

## VI-410 HUMAN VIBRATION MONITOR

**New Model** The Quest VI-410 is a four channel human vibration analyzer that can also be used as an integrating real-time sound analyzer.

The VI-410 utilizes the latest in digital signal processing technology to facilitate measurements in accordance with International and U.S.A. standards and regulatory requirements, including the European Vibration Directive in effect for the 25 states of the EC.

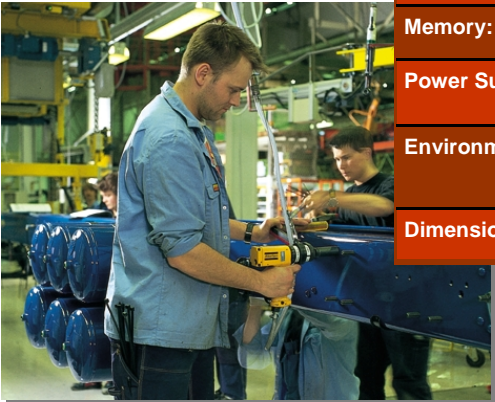
Four independent channels permit use of tri-axial accelerometers for measuring both hand-arm and whole body vibration and also simultaneously utilizing either an acoustic microphone or a mono-axial accelerometer on the 4th channel. Alternatively, each of the 4 channels may be independently configured with separate accelerometers.



### The Multi-Purpose VI-410 Human Vibration Monitor offers:

- 1/1 or 1/3 Octave Real-Time Analysis
- Optional FFT Spectra Recording
- Vibration RMS, Peak, VDV, MTVV or Max, Peak to Peak
- Built-in frequency weightings per ISO 2631 and 5349
- Precision Class 1 Sound Level Meter





## SPECIFICATIONS FOR THE VI-410

<b>Number of channels (Inputs):</b>	(4) input channels, 20 kHz real time, simultaneous vibration and noise measurements
<b>Data Logging:</b>	Time history logging to internal memory
<b>Analyzer:</b>	1/1 and 1/3 Octave-Band analysis Optional FFT Spectra Optional RPM rotation speed measurements parallel to vibration measurements (1-99999 rpm)
<b>Standards:</b>	Human vibration measurements meeting ISO 8041 and Acoustic Class 1 requirements of ISO 61672-1, plus latest EU directives for vibration and noise; also meets older IEC 60804 and 60651 sound level meter standards
<b>EMI/RFI Standards:</b>	CE Compliant
<b>Vibration Measurements:</b>	RMS, VDV, Peak, Peak-Peak, Min, Max (MTVV), Vector Sum, A(8), EAV Time, ELV Time, Time History, Aeq
<b>Sound Level Measurements:</b>	SPL, Leq/Lavg, SEL, Ldn, Ltm3, Ltm5, L1 to L99, Lmax, Lmin, Lpeak, Time History
<b>Vibration Filters:</b>	W <sub>D</sub> , W <sub>K</sub> , W <sub>C</sub> , W <sub>J</sub> , W <sub>M</sub> , W <sub>B</sub> , W <sub>G</sub> (ISO 2631), Wh (ISO 5349), HP1, HP3, HP10, Vel1, Vel3, Vel10, VelMF, Dil1, Dil3, Dil10, KB
<b>Sensors:</b>	Tri-axial accelerometer in both Hand-Arm and Whole Body types; mono-axial accelerometers; Class 1 Precision micro-phones and preamplifier
<b>Data Output Sockets:</b>	USB output to QuestSuite Professional II software
<b>Whole-Body Sensor:</b>	Tri-axial seat pad accelerometer, 100mV/g sensitivity
<b>Hand-Arm Sensor:</b>	Miniature tri-axial accelerometer, 10mV/g sensitivity
<b>Vibration Range:</b>	0.003 ms <sup>-2</sup> to 500 ms <sup>-2</sup> (Accelerometer Dependent)
<b>Frequency Range:</b>	0.5 Hz to 20 kHz (input accelerometer dependent)
<b>Display:</b>	LCD 128 X 64 pixels plus icons with backlighting
<b>Memory:</b>	32 MB non-volatile flash type
<b>Power Supply:</b>	Four AA batteries (alkaline) or Four AA rechargeable (NiMH) (not included)
<b>Environmental Conditions:</b>	Temperature from -10° to +50°C Humidity up to 90%RH non-condensing
<b>Dimensions and Weight:</b>	140 X 82 X 42 mm and 510 grams with batteries installed



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