

Powering greater productivity.

Waygate Technologies ISOVOLT
Titan|neo X-ray generator





ISOVOLT Titan|neo generator

Generate better outcomes.

Empower your operations with the ISOVOLT Titan|neo generator, the newest product in Waygate Technologies established line of X-ray generators.

Optimized for industry and backed by excellence, the ISOVOLT Titan|neo generator powers a range of radiographic inspection technology. Beyond being easy to use and maintain, it delivers reliable, consistent results in the highest accuracy applications—giving you precision, greater uptime, and peace of mind.



Robust and reliable



Easy to maintain



Backed by excellence



User-friendly



Highly compatible

Inspect more each day.

Inspect more to achieve more. Get the reliable, powerful performance you need to optimize outputs and inspect multiple parts each day, no matter the application.

Performance that never sleeps

The Titan|neo generator offers the best, most consistent performance available to meet a range of needs, from multi-cycle exposures to hours of continuous operation. Its rugged design includes intelligent tube integration and permanent system monitoring—offering unmatched ramp-up times* and a 100% duty cycle for continuous operation in inline systems**.

Quality you can quantify

Reduce exposure times for various materials in several operation modes with excellent dose reproducibility. This system provides high, stable radiation with fluctuations <0.05%. Its extended tube range and maximum current ensure enhanced imaging contrast and high penetration power, delivering greater dependability.

*Depending on permissible tube data.

**Subject to optional generator cooling.

There's no time for downtime.

When productivity is a priority, the ISOVOLT Titan|neo generator performs. It's easy to use and maintain, saving you time, money, and hassle. So you can focus on optimizing operations.

Convenient control

A user-friendly interface with a modern industrial control module makes for fail-safe and simple operation.

Stress-free service

A modular design and patented maintenance-free high voltage connectors make for easy, non-disruptive installation, operation, service, and replacement—reducing the time and resources needed for any repairs, and decreasing the total cost of ownership.

Safer operations

With a number of built-in safety features and instant, automatic recognition of system status and health, you can enhance operational safety (Performance Level E), maximize equipment lifetime, and keep your processes under control.

Increased flexibility

Due to the modular structure, it is possible to change from the bipolar to the unipolar configuration by simply changing the connections. This possibility can reduce the need for additional generators and the related costs for operation with a wide variety of X-ray tubes and parameters.

Additional functions, such as the automatic adjustment of the heating current based on the specific high-voltage cable length, support the simple conversion.



Tailored to your specific needs.

The ISOVOLT Titan|neo generator is designed to keep up with increased pressures and production speeds. Its enhanced reliability and outstanding availability improve uptime.

No matter your automation and customization requirements, this generator delivers. Its modular, flexible design, makes for easy integration into several environments and external platforms—saving you time, money, and stress.

When paired with other Waygate Technologies products, it offers even greater synergy within your radiographic inspection system to reduce unplanned downtime and maintenance.



Empower greater potential.

A broad range of tubes, kits, and accessories complement integration and application capabilities—helping you not just meet your individual needs, but maximize the potential of every inspection.

The ISOVOLT Titan|neo is compatible with the accessories of its previous generations, so that it can replace existing ISOVOLT Titan generators one-to-one without the need for a range of new accessories.

Safety Devices

- Primary interlock switch
- Alarm box and switch box
- Flash and warning lamps
- Country-specific safety kits

Integration and Solution Kits

- Exposure Calculator
- Titan PC (external PC-based visualization)
- PROFIBUS extension kit
- Optional R24 high-voltage socket instead of the maintenance-free high-voltage socket (in order to be able to continue using R24 cables already in the field)
- Optional Water-cooled generator version for use at elevated ambient temperatures

Dosimetry and Calibration Kits

- Voltage divider (incl. calibration certification)

High Voltage Cables

- In different standard lengths, with maintenance-free plugs

Pumps and Coolers



PWL 5000 WT



OL 4503



Voltage Divider



OW 4002



OLK 50

A legacy of excellence. A future of possibility.

With more than 125 years of X-ray experience and thousands of installations worldwide, the ISOVOLT platform is known for its reliability and performance in the radiography and NDT space. It provides a standard for X-ray generators everywhere. The ISOVOLT Titan|neo generator is just one part of Waygate Technologies revolutionary X-ray, CT technology, and digital radiography suite, and just one way Baker Hughes is setting the stage for future innovations designed to improve your operations.

Waygate Technologies, a Baker Hughes business

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