

Technical Datasheet **LOG 3000 - Notebook Correlator**

General information

Vibraphone	<p>Very robust construction brings outstanding sensitivity of 1000V/g and high tolerance to impact.</p> <p>All stainless steel construction.</p> <p>Fully constructed from non-magnetic materials for insensitivity to stray magnetic AC fields, for instance from nearby power transformers.</p>
Transmitters	<p>Vibraphone input has a very large AGC (automatic gain control) range from 10uVpp to 3Vpp. This allows the LOG3000 to correlate from barely audible leaks up to very loud, large leaks.</p> <p>3.5mm Headphone jack to verify placement of Vibraphone.</p> <p>Operates in License free band.</p> <p>Colored red and blue with a durable baked-in powder coating.</p>
Receiver	<p>One antenna for both channels, BNC connector allows the use of a vehicle mounted antenna for extended range.</p> <p>Connected through USB with Laptop.</p> <p>Loudspeaker allows an acustically verify the correct placement of the vibraphones, it plays the left or right channel selectable with volume control.</p>
Software	<p>Correlation with 128 kByte sample size.</p> <p>All Windows version supported, usually delivered with Windows XP home or professional.</p> <p>Printing to all printers supported by Windows.</p> <p>1000 Correlations can be stored.</p> <p>Report generator.</p> <p>Drawing function.</p> <p>Surface correlation.</p> <p>Automated Length and Speed of Sound determination.</p> <p>Real time correlation.</p> <p>Auto correlation.</p> <p>Histogramm</p>
Carrying Case	<p>All components are fitted into the firm foam padding of the carrying case.</p> <p>Maximal weight of a complete system including the laptop computer: 13kg.</p>

Transmitter

Splash proof transmitter housing	made of die-cast aluminum
Frequency range	10mW on the licence-free 433MHz IMS band
	Antenna not removable
Band wide	BLUE 433.125MHz fixed (+/- 8 kHz)
	RED 434.625MHz fixed (+/- 8 kHz)
Microphone with AGC (automatic gain control)	
Headphone jack for audio monitoring	
Filter options:	: Steel 300-3000Hz
	: Plastic/PE 1-300Hz
Combined microphone/charging jack	
Battery	: 6V 0.85Ah NiMh accu
Battery monitoring	: 5,3V +/- 0,1V
Automatic battery charging limit	: <1 50mA
Operating time	: 10 hours of continuous use
Battery charging	: 5-16 hours
Temperature range	: +50 -20°C
Internal fuse	: 5x20 mm 1A

Receiver

Strong, die-cast aluminium housing for use in hostile environments	
Twin receiver (red + blue)	
BNC antenna jack for 433 MHz vehicle antenna connection	
Monitor loudspeaker switchable to the 'RED' or 'BLUE' channel	
3,5mm stereo jack for a computer connection	
2,1 mm coax charging jack	
Battery	: 6V 1 ,2H lead acid/gel
Battery monitoring	: 5,3V +/- 0,1V
Automatic battery charging limit	: <150mA
Operating time	: >15 hours of continues use
Battery charging	: 10-16 hours
Temperature range	: +50... -20°C
Internal fuse	: 5x20 mm 1A

