

Alto-6i & Alto-Lite

Multi-Function DSP Analyzers



Alto-6i



Alto-Lite

The *Alto* is a high-performance DSP analyzer. Connected to a PC, the *Alto* provides a complete toolbox for acoustics and vibration measurements. Offering 6 or 4 24-Bit asynchronous inputs and 2 outputs, the *Alto* isn't only an acquisition board. Its core is a powerful TI 6000 Series DSP that takes charge of critical computation to ensure high-performance real-time signal processing. Compact, low-consumption, and flexible, the *Alto* provides a professional measurement system at a very competitive price.

Specification	Alto-6i	Alto-Lite
Processor	Texas Instrument TMS320C6424	
Inputs	6	4
Outputs	2	
Connections	LEMO 0B Series	
Dynamic Range	100 dB	
Input Range	6 x ($\pm 1.5V$)	2 x ($\pm 1.5V - \pm 6V$) + 2 x ($\pm 1.5V$)
Linear Input Range@ 50 mV/Pa	6 x (30-119dBA) *	2 x (30-119dBA or 36-130dBA) + 2 x (30-119dBA) *
Random Noise	< 14 $\mu V(A)$, < 17 $\mu V(Z)$ at 0.1 Hz	
Noise Floor	25 dBA, 30 dBC, 30 dBZ *	
Cross-talk	> 115 dB at 1 kHz	
Maximum Sampling Rate	48 kHz	
Signal Conditioning	AC, DC, ICP (4mA)	
Input High-Pass Filter	Adjustable 0.1 to 16 Hz	
Communication	USB 2.0 and Ethernet	
Dimensions	190 x 135 x 35 mm	
Weight	950 g	730 g
Power Supply	12 – 15 V DC	
Internal Battery	NIMH 7.2 V 2600 mAh (~4h)	-

*Using a 50mV/Pa microphone