

PC Environmental are proud to present

Impaq™

4-Channel Frequency Analyser

Impaq is designed for those who need to perform advanced multi-channel sound and vibration measurements in the field. Unlike most PC-based analyzers that requires a power cord and a gateleg table to setup a test, Impaq integrates all the necessary subsystems into a compact, 1.15kg (2.54 lbs) metal housing. With Impaq, infield testing is straightforward and enjoyable.



Equipped with the fastest commercially available DSP chip in the world (TI TMS320-6711), the Impaq can perform most analysis in real-time. One example is a real-time FFT analysis performed at 40 kHz with 12,800 lines of resolution.

Powered by the MS Windows CE operating system, Impaq offers a very intuitive operation and user friendly navigation of menus. This powerful operating system supports Compact Flash memory and USB interface. The Impaq utilizes both of these features to provide unlimited storage and simple connectivity to your computer.

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Standard Features

| | |
|----------------------------|---|
| Auxiliary channel | TTL in (external trigger, TTL out, RS-232C (to printer) |
| DSP Processor | TI TMS320C6711 |
| Internal memory | 16 MB Flash - Contains Windows CE |
| External Memory | CF card |
| Battery | Lithium-Ion 8.4V 5400 mAhr, rechargeable |
| PC Communication Interface | USB 1.1, mini B type USB connector |
| LCD Display | 240 x 320 Bright active matrix TFT, 65,536 colors, |
| Operating Temperature | -10° C to + 60° C |
| Safety Certifications | CE |
| Sealing | IP 65 |
| Housing material | Strong Aluminum Alloy- High EMI protection, Excellent Thermal Dissipation |
| Weight | 2.4 lb (1120 grams) |
| Size | 4.5 in x 8.9 in x 2.56in. (115mm*227mm*65mm) |
| Input Signal Range | +/- 20 Volts Max. |
| Dynamic Range | >90 dB |
| Frequency Range | 0 Hz to 40KHZ |

Features for optional FFT analysis

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|--------------------|--|
| FFT Real Time Rate | 40 kHz, Single Channel at 12,800 lines |
| FFT Resolution | User adjustable Single Channel from 100 to 12,800 lines or 4 Channels up to 3,200 lines. |
| Windows | Hanning, Flattop, Rectangular, Force, Exponential |
| Analysis Function | Spectrum, Power Spectrum, FRF, Time, Coherence |
| Engineering Units | Units Transform Automatically with Predefined Table. |
| Zoom FFT | Programmable Beginning Frequency Point |
| Average | Linear, Exponential, Time, Peak Hold |
| Trigger | External, Input Channel Triggering |
| Cursor | Single, Harmonic, Harmonic+ Single |

Software Packages Available: Description

| | |
|------------------|--|
| FFT, 1,2 4 | Choose 1, 2 or 4 channel FFT Spectral Analysis |
| Balance | Dual Plane Rotor Balancing |
| ODT | 4 Channel Real Time Order Tracking |
| 1/3 Octave | 4 Channel 1/3 Octave Analysis |
| Route Collection | Scheduled Measurement Software |
| Vibration Meter | 4 Channel Vibration Meter |

Options: Description

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|----------------|--|
| Carrying case | Hard Carrying Case for Impaq and Accessories |
| Adapting cable | 7 pin Lemo to BNC Connector, Length = 4 inches |
| Tachometer | Tachometer with Integrated Cable |
| Printer | Thermo Printer with RS-232C Interface |

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