



Specifications

LCD

Active Area	W: 108 mm (4.25") x H: 64.8 mm (2.55")
Size	5.0"
Pixel Resolution	800 (W) x 480 (H) dot

Connectors

Probe Connectors	Two LEMO-00
UT Output Connector	SAP output, Alarm
USB Interface	micro USB connector
SD-Card Connector	Full size SD card slot to accommodate standard SD cards

Pulser

All pulser measurements taken according to EN12668 specifications

Pulser Mode	Simulated spike standard, Uni-polar adjustable square wave optional
Pulser Voltage (SQ Mode)	120 V to 300 V with 10 V step in a tolerance of 10%
Pulser Width (SQ Mode)	30 ns to 500 ns with 20 ns step in a tolerance of 10%
Pulser Amplitude (Spike Mode)	Low: 120 V, High: 300 V
Damping	50 or 1000 Ohms
PRF	Automatically optimized between 15 Hz to 2000 Hz, 3 automatic adjustment modes: AutoLow, Auto Med, AutoHigh - Optional "phantom echo" manual control of PRF from 15 to 2000 Hz

Receiver

Range	14016 mm at steel longitudinal wave (557")
Digital Gain	Dynamic range of 110 dB, with 0.2 dB step
Analog Bandwidth	0.2 MHz - 20 MHz
	Broad Band
	1-5 MHz
Rectifications	2, 2.5 MHz
	4, 5 MHz
	10 MHz

Gate

Independent Gates	2 gates (A and B), Gate B supports triggering by gate A
Filters	Positive (POS) Full wave (FW) Negative (NEG) RF
Measurements	Peak Flank Jflank

Memory

Capacity	Up to 16GB SD card (comes standard with 2GB SD card)
Report	JPG or BMP report files. UltraMATE compatible datarecorder files.

Environmental

	5.5 hours
Battery	On board charging Off board charging with optional adaptor Proportional battery gauge indicating remaining operation time
Charger	"Universal" AC (100-240 V, 50-60 Hz) Meets CCC, CE, UL, CSA and PSE requirements
Size	175 mm x 111 mm x 50 mm
Weight	845 g (1.87 lb) with the battery

Protection as per MIL-STD-810F

Damp Heat & Humidity (Storage)	10 Cycles: 10 hrs at 60°C (140°F) down to 30°C (86°F), 10 hrs at 30°C (86°F) up to 60°C (140°F), transition within 2 hrs, 507.4
Temperature Shock (Storage)	3 Cycles: 4 hrs at -20°C (-4°F) up to 60°C (140°F), 4 hrs at 60°C (140°F), transitions within 5 minutes, 503.4 Procedure II
Vibration	514.5-5 Procedure I, Annex C, Figure 6, General exposure: 1 hr each axis
Shock	6 cycles each axis, 15 g, 11 ms half sine, 516.5 Procedure I
Loose Cargo (In Shipping Container)	514.5 Procedure II
Transit Drop (Packaged for Shipment)	516.5 Procedure IV, 26 drops
Operating Temperature Range	0°C to 55°C (32 to 131°F)
Storage Temperature Range	-20°C to 60°C (-4 to 140 °F) with battery, 24 hrs
Dust Proof/Dripping Water Proof	As per IEC 529 specification for IP67 classification
Compliance	EMC/EMI EN 55011 EN61000-6-2:2001 EN 12668 ASTM E1324 E317 Ultrasound ANS/NCSL Z 540-1-1994 MIL STD 45662A MIL STD 2154

Receiver

USM Go AWS Option	AWS sizing tool according to AWS D1.1 Structural welding code
USM Go Dac Option	Dac sizing tool EN 1712- EN 1713 – EN 1714 16 points ASME & ASME III Compliant with JIS Z3060 compliant TCG: 120 dB dynamic TCG: 110 dB/μs slope
USM Go DGS Option	DGS sizing tool compliant with EN 1712 Including new trueDGS technology
USM Go Embedded Datalogger Option	Custom linear and grid file creation
USM Go Squarewave Pulsar Option	Allows pulser parameters fine tuning Voltage adjustment from 120 V to 300V per 10 V steps Pulse width adjustment from 30 ns to 500 ns per 10ns steps
USM Go Manual PRF and Phantom Option	Allows Manual PRF optimization between 15 Hz and 2000 Hz per step of 5 Hz. Phantom PRF will help to identify ghost echo due to multiple reflections in low materials