



MultiX

M 2 M

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, full matrix capture (FMC) smart flexible probe (TCI)*, surface-adapted ultrasound (SAUL)* inspection modes: pulse-echo and transmit-receive modes, DDF with dynamic aperture 32MB hardware RAM (enabling fast multiplexing), corrected images (e.g., sectorial B-Scan, C-Scan)
digitizer	digitizing and real-time summation on 32-channel boards, range: 12 bits 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)
receivers	bandwidth: 0.8 to 15 MHz, adjustable gain on each channel from 0 to 80 dB adjustable analog DAC on 80 dB (max. 40 dB/μs) synchronized on events, FIR filters cross-talk between two channels > 50 dB, max. input signal amplitude: 0,8 Vpp
embedded processors	2 CPU (PowerPC) on CPU board
hardware configuration	parallel architecture: 32-, 64- and 128-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	(32, 64) : L x W x H: 342mm x 316mm x 177mm - Weight: ~8,8 kg (128) : L x W x H: 449mm x 435mm x 177mm - Weight: ~13.7 kg
I-O	2 Hypertronix connectors, 8 encoders input, 2 external triggers 1 USB2, 16 analog inputs, 4 LEMO connectors (type 00)

*optional

