M2M MULTI2000™

Pocket

Rugged box

LIGHTWEIGHT EQUIPMENT WITH LAPTOP

Multi2000 Pocket is a highly portable pocket systems available in 16x64 configurations. Rugged box is ideal for industrial use.

GENERAL

Standard box	Rugged box
L x W x H: 212mm x 145mm x 70mm	L x W x H: 200mm x 150mm x 100mm
Weight: ~1,3kg (battery included)	Weight: ~2,6kg (no battery inside)
Operating temperature: 0°C > 40°C | 32°F > 104°F	Operating temperature: -10°C > 50°C | 14°F > 122°F
IP 30	IP 50 - Fanless

ACQUISITION

Hardware acquisition gates, Software gates, Synchronization of gates	Choice of data (e.g., RF, peaks, elementary A-Scan), Real-time imaging, User-specified configuration
Acquisition trigger on event (threshold, echo, etc.), Acquisition on user-specified trigger (e.g., time, coder)	Public file format for parameters (XML) and data (binary), Max. data flow 30 MB/s

PHASED-ARRAY

Customized focusing, electronic scanning, sectorial scanning, DDF	Fast multiplexing
Inspection modes: pulse-echo and transmit-receive modes	Corrected images (e.g., sectorial B-Scan, C-Scan)

NDT SIMULATION

CIVA subset into Multi2000 software, complete description of the inspection configuration	Focal-laws and associated ultrasonic field computation

Eddyfi Technologies

SPECIFICATIONS

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PULSERS

Adjustable voltage: 10 to 80V with 1V step	Rise time < 10 ns (80V, 50 Ω)
Negative rectangular pulse	Max. PRF: 30 KHz
Adjustable width: 30 ns to 625 ns, step of 2.5 ns	

RECEIVERS

Bandwidth: 0.8 to 20MHz	Max. input signal amplitude: 0.8 Vpp
Adjustable gain on each channel from 0 to 80 dB	Adjustable analog DAC on 80 dB (max. 40 dB/µs) synchronized on events
Cross-talk between two channels > 50 dB	

DIGITIZER

Max. sampling frequency: 100 MHz (adjustable from 100 MHz to 6.6 MHz)	Delay-laws at transmission/reception: 0 to 20 µs, step of 2.5 ns
Range : 10 bits	Digitizing depth: up to 50,000 samples (8,000 samples max. per elementary channel)
Input impedance: 50 Ω, global delay: 0 up to 1.6 ms, step of 10 ns	

COMPATIBILITY

ENLIGHT, CIVA	NDT kit / ULTIS

HARDWARE / FIRMWARE CONFIGURATION

Multiplexed architecture: 16x64	2 CPU (PowerPC) on CPU board
Scalable device: up to 5 units in parallel	Windows-based PC, USB2 link between Hardware and PC (desktop or laptop)

I/O

1 Hypertronix connector	1 USB2
3 encoder inputs	2 LEMO connectors (type 00)
1 external trigger	External power supply input

Standard box

Rugged box

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