

“Dynamic Digital Radiography” (DDR) to Expand Mobile X-Ray Imaging Possibilities

Breakthrough Mobile X-Ray System that can provide more
information than conventional static images



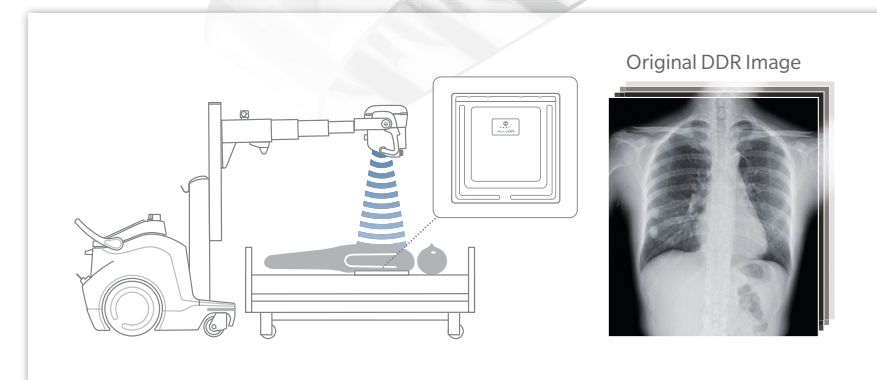
New Value of DDR

Enabling DDR in mobile X-Ray exam environments

Frame Rate : 15fps

Exposure Time : 20 seconds at longest

AeroDR TX m01



Wireless DDR on Mobile X-Ray System

By transmitting a sequence of pulsed X-Rays and displaying a series of static images, Mobile DDR visualizes the motion of structures such as lungs and diaphragms, providing more information than conventional static images for bedside radiography in the ICU and other areas, without the need to move the patient.

* AeroDR3 1417HD2 or AeroDR3 1717HD2 is necessary for DDR.

Comfortable Operability to Support Exposure Workflow

Support for fine positioning movements

The motion control switch on the top of the handgrip allows the user to move each wheel independently, supporting fine positioning movements.



Four-step Telescopic Arm

Touching the handgrip releases the electromagnetic brake, allowing the user to move the column and arm. The arm can be extended up to 1,220 mm and the column can be rotated up to 317° to cover a wide exposure area.



Touch-sensitive handle for movements

Simply touching the handle unlocks the device for easy movements. When not in the parking position or when backing up, the device automatically limits the speed for safer and more secure use. The height of the handle can also be changed.



Second Screen on Head-Assembly

A touch-panel second screen located in the Head-Assembly enables the user to check and change exposure conditions to achieve efficient workflow. The distance between the X-ray tube and subject can also be automatically measured and displayed.



Alignment Support Function to assist positioning

The roll angle and the pitch angle of the X-Ray tube and detector are displayed to support alignment adjustments. During DDR exposure, when the pitch angles of the X-Ray tube and detector match, they are displayed in color, allowing the user to intuitively check the alignment status.

* AeroDR3 1417HD2 or AeroDR3 1717HD2 is necessary for alignment support function of detector.

Anti-Collision Sensor

An anti-collision sensor can be installed to support safer operation. (Optional)

Compact design with a width of 540 mm

With its compact size, this unit can be easily moved to any location, including ICUs, wards, and operating rooms.

Adopts a Large 19-inch Screen

A large 19-inch touch-panel monitor makes it easy to see exposed images and to use the touch screen. It also features at-a-glance battery level display and entry system using a numeric keypad or RFID card.

Cabinet equipped with detector charging function

Cabinets are placed at the front and back of the main unit to hold a total of three detectors, enabling automatic power supply to the detectors by simply loading them. In the parking position, the arm serves as a locking mechanism to prevent theft (1417/1717 size).



Various Console Functions

Intelligent Grid

Image processing that improves contrast which is affected by scattered radiation without a grid. This function provides easy workflow, and the operator need not carry it to perform an exam. Three types of parameters are available from comparable grid ratios; 3:1/6:1/8:1/10:1/12:1. (Optional, Not available for DDR)

Target body part for Intelligent Grid

Without Grid

With Intelligent Grid

With Grid

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

Tube and gauze image enhancement

CS-7 can highlight tube and gauze images that are difficult to detect with normal images. (Optional, Not available for DDR)

Safer and More Reliable Detector Design

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.

Antibacterial carbon enclosure that does not impact performance.*

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.

* 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.