

Kelunji Fusion

BLAST & VIBRATION RECORDER

FEATURES

- 24-bit ADC on 4 channels
- Up to 50kHz sampling
- Locked to absolute time using GPS or NTP
- USB data storage for continuous recording
- Ethernet connection for remote web login
- LCD panel & keypad for field settings
- Internal battery for all day recording

APPLICATIONS

Designed to advance the game in blast monitoring. Forget 12-bit blast monitors - improve your recording resolution and sensitivity by a factor of over 4000 with Fusion. No longer do you need wire-break triggering to synchronise your waveforms - with GPS time-locked recording and USB storage, you can set recorders to run all day recording continuously and triggering, with up to 4 channels recorded at up to 50kHz from your geophone and microphone.

LOGGERS / RECORDERS



“ The Kelunji performs seamlessly in the field. This is state-of-the-art instrumentation for blast vibration and airblast measurement. ”

Michael J Noy Ph.D.
Orica Mining Services

Designed specifically for blast monitoring, Fusion is the fastest, most powerful Kelunji we've ever made. A compact and rugged design combined with the Kelunji family's ease of use make this the best portable blast monitor on the market.

- HIGH RESOLUTION
- CONTINUOUS RECORDING
- RUGGED
- GPS TIMING
- LINUX OS



TECHNICAL SPECIFICATIONS

Overview

Robust case containing motherboard with 4GB storage memory, 4 Channel sensor interface, internal GPS receiver, Internal water resistant face plate, internal Li-Ion battery, internal LCD & keypad, internal high-gain GPS aerial, internal I/O switch, charger socket & USB socket, Li-Ion charger, external Ethernet port

Sensor Input Specifications

4 channel interface, 24-bit ADC on each channel

Differential inputs with $\pm 10V$ input range

114dB Dynamic Range @ 50,000sps (RMS to RMS)

Sensor groups user-configured as either:

- single-ended constant current inputs; or
- differential voltage inputs

Supports all seismic sensors, pressure microphones

Main Processor

500MHz x86 CPU processor clock speed

Embedded Linux operating system - 256MB RAM

Built-in 10/100 Ethernet and USB 2.0

Typical Battery Life

25 hours Standby

15 hours Recording

