

WAVEMAKER® G5

*Achieve precision testing effortlessly.
Help shape the next generation of Guided Wave Technology.*

Advancing Guided Wave Inspection

The **Wavemaker® G5** sets a new benchmark in Guided Wave Testing, seamlessly integrating innovative technology into critical workflows. This approach sets the gold standard for Guided Wave Inspection—delivering the next level of performance and user experience you have come to expect from a top-tier GUL system.

The sophisticated and intuitive design of the G5 brings confidence that is indispensable in industries where safety, accuracy, and reliability are everything. The G5 delivers **technology you can trust**.

✓ Smarter Technology, Better Results

- New configurations to extend range in buried pipe
- Software enhanced **feature recognition**
- Wider frequency collection for better defect detection
- **Unmatched reliability** in challenging environments

✓ Maximise Your Team's Potential

- Procedure-based collection empowers L1 inspectors
- Streamlined reporting for efficiency
- Simplified analysis workflows for accuracy
- Instant troubleshooting with **remote assistance**

✓ Always Ready – Work Without Delays

- On-board touchscreen computer for direct control
- Hot-swappable batteries for uninterrupted operation
- Option to connect to external laptop for flexibility
- Remote calibration to stay operational

✓ Trusted by Professionals, Backed by Experts

- Industry-leading training & qualification by experts
- GUL patented technology that redefines standards
- Unrivalled support – expertise that sets us apart
- Subscription-free software – no hidden costs

TESTIMONIALS

“The Wavemaker helped us identify precisely where issues existed, which meant fewer unnecessary digs. Helping our client save us hundreds of thousands in excavation and remediation costs. Happy clients, Happy customer.”

– Advanced Services Manager, NDT Service Provider

“With the Wavemaker, we've significantly improved our ability to detect corrosion under insulation and long-range pipeline defects—without disrupting operations. It's become a cornerstone of our integrity assessments.”

– Pipeline Integrity Manager, Global Oil & Gas Operator

Instrument	
Dimensions (W x H x D)	330 x 260 x 145 mm [13" x 10.2" x 5.7"]
Weight - with 2 batteries	6.7 kg [14.8 lbs]
Display	
Type	Glove compatible, multi-touch, ultra-bright toughened glass bonded LCD.
Size	26.6 cm [10.1"]
Resolution	1920x1200
Protection	Replaceable anti-reflective & anti-fingerprint
Storage	
Main	64 GB eMMC
Secondary	64 GB Flash (Expandable)
External	USB 3.0 Drive
GPS	
Channels	99 (multi-GNSS receiver)
Constellations	GPS, GLOSNASS, Galileo, QZSS
Accuracy	< 2.5m CEP (Horizontal)
External PC Connectivity	
USB	USB 2.0
Wireless (*Coming Soon)	Wi-Fi 6, 4G
General Connectivity	
Host	USB-A 2.0 (x3), USB-C 3.2, Bluetooth 5.2
Video Output	HDMI (USB-C Dock Adapter Required)
User Verification	
Inspector ID	Reads & updates 'iButton' ID keys
Environmental & Compliance	
Operating Temperature	-10°C to 40°C [14°F - 104°F]
Operating Humidity	Up to 95% RH (non-condensing)
IP Rating (designed to)	IP54
Compliance	CE, UKCA, WEEE, FCC Part 15, ICES-001
Power	
Battery	
Type	Dual Hot Swappable 99.4 Wh Li-Ion Smart Rechargeable
Compliance	IEC62133/ CE / UL2054 / FCC / UKCA PSE / KC / BSMI / Gost-R / CMIM / CCC / RCM / BIS / TISI UN 38.3 / RoHS / REACH
Typical Battery Life	150 standard tests
Charging	
External Power Supply	Generic USB-C Charger or GUL Charger



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Software	
Controlling Software	
Instrument	Wavemaker® WaveProX™
External PC	Wavemaker® WaveProV™
Collection	
Max sample range (each direction)	400 m [1,300 ft]
Max number of averages	1024
Processing & Signal Analysis	
Unrolled Pipe (EFC)	Total Full Matrix Focusing - C-Scan type display
Absolute Calibration	Automatic DAC calibration
False Echo Simulation	Mirror + Reverberation detection
Channels	
Number of transducer channels	32
Transmitter	
Transmitter frequency range	5 to 750 kHz
Maximum output drive voltage	400 Vpp
Maximum rep-rate	25 Hz
Receiver	
Converter sampling frequency	100 to 5000 kHz
Receiving gain range	10 to 90 dB
Analogue band pass filter range (Variable)	5 to 750 kHz
Diagnostics	
Dedicated Channels	On-board connections for instrument, sensor, and cable performance verification
Compatibility	
Transduction	Piezoelectric transducers
Sensor Rings	All GUL Screening Rings & non-ATEX Monitoring Sensors
Sensor Interface	
Connectors	32 Channel ZIF, 8 Channel Lemos (x2)
Identification	Detects configuration, size & serial number
Capacitance	Measures transducer ring capacitance, with 0.1 nF precision
Pressure & Temperature	Reads pressure and temperature from Compact™, HD, & HT rings
Orientation	Detects orientation for Compact™, HD, & HT rings
Module Type	Detects module for Compact™ rings
Warranty & Support	
Warranty	Standard 1-year warranty included. Extended options available.
Support	Support through our dedicated training and support teams.

www.guided-ultrasonics.com