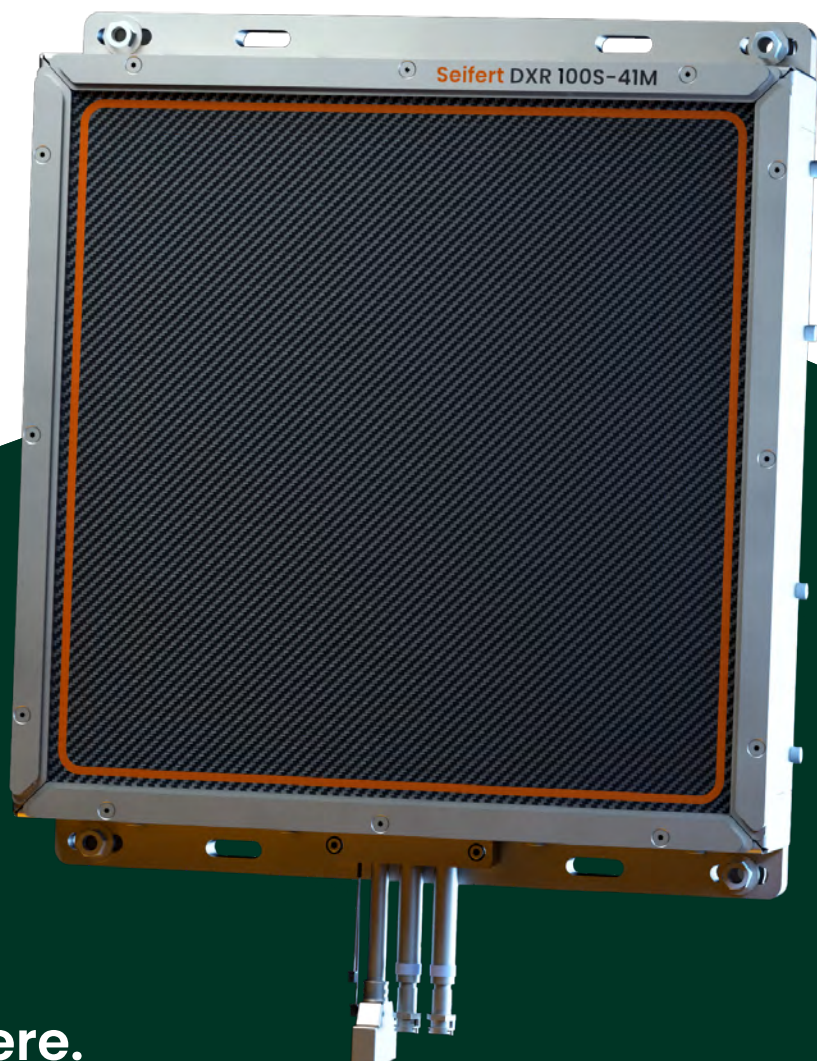


DXR 100S-41M and DXR 200S-41M

Digital X-ray detector inspection solution
for cabinet integration

- Higher, consistent image quality
- Higher resolution
- Larger active area
- Faster imaging
- Longer lifespan



Productivity starts here.

Powering the next generation of X-ray inspection

Global technology and market developments require ever more efficient, faster production of increasingly complex products. As world leader in industrial inspection solutions, Waygate Technologies helps manufacturers rise to the challenge of meeting highest safety standards while streamlining production processes.

With the new DXR 100S/200S-41M solutions, Waygate Technologies is offering its industry-proven, Dynamic 41 detector technology as a standalone package for retrofits of existing X-ray facilities – from film to Digital Detector Array and image-intensifier based systems.

DXR 100S/200S-41M

Combining increased detector sensitivity, a larger imaging area, faster frame rates, and adaptive imaging modes.



Higher, consistent image quality

The Dynamic 41 detector technology excels in signal-to-noise, sharpness and radiographic contrast over a wide dynamic range. Its temperature control allows stable operation ensuring consistent output and inspection repeatability.



Higher resolution

The detector technology of the DXR 100S-41M solution doubles resolution without cycle time impact compared to state-of-the-art 200 µm pixel size detectors.



Faster imaging

Thanks to balanced dose sensitivity and enhanced electronics both DXR 100S-41M and DXR 200S-41M achieve the required radiographic image quality in seconds.



