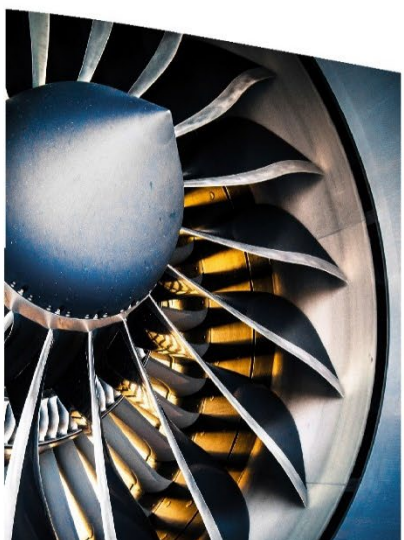
Waygate Technologies
a Baker Hughes business

High quality and durable, precision imaging

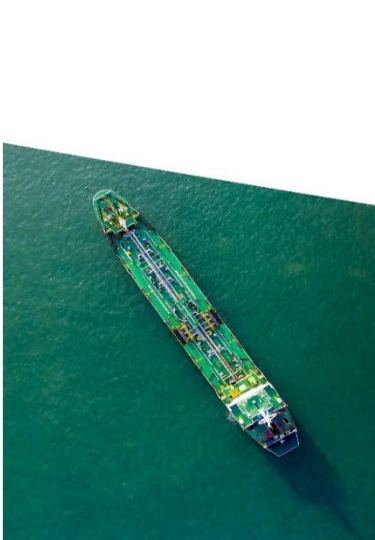
DXR 100P-X Detector











DR detector DXR100P-X, A leading technology

The new DXR100P-X detector provides the high quality, efficient imaging solution required for industrial field testing. The DR detector meets the strictest inspection standards, provides 100 µm SRb and excellent SNR, specifically for the demands of different industrial applications. Rugged inside and outside, it offers the high quality and fine details an inspection task requires, from corrosion monitoring to weld inspection and everything in between

High quality, cost-effective

Dedicated to industrial use, the customer-driven design of the detector offers rugged reliability and high quality that perfectly fits the criteria for mobile inspection of installations. The detector comes in a rugged casing that guards against drops, knocks and even radiation, for a longer lifetime and consistent performance. The external enhanced antenna makes the field wireless use more stable and convenient, the IP65 rating ensures it is suitable for all industrial environments.

Building on the most advanced software platform and optimizing the cost structure, Waygate Technologies provides this most cost-effective detector on the market, helping you create more value.



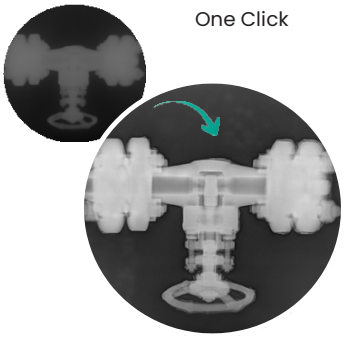
Designed specifically for you, combining high-quality, efficient imaging with cost-effectiveness.

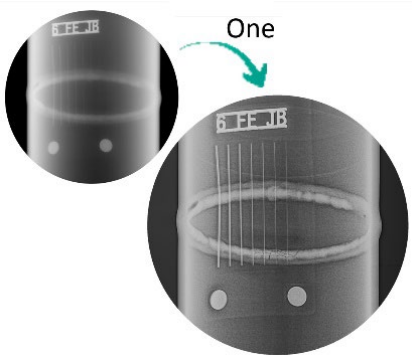
Rhythm Insight advanced digital tools

Built on 15 years of experience and proven knowledge, Rhythm Insight RT offers a powerful, scalable, yet easy-to-use NDT acquisition and analysis platform, dedicated to industrial requirements, and powered by Flash!

- Intuitive user interface, right out of the box
- Touch user interface for optimal operation under all conditions
- Application-guided automation
- Powerful image quality validation tools
- DICONDE compliant
- Compliant with prevailing standards, including ISO 17636-2, GB/T35388, NB/T 47013.11 etc.
- Powered by Flash! automatic image processing technology
- Always updated, never out of date







