Multi2000

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acquisition	hardware acquisition gates, software gates, synchronization of gates acquisition trigger on event (threshold, echo, etc.), acquisition on user-specified trigger (e.g., time, coder) choice of data (e.g., RF, peaks, elementary A-Scan), real-time imaging, user-specified configuration public file format for parameters (XML) and data (binary), max. data flow 30 MB/s
phased-array	customized **focusing**, electronic scanning, sectorial **scanning** **inspection modes**: pulse-echo and transmit-receive modes, **DDF** with dynamic aperture 32 MB hardware **RAM** (enabling fast multiplexing), corrected **images** (e.g., sectorial B-Scan, C-Scan)
pulsers	adjustable **voltage**: 30 to 200V with 1V step, negative rectangular **pulse** adjustable **width**: 30 ns to 625 ns, step of 2.5 ns, rise time < 10 ns (200V, 50 Ω), max. **PRF**: 30 KHz
receivers	bandwidth: 0.8 to 20 MHz, 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, max. input signal amplitude: 0.8 Vpp
digitizer	digitizing and real-time summation on 8-channel boards, dynamic range: 10 bits, FIR filters max. sampling frequency: 100 MHz (adjustable from 100 MHz to 6.6 MHz) input impedance: 50 Ω, global delay: 0 up to 1.6 ms, step of 10 ns delay-laws at transmission/reception: 0 to 20 µs, step of 2.5 ns digitizing depth: up to 50,000 samples (4,000 samples max. per elementary channel)
embedded processors	2 CPU (PowerPC) on CPU board
hardware configuration	multiplexed architecture: 16x64-, 32x128-, and 64x256-channel
NDT simulation	**CIVA subset** into Multi2000 software, complete description of the inspection configuration focal-laws and associated ultrasonic field computation
compatibility	CIVA, NDT kit / ULTIS
platform	Windows-based PC, USB2 link between Hardware and PC (desktop or laptop)
dimensions	(16x64, 32x128) L x W x H: 316mm x 342mm x 133mm - Weight: ~7.5 kg (64x256) L x W x H: 436mm x 449mm x 133mm - Weight: ~11 kg
I-O	2 Hypertronix connectors, 8 encoders input, 2 external triggers 1 USB2, 16 analog inputs, 4 LEMO connectors (type 00) (up to 8 optional)

www.m2m-ndt.com

phased-array technologies

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