Larger active area

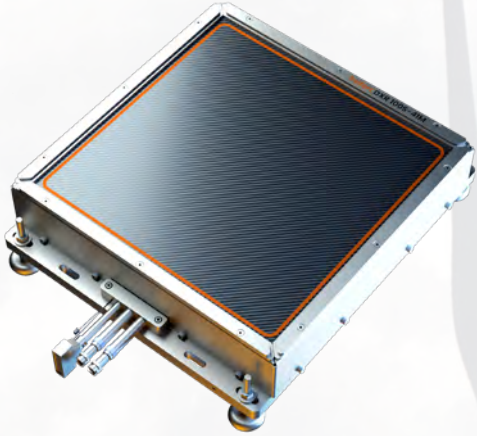
With an active area of 405 x 405mm or 16" x 16", these detectors allow the inspection of larger components compared to other DDA based solutions.



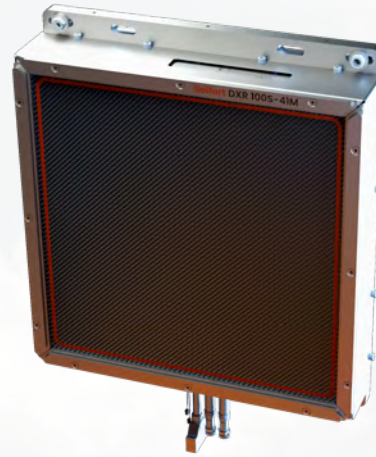
Longer lifespan in industrial usage

The detectors are designed and optimized for long-term reliability in up to 450kV applications. They come with a tungsten coating for optimum radiation protection, significantly increasing the detector lifetime, without compromising on dose sensitivity.

Key features and advantages



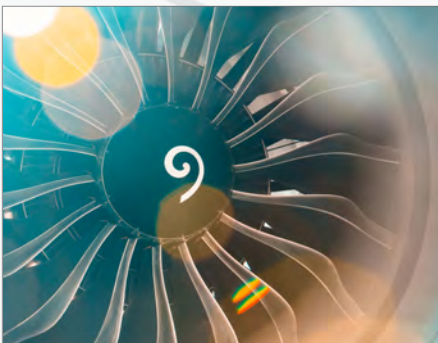
Floor mounted detector



Wall mounted detector

- Larger area detector (405mm/16")
- 2-3x cycle time increase
- Up to 10x improved efficiency and sensitivity
- Designed for inspection process consistency
- Optimized for long-term system reliability
- Rhythm Insight software platform for fast and easy data acquisition and -analysis
- Renowned Flash! for one-click image enhancement
- Protective casing for use in harsh industrial environments
- Fibre optic data transmission for optimal time-to-image

Industries



Aerospace/Aviation

- Castings
- Blades
- Welds
- Wings
- Electrical boards



Automotive

- Castings
- Drivetrain and suspension components
- Electrical boards



Power Generation

- Welds
- Turbine blades

Others

- Defense
- Medical

DXR 100S-41M / DXR 200S-41M

Package Contents

- DXR 100S-41M or DXR 200S-41M
- PC with Rhythm Review & Rhythm Insight RT software
- Fibre optics DAB3 card
- Cooling pump + power supply
- Cables and accessories
- Front and back protection cover (allowing parts on detector and ground installation or wall mounting)
- Service: System installation, training and equipment validation

Optional

- Monitor(s)
- Additional Rhythm Review modules
- Service/Application: Additional user training

General Specifications

	DXR 100S-41M	DXR 200S-41M
Pixel Size	100 µm	200 µm
Active Area (approx.)	405 x 405 mm (16" x 16")	
Pixel Matrix	4096 x 4096 (16 MP), usable: 4048 x 4048	2048 x 2048 (4 MP), usable: 2024 x 2024
Max. Frame Rate	Full FOV: 3 fps; 20 x 20cm ROI: 5 fps	Full FOV: 20 fps; 20 x 20 cm ROI: 30 fps
Dynamic Range	10 000:1	
Scintillator Type	CsI	
Lifetime Extension	Design optimized for industrial inspection applications	
ASTM E2597/DICONDE	Compliant	

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