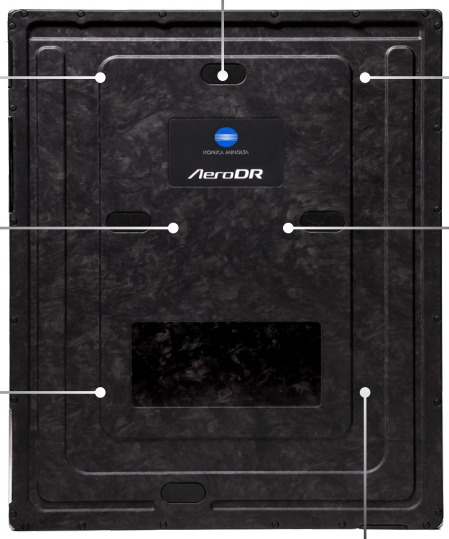
The family of **high-performance** wireless digital detectors.

SPACE AGE
CARBON SMC
CASING

VARIETY
OF SIZES FOR EVERY NEED:
17X17, 14X17, 10X12

HIGH PERFORMANCE
TECHNOLOGY OPTIONS



STRONG
& LIGHTWEIGHT
STARTING AT 3.96 LBS

HIGH SENSITIVITY
72+% DQE
(0mR, 1cyc/mm)

7 YEAR
POWER CELL WARRANTY

HIGH DEFINITION
AVAILABLE IN 100/200 µm
RESOLUTION

Built Tough

BEND RESISTANCE
Up to 286 lbs.

WATERPROOF/
DUSTPROOF
IP56 Compliant

STRONGER
Holds up to 881 lbs.

EASIER TO HOLD
60% Less Grip
Strength Needed

HIGH IMAGE QUALITY
Combined with KM superb
image Processing

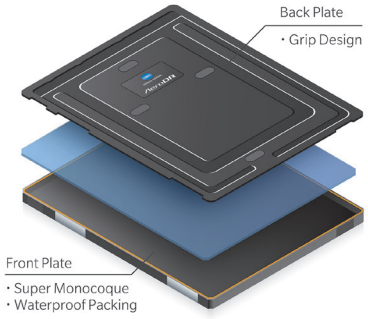
KONICA MINOLTA

The AeroDR advantage.

Konica Minolta designs and manufactures the AeroDR line of flat panel detectors and image processing software for digital radiography that delivers solutions that provide clinical and economic value to meet your needs.

The AeroDR Glassless Flat Panel Detectors are our lightest, strongest and most sensible solution to help you improve efficiency and reduce user fatigue without compromise.

The glass substrate was replaced by a thin film transistor (TFT)



AeroDR Glassless Flat Panel Detectors use a thin film instead of a glass substrate to achieve lighter weight. Removing the glass reduces the distance between the scintillator and the TFT to increase sensitivity. The electronics are optimized to reduce electrical noise. Additionally, the AeroDR Glassless Product Line is offered in a High-Definition (HD) option, which offers enhanced detail at 100µ. The High Dynamic Range option that provides a 200µ resolution for a wider range of tone variations to visualize tissue.

The unique Carbon SMC monocoque structure with ergonomic design and built-in Lithium-Ion capacitor provides the lightweight and resiliency needed for high-volume applications. The monocoque structure can hold up to 881 lbs. of distributed weight, meets MIL-STD 810G drop resistance and is sealed to meet IP56 certification for dust and liquid intrusion resistance. The built-in Lithium-Ion capacitor eliminates the need to replace batteries and ensures structural integrity. Each capacitor provides a long usage time, charge takes less than 30-minutes and has a 7-year warranty.

Standard Processing

REALISM Image Processing

AeroDR Flat Panel Detectors are designed for REALISM, an advanced image processing algorithm that delivers a new level of clarity and detail for superior visualization within the soft tissue and bony structures. REALISM independently processes bone and soft tissue data to enhance image sharpness and contrast to reveal subtle aspects of the image. REALISM improves workflow efficiency by simultaneously enabling the visualization of soft tissue and bone with a reduced number of window-level adjustments.

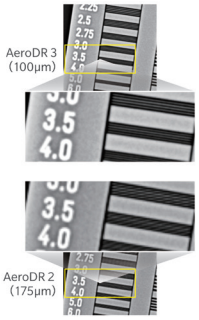
Choose the solution that is right for you.

