panel main body for a bedside exposure, and designed the detector such that it would not affect the processed image or suffer internal damage.