

# Multi2000

## Pocket



### product line

**Portable.** Multi2000 Pocket is a highly portable pocket systems available in 16x64 configurations.\*



<b>acquisition</b>	acquisition <b>trigger</b> on event (threshold, echo, etc.), acquisition on <b>user-specified</b> trigger (e.g., time, coder) choice of <b>data</b> (e.g., RF, peaks, elementary A-Scan), real-time <b>imaging</b> , user-specified configuration public file format for parameters (XML) and data (binary), max. data <b>flow</b> 30 MB/s
<b>phased-array</b>	custom <b>focusing</b> , electronic scanning, sectorial <b>scanning</b> , <b>DDF</b> inspection <b>modes</b> : pulse-echo and transmit-receive modes fast multiplexing, corrected <b>images</b> (e.g., sectorial B-Scan, C-Scan)
<b>pulsers</b>	adjustable <b>voltage</b> : 10 to 80V with 1V step, negative rectangular <b>pulse</b> adjustable <b>width</b> : 30 ns to 625 ns, step of 2.5 ns, rise time < 10 ns (80V, 50 Ω), max. <b>PRF</b> : 30 KHz
<b>receivers</b>	<b>bandwidth</b> : 0.8 to 20MHz, adjustable <b>gain</b> on each channel from 0 to 80 dB adjustable analog <b>DAC</b> on 50 dB (max. 40 dB/μs) synchronized on events <b>cross-talk</b> between two channels > 50 dB, max. input signal amplitude: 0.8 Vpp
<b>digitizer</b>	max. <b>sampling frequency</b> : 100 MHz (adjustable from 100 MHz to 6.6 MHz), <b>range</b> : 10 bits input <b>impedance</b> : 50 Ω, global <b>delay</b> : 0 up to 1.6 ms, step of 10 ns <b>delay-laws</b> at transmission/reception: 0 to 20 μs, step of 2.5 ns <b>digitizing</b> depth: up to 50,000 samples (8,000 samples max. per elementary channel)
<b>embedded processors</b>	FPGA on CPU-board
<b>hardware configuration</b>	Multiplexed architecture: 16x64 *
<b>NDT simulation</b>	<b>CIVA subset</b> into Multi2000 software, complete description of the inspection configuration focal-laws and associated ultrasonic field computation
<b>compatibility</b>	CIVA, NDT kit / ULTIS
<b>platform</b>	Windows-based PC, USB2 link between Hardware and PC (desktop or laptop)
<b>dimensions</b>	<b>L x W x H</b> : 212mm x 145mm x 70mm - <b>Weight</b> : ~1,3kg (battery included)
<b>I-O</b>	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.  
\* A 8x32 version, co-developed with Airbus Group, also exists.