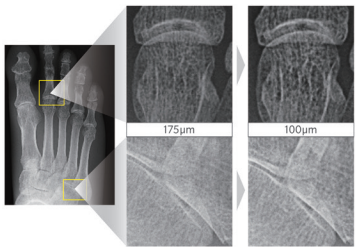
AeroDR | GL HD-2

Glassless Enhanced Resolution 100µm/200µm Imaging (Selectable)

- High-definition and dynamic range imaging
- Selectable 100/200µm resolution
- High sensitivity to deliver Up to 72% DQE (1mR, 0 cycle/mm) for enhanced detail at 100µm and 200µm for a wider range of tone variation to visualize soft tissue
- Long power cell life up to 8.6 hours on full charge (2 LiC)
- Storage for up to 100 images
- 14" x 17" panel weighs 4.2 lbs/1.9 kg super lightweight including two capacitors
- Lighter than the CR cassette (14"x17" size: 2.0 kg)
- 17" x 17" panel weight 5.1 lbs/2.3 kg including the two capacitors
- IP56 dust and liquid resistance (with integrated power supply)
- 4.0 sec AED with AeroSync®
- Easier to hold with 4 mm deep groove around the entire circumference

High-resolution imaging allows greater detail for small structures





AeroDR | GL HD-1

Glassless Enhanced Resolution 100µm/200µm Imaging (Selectable)

- High-definition and dynamic range imaging
- Selectable 100/200µm resolution
- High sensitivity to deliver Up to 72% DQE (1mR, 0 cycle/mm) for enhanced detail at 100µm and 200µm for a wider range of tone variation to visualize soft tissue
- Long power cell life up to 4.3 hours on full charge (1 LiC)
- 14" x 17" panel weighs 3.96 lbs/1.8 kg super lightweight including the capacitor
- Lighter than the CR cassette
- IP56 dust and liquid resistance (with integrated power supply)
- 4.0 sec AED with AeroSync®
- Easier to hold with 4 mm deep groove around the entire circumference

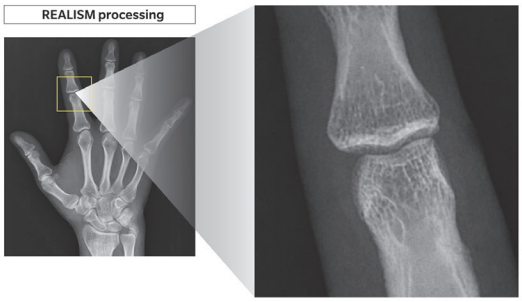
AeroDR® Flat Panel Detectors

AeroDR | GL-P

Glassless Standard Resolution Imaging

- High-dynamic range imaging at 200µm resolution
- High sensitivity to deliver Up to 72% DQE (1mR, 0 cycle/mm) for enhanced detail at 200µm for a wider range of tone variation to visualize soft tissue
- 14" x 17" panel weighs 3.96 lbs/1.8 kg super lightweight including the capacitor
- Long power cell life up to 4.3 hours on full charge (1 LiC)
- IP56 dust and liquid resistance (with integrated power supply)
- 4.0 sec AED with AeroSync®
- Easier to hold with 4 mm deep groove around the entire circumference

High dynamic range takes advantage of **REALISM** image processing to enhance tone variation to visualize soft tissue with minimal impact to resolution at normal viewing ratios



AeroDR | CARBON

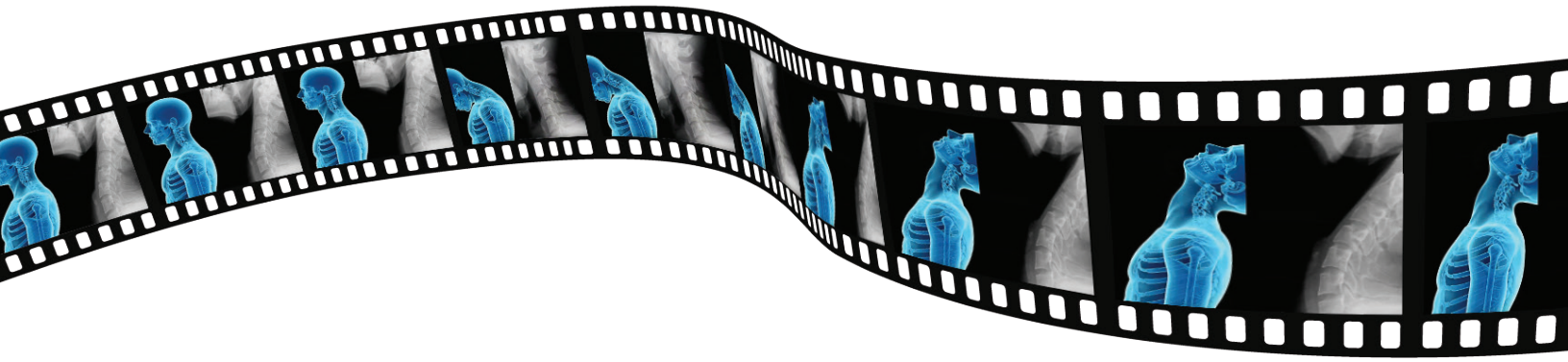
High Resolution 100µm Imaging with Dynamic Digital Radiography (DDR)

- Traditional design detector (glass substrate)
- DDR capable
- High-definition imaging
- Selectable Image Processing - 100µm/200µm
- High sensitivity to deliver Up to 72% DQE (1mR, 0 cycle/mm) for enhanced detail at 100µm and 200µm for a wider range of tone variation to visualize soft tissue
- Available in 14"x17" and 17"x17" sizes
- Up to 8.6 hours on full charge (2 LiC)
- Carbon SMC Monocoque structure design
- IPX6 liquid resistance (with integrated power supply)
- 4.0 sec AED with AeroSync®

DDR
DYNAMIC DIGITAL RADIOGRAPHY

KONICA MINOLTA

Dynamic Digital Radiography (DDR).



