

# Vibracord Hermes

High speed data logger with VoD capabilities.



First data logger designed for mining applications, with different working modes to make the device configuration easier:

Data logger mode

Near field vibration

Under water pressure

Velocity of detonation (VoD)

Up to 4 Channels

Portable and resistant, for open pit and underground operations.

7" Display with capacitive touchscreen.

Data is displayed immediately after recording, with numerical and graphical values.

Device is time efficient, converts voltage to units automatically saving operating time.

Automatic generation of binary and exported files in CSV format.

Powered by NiMh batteries, allowed in both checked and carry-on baggage.

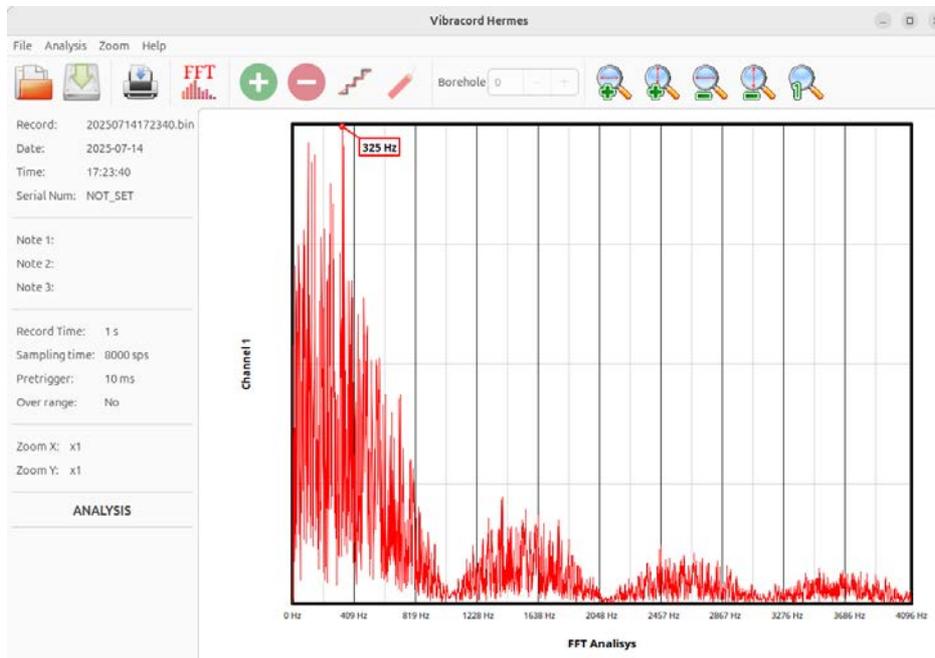
## VIBRAQUIPO

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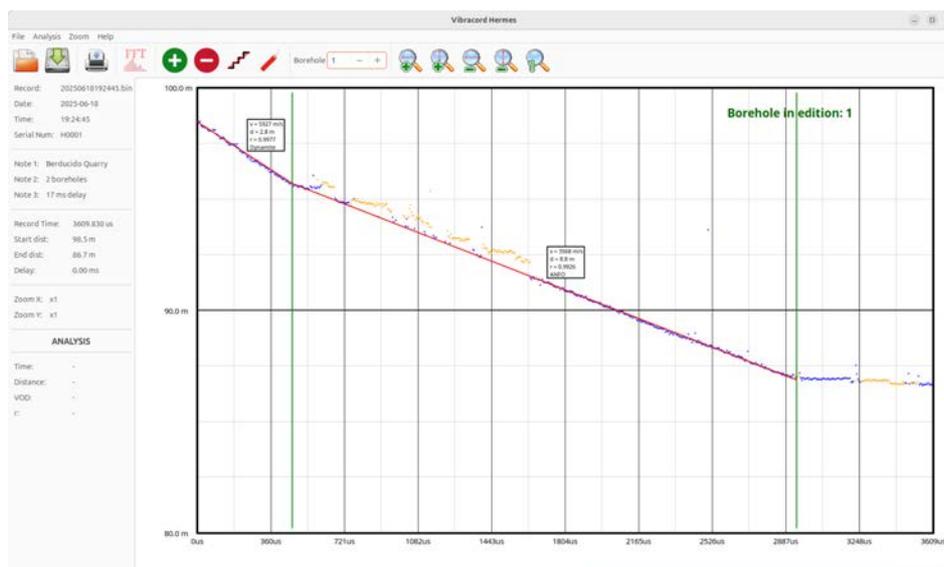
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With the Desktop Data Analysis Software. You can:

