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
- custom focusing, electronic scanning, sectorial scanning, DDF inspection modes: pulse-echo and transmit-receive modes
- fast multiplexing, corrected images (e.g., sectorial B-Scan, C-Scan)

pulsers
- adjustable voltage: 10 to 80V with 1V step, negative rectangular pulse
- adjustable width: 30 ns to 625 ns, step of 2.5 ns, rise time < 10 ns (80V, 50 Ω), max. PRF: 30 KHz

receivers
- bandwidth: 0.8 to 20MHz, adjustable gain on each channel from 0 to 80 dB
- adjustable analog DAC on 50 dB (max. 40 dB/µs) synchronized on events
- cross-talk between two channels > 50 dB, max. input signal amplitude: 0.8 Vpp

digitizer
- max. sampling frequency: 100 MHz (adjustable from 100 MHz to 6.6 MHz), range: 10 bits
- 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 (8,000 samples max. per elementary channel)

embedded processors
- FPGA on CPU-board

hardware configuration
- Multiplexed architecture: 16x64

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
- L x W x H: 212mm x 145mm x 70mm - Weight: ~1.3kg (battery included)

I-O
- 1 Hypertronix connectors, 3 encoders input, 1 external trigger
- 1 USB2, 2 LEMO connectors (type 00)
- External power supply input

* Performance may be reduced depending on the settings.