Technical Data

Waygate Technologies
a Baker Hughes business

Display screen	
Size Diagonal	7″
Active range (W × H)	152.4 × 91.44 mm2
Resolution (W × H)	800 × 480 pixels
Range	4 … 14,108 mm (555″) for longitudinal wave
Display	
Display shift (delay)	–15 … 3,500 µs
Probe delay	0 … 1,000 µs
Velocity	250 … 16,000 m/s
PRF	Automatically optimized 15 … 2,000 Hz, 3 automatic setting modes: Auto Low, Auto Med, Auto High, Manual
Connectors	
Probe connectors	2 × LEMO-1 or 2 × BNC
USB interface	USB type B connector
Service interface	LEMO-1B, 8 pin
Pulser	
Pulser mode	Spike pulser, optionally: Square-wave pulser
Pulser voltage (SQ mode)	120 … 300 V, in steps of 10 V with a tolerance of 10%
Pulser falling/rising time	max. 10 ns
Pulser width (SQ mode)	30 … 500 ns, in steps of 10 ns
Pulser amplitude (Spike mode)	low: 120 V, high: 300 V
Pulser energy (Spike mode)	low: 30 nS, high: 100 nS
Damping	50 ohms, 1000 ohms
Receiver	
Digital gain	Dynamic range 110 dB, adjustable in steps of 0.2 dB
Analog bandwidth	0.5 … 20 MHz
Equivalent input noise	<80 nV/√Hz
Filters	Broadband: 1-5 MHz / 2, 2.25 MHz / 4, 5 MHz / 10 MHz / 13, 15 MHz
Rectification	Positive half-wave, negative half-wave, full wave, RF signal
Gates	
Independent gates	Gates A and B (triggering by gate A), Gate C (option, triggering by gate A or B)
Measurement mode	Peak, Flank, J-FLANK, FIRST PEAK
Memory	
Card slot	SD-card slot for all standard SD-cards
Capacity	8 GB, SD-card
Datasets	UGO data structure in ASCII
Reports	JPG or BMP format

General	
Battery	Li-Ion, operating time: 13 hours with full charge / Charging method (standard): internal with power adapter / Charging method (optional): external charger / Charge level: proportional charge level indicator
Power adapter	Universal power supply unit 100 … 240 VAC, 50/60 Hz
Size (W × H × D)	255 × 177 × 100 mm (10″ × 7.0″ × 3.9″)
Weight	2.2 kg incl. battery
Languages	Bulgarian, Chinese, Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish
Damp heat and humidity (storage)	EN 60068 Part 2-30 6 cycles: 9 hrs at +25°C up in 3 hrs to +55°C, 9 hrs at +55°C then down to +25°C in 3 hrs, at 93% humidity
Vibration	EN 60068 Part 2-6 2g per axis, 5 … 150 Hz, 1 oct/min, 25 cycles
Shocks	EN 60068 Part 2-27 1000 cycles per axis, 15 g, 11 ms, half-sine
Enclosure	IP66 according to IEC 60529
Operating temperature	–10 … 55°C
Cold operation	–10°C for 16 hrs, 502.5 Procedure II
Heat operation	+55°C for 16 hrs, 501.5 Procedure II
Storage temperature	–20 … +60°C, without battery
Cold storage	–20°C for 72 hrs, 502.5 Procedure I
Heat storage	+70°C for 48 hrs, 501.5 Procedure I
Options	
AWS	AWS calibration tool, according to AWS D1.1 Structural Welding Code
DAC/JISDAC/CNDAC	DAC calibration tool, 16 points, according to EN 1712, EN 1713, EN 1714, ASTM E164, ASME, ASME III, JIS Z3060, GB11345 TCG: 120 dB dynamic, 110 dB/µs slope
DGS	DGS calibration tool, according to: EN 1712, EN 1713, EN 1714, ASTM E164
Data logger	Grid file creation
3G	Gate C
SWP	For pulser parameter optimization, voltage setting 120 … 300 V in steps of 10 V, pulse width setting 30 … 500 ns in steps of 10 ns
Phantom-PRF	Phantom-PRF for the identification of erroneous echoes caused by multiple reflections in low-attenuation materials
BEA	Blackwall Echo Attenuation
Specifications according to ISO 22232	
You will find the specifications according to ISO 22232 for your instrument on the product CD included in the standard package.	

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