Why Consider Dynamic Digital Radiography?

Dynamic Digital radiography (DDR) is an exciting new X-ray technology that enables low-dose dynamic acquisition and visualization with a conventional X-ray device. This reimbursed technology allows for standard radiography and full 17" x 17" imaging at 15 fps.

DDR is the only imaging study that provides a view of anatomy in motion, with a large field of view and low radiation dose.

Most advanced medical imaging technologies like CT and MRI provide superb spatial resolution but not movement. Ultrasound has a limited range, and fluoroscopy cannot be re-processed to highlight soft tissue. Images can be acquired with the patient in a natural upright position, which is impossible with CT or MR. The underlying DDR technology, and its application to several pulmonary and cardiothoracic indications, is well established. With DDR, you can visualize cardiac, diaphragm, and lung motion facilitating the ability to extract analytic information about lung volumes, lung parenchyma motion, pulmonary circulation, and ventilation in a conventional X-ray. Recently, it has been used for musculoskeletal imaging for many orthopedic, neuro-spine and sports medicine pathologies.

*DDR is only available in select systems

DDR is X-ray that moves!

Product selection guide

Category	AeroDR® GL-P	AeroDR® GL HD-1	AeroDR® GL HD-2	AeroDR® CARBON
Image area	348.8×425.6mm / 3,488×4,256 Pixels	348.8×425.6mm / 3,488×4,256 Pixels	348.8×425.6mm / 3,488×4,256 Pixels	348.8×425.6mm / 3,488×4,256 Pixels
Weight	3.96 lbs /1.8 kg	3.96 lbs /1.8 kg	4.2 lbs./ 1.9 kg (14"x17") 5.0 lbs./ 2.3 kg (17"x17")	5.7 lbs / 2.6 kg (14"x17") 7.0 lbs./ 3.2 kg (17"x17")
Matrix size	1,744 × 2,128 (200µ)	3,488 × 4,256 (100µ) 1,744 × 2,128 (200µ)	3,488 × 4,256 (100µ) 1,744 × 2,128 (200µ)	3,488 × 4,256 (100µ) 1,744 × 2,128 (200µ)
Pixel size, µm	200µ	100µ/200µ	100µ/200µ	100µ/200µ
Image preview in seconds	~2 @ 200µ	~3 @ 100µ ~2 @ 200µ	~3 @ 100µ ~2 @ 200µ	~3 @ 100µ ~2 @ 200µ
Diagnostic view in seconds	4-7 sec – Pixel size and Generator connection dependent	4-7 sec – Pixel size and Generator connection dependent	4-7 sec – Pixel size and Generator connection dependent	4-7 sec – Pixel size and Generator connection dependent
Patient Weight / Distributed Entire detector surface	881.8 lbs	881.8 lbs	881.8 lbs	881.8 lbs
Drop Sensors	Yes – Accelerometers	Yes - Accelerometers	Yes - Accelerometers	Yes - Accelerometers
Certifications	IP56 and MIL-STD 810G	IP56 and MIL-STD 810G	IP56 and MIL-STD 810G	IPX6 and MIL-STD 810G
Power	Lithium-ion capacitor	Lithium-ion capacitor x1	Lithium-ion capacitor x2	Lithium-ion capacitor x2
Expected power between charges –S-SRM	200µ Up to 150 exposures @ 4.3 hrs	100µ Up to 116 exposures @ 2.5 hrs. * 200µ Up to 150 exposures @ 4.3 hrs	100µ Up to 251 exposures @ 6.9 hrs.* 200µ Up to 309 exposures @ 8.6 hrs	100µ Up to 251 exposures @ 6.9 hrs.* 200µ Up to 309 exposures @ 8.6 hrs
Expected power between charging AeroSync - AED	200µ Up to 137 exposures @ 3.3 hrs	100µ Up to 106 exposures @ 2.2 hrs.* 200µ Up to 137 exposures @ 3.3 hrs	100µ Up to 167 exposures @ 4.6 hrs. 200µ Up to 198 exposures @ 5.4 hrs	100µ Up to 167 exposures @ 4.6 hrs. 200µ Up to 198 exposures @ 5.4 hrs
Charge time	Up to 13 min	Up to 13 min	Up to 30 min	Up to 30 min
DQE @ 0 cycle/mm	72%	72%	72%	72%
DDR Capable	No	No	No	Yes
Max AED exposure	4.0 seconds	4.0 seconds	4.0 seconds	4.0 seconds

*Assuming that the AeroDR is connected to an X-ray, the interval between studies is 5 minutes, and three images are captured in each study and ‘20s for patient positioning.

Also available: AeroDR HD 10"x12"

KONICA MINOLTA

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M2001 0523 RevC