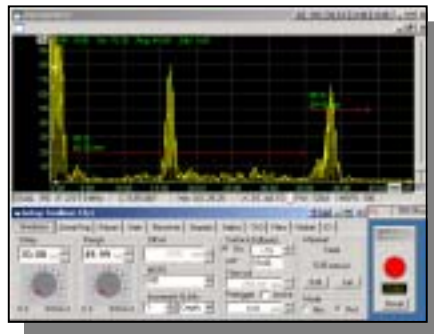


UT/MATE ULTRASONIC MODULE



*Convert your computer into a powerful UT instrument by simply connecting UT/Mate to the USB port**



UT/MATE ULTRASONIC MODULE

UT/Mate TECHNICAL SPECIFICATION**

Overall Analog Performance	
Analog bandwidth	1 to 45MHz (-6dB)
Calibrated gain	85dB
Gain step size	0.2dB
Equivalent input noise	<6nV/√Hz
Linearity	± 1dB
Channels	
Number of channels	1
Channel triggering	Internal or external
Pulser Characteristics	
Excitation waveform	Square wave
Amplitude	8 levels
Max. pulse amplitude, 50Ω load	350V ± 10%
PRF per channel	1 to 1,000Hz
Damping	2 settings
Stability	± 2% FSH
Mode	PE, TT
Pulse fall time	< 6nsec
Single pulse width	10-100 nsec
Pulse width resolution	1 nsec
Isolation (PE/TT)	> 65dB @ 5MHz
Preamplifier Characteristics	
Programmable gain	0, 15, 30, 45dB
Frequency Filters	
Number and type of filters	4 fixed
Time Base	
Range	100nsec to 1,000μsec
Delay	0 to 1,000 μsec
Resolution	10nsec
Gates	
Number per channel	4, expandable to 32
Range	100 nsec to 1,000μsec

Delay and range	10 nsec to 1,000μsec
Resolution	10nsec
Peak detection	Positive, negative or absolute
Alarm threshold	Positive or negative going
Surface follower	Threshold - based
DAC	
Dynamic range	51dB
Resolution	0.2dB
Range	160nsec – 1msec
Timebase resolution	160nsec
Position resolution	10nsec (first step)
Slew rate	40dB/160nsec
Analog to Digital Conversion	
Resolution	8 bit
Sampling rates	12.5, 25, 50, 100 msps, single shot
High speed buffer	1MByte
Interleave (optional)	200, 400, 800 MSPS
Host Computer (minimal requirements)	
Connection	USB 2.0 or 1.1
Processor (CPU)	800MHz
Memory (RAM)	128 MB
Hard drive (HD)	10 GB
Operating system	Windows 2000 / XP
Remote Control for Main Functions	
General	
Power consumption	2.5 W Max.
Operating temperature range	5 to 50°C
Humidity	<95% non-condensing
Dimensions	180mm x 82mm x 25mm (7" x 3.2" x 1") – W X H X D
Weight	480g (1.06 pound)

* Please address your nearest **ScanMaster** representative for updated list of certified models.

** Specifications are subject to change without notice.

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