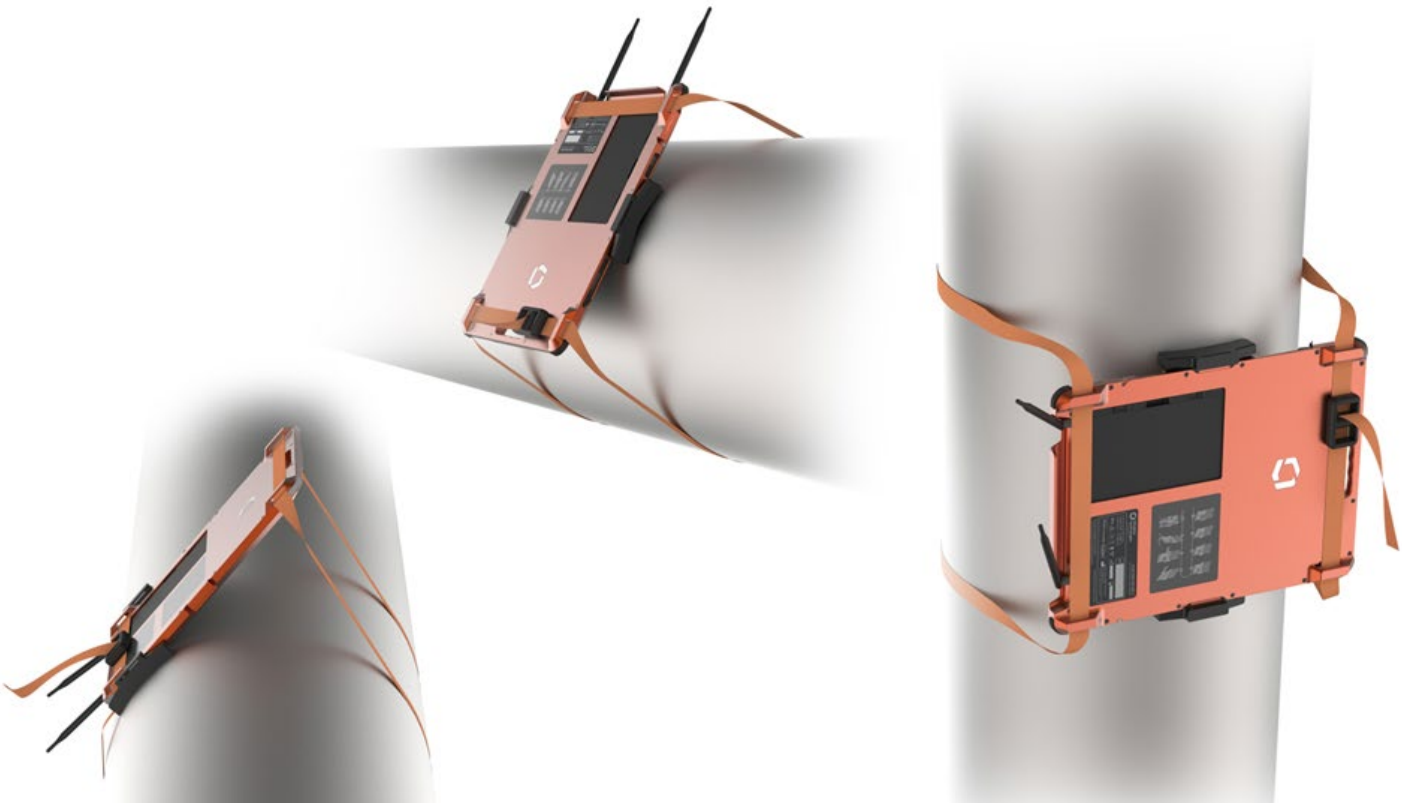
Large imaging area, high performance, and robust housing

Suitable for a wide range of industrial radiation applications

The DXR100P-X gives you 100-micron pixel resolution, this versatile detector can cover both worlds: O&G inspections but also weld inspection.
The combination with the software Rhythm Insight RT, it presents unparalleled image quality, so that the hardware and software together show excellent functions and performance.
The external enhanced antenna module enables the flat panel detector to send wifi signals over 120 meters without any other router.
The device provides a wealth of accessories to help make field operations more convenient.

The DXR100P-X can be used with x-ray as well as isotopes, suited for a wide variety of applications, including but not limited to:

- Weld inspection in oil & gas, energy and aviation:
  - transport pipelines
  - complex structures (spool)
  - boiler & pressure tubes
  - fuel pipes
  - pressure vessels and storage tanks
- Shipyard weld inspection
- Casting inspection
- Aviation MR
- Oil & gas and energy, in-service inspection:
  - CUI & WT measurement
  - valve positioning
  - pipe support
- Structure inspection:
  - concrete, bridges, supports, ...
- Science, art and archeology
- Power line inspection, GIS



Technical specifications

DXR 100P-X			
Scintillator	GOS	**Pixel pitch**	100 µm
Basic spatial resolution	5 lp/mm	**Grayscale**	16 bit
Detector active area	350 x 430mm	**Detector size (including armor case)**	547 x 412 x 39mm
Detector weight (including armor case)	8.2kg	**Ingress Protection**	IP65
Operating temperature	-10~50°C (battery operated) -20~50°C(adapter operated)	**Operating humidity**	5% ~ 90% RH(non-condensing)
Communication	Wired or wireless (802.11 ac)	**Antenna**	External enhanced antenna 5 GHz / 2.4 GHz
Power supply	INPUT 100-240Vac.50/60Hz 1.5A Max OUTPUT 24.0V 3.0A		
Operating time	powered by battery pack (2 x 4180 mAh), 6 hours Continuous use under cycle charging		
Compliance	• ISO, ASTM, ASME, GB, NB • DICONDE compliant (ASTM E3147) • Spatial Resolution Measurement conforms to ASTM E2597, GB/T 35394 • Bad pixel calibration conforms to ASTM E2597, GB/T 35394		

Useful accessories

Pipe support
Curved support on the armor case that allows smooth positioning of the detector on pipes and ensures that the DDA is always in the center.

External enhanced antenna
Send Wi-Fi signals over 100 meters without any other router.

Transport case (flight case)
Customized transport case offering full protection during transport with protection class IP67.

Universal bracket
Placed on a flat operating surface, height can be adjusted, can stand vertically or horizontally, easy to use

Tripod（Non-standard configuration）
Allows completely flexible and easy positioning around the object.
Adjust different heights, directions, etc., easy to operate.

Wired cable (15 m)
Cable power and communication between workstation and detector.

