



# Stroud Systems, Inc

Providing Material Testing Solutions Since 1962

**New! Mach I**



## Ultrasonic Flow Detector

Mach-I NewSonic Mach-I Ultrasonic Flow Detector

Specifications	
Test Range	0.500 in to 200 in (10 mm to 5000 mm)(in steel). In Hot Key Mode it has 13 preset values. In Fine Mode it is adjustable in step of 1mm.
Velocity	0.0400 in/ $\mu$ s to 0.4000 in/ $\mu$ s (1000 m/sec to 9999 m/sec). In Hot Key Mode it has 7 preset values. In Fine Mode it is adjustable in step of 1 meter/second,
Delay	Variable from 0 to 100 in (0 to 3000 mm)
Gain	Total Amplifier Gain: 140 dB. Calibrated Gain: 100 dB adjustable in steps of 0.5,1,2,6,12 or 20 dB.
Rejection	0 to 80% FSH with LED indication
Rectification	Full wave rectification with filtering.
Frequency	Broad Band amplifier 0.5 MHz to 15 MHz.
Test Modes	Pulse Echo and Transmit/Receiver.
Connectors	BNC and LEMO (Size 1) both are provided.
Monitor	Dual gate adjustable in 1% of Screen width with Positive/Negative logic, Gate Expand modes.
Gate Expand	Expands Range to width of the gate.
A-Scan Memory*	200 Trace Patterns can be stored, recalled, printed or transferred to PC via RS-232 serial port.
Calibration Setup	50 different calibration set-ups can be Stored and Recalled.
Software*	Using "NewSoft TFT" software A-Scan with calibration set-ups can be transferred to PC via RS-232 serial link for storage in PC or printing.
Printer Attachment	IBM compatible Printer having serial port can be directly attached to main unit for printing of stored A-Scan waveform with calibration data.
Display	High brightness Color TFT LCD Display. Display area 320 x 240 pixel (122x92 mm). Eleven different color scheme options.
Full Screen	By pressing Zoom key A-Scan can be displayed in Full Screen area.
Reference A-Scan*	Reference A-Scan pattern of standard test object can be saved and recalled in the background for easy comparison during testing.
DAC*	DAC curve can be entered using minimum 2 to maximum 10 points and then digitally drawn with -6dB and -14dB curves.
Digital Readout* and Trig. Function	Thickness/Depth can be displayed in digital readout when using a normal probe and Beam path, Surface Distance and Depth are directly displayed when angle probe is in use.
Update Rate	50Hz
Power	Lithium-Ion Battery pack 14.4VDC, 4AH, gives 8 hours continuous operation from fully charged battery.
Charger	Input Voltage 100 to 240 VAC. Charges status indicator is provided.
Temperature	32° to 131°F (0 to 55° C)
Size	5.98 in H x 10.04 in W x 2.76 in D (152x255x70 mm)
Weight	5.07 lbs (2.3 kg.) with Battery.

600 N. Shepherd Dr. Suite 115 Houston, TX, 77007

Phone: (713) 861-3270 Fax: (713) 861-4784

customerservice@stroudsystems.com www.stroudsystems.com