- Perform the FTT calculation for the waveform record.
- Analyze the VoD, interacting with the graph.
- Generate and print reports quickly.



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Device	
Screen	1024x600 pixels with capacitive touchscreen
Keyboard	7 keys (Mouse emulation with keys)
Battery	Internal rechargeable NiMh batteries
Dimensions	270x240x190 mm
Weight	4 Kg

4 channels ( 1 channel in VoD mode)	
Number of channels	4 channels ( 1 channel in VoD mode)
Input range	$\pm 20$ mV, $\pm 50$ mV, $\pm 100$ mV, $\pm 200$ mV, $\pm 500$ mV, $\pm 1$ V, $\pm 2$ V, $\pm 5$ V, $\pm 10$ V, $\pm 20$ V.
Input coupling	AC / DC
Input characteristics	Single ended BNC plug type, 1 M $\Omega$ , 16 pF
Resolution	8 bits in memory block mode Up to 12 bits with DSP in streaming mode (sampling time dependent)

Timing			
Maximum sampling rate (block mode)		Equipment with VoD	Equipment without VoD
	1 Channel	1 GS/s (1 ns)	500 MS/s (2 ns)
	2 Channel	500 MS/s (2 ns)	250 MS/s (4 ns)
	3 & 4 Channels	125 MS/s (8 ns)	64 MS/s (16ns)
Maximum sampling rate (streaming mode)		1 Channel: 32MS/s (32ns) 2 Channels: 16MS/s (64ns) 3 & 4 Channels: 8 MS/s (128 ns)	
Shortest timebase		1 ns per sample (with VoD) 2 ns per sample (without VoD)	

Memory	
Block mode	Equipment with VoD: 64 MS Equipment without VoD: 48kS
Streaming mode	Up to 16 seconds per record
Total storage memory	Up to 17 GB multiple record storage capacity

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## Dynamic Performance

Crosstalk	Better than 300:1
Harmonic distortion	< -50 dB at 100 kHz, full-scale input, typical
Bandwidth flatness	(+0.3 dB, -3 dB) from DC to full bandwidth, typical

## Triggering

Trigger modes	Edge, Advanced edge, Window, Interval, Pulse width.
Trigger sensitivity	10 mV p-p. Typical, at full bandwidth
Maximum pretrigger	100 % of the total record length
Maximum post trigger delay	4 billion samples

## Near Field Measurement Mode

Record time	1 to 32 seconds
Sampling rates	16, 31, 62 and 125 kSPS
Measurement ranges	0-200, 0-1000, 0-1500, 0-2000, 0-2500 and 0-3000 mm/s

## Underwater Pressure Measurement Mode

Record time	1 to 32 seconds
Sampling rates	16, 31, 62 and 125 kSPS
Measurement ranges	0-1, 0-2, 0-5, 0-10, 0-20, 0-50, 0-100, 0-200, 0-500 and 0-1000 kPa

## Borehole VoD measurement mode

Principle	Time domain reflectometry
Maximum cable length	100 m + 20 m with cable extension
Cable type	Coaxial RG58 & RG174

## Electrical Parameters

Power supply	Internal NiMH batteries
Fuse (internal)	3 A
Battery type	NiMh - 36 Wh

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