ZETLAB
SIMPLE SOLUTIONS

KIT FOR SEISMIC RESEARCH PERFORMANCE

FUNCTIONS

The Kit for seismic research performance includes: recorder (portable ZETSENSOR system), digital geophones interconnected by trunk cable (and thus forming a measuring line), task-specific software for data recording and analysis.

Kit for seismic research performance is used for seismic surveys in various climatic zones. The geophones are connected by means of GSC-4H (Herma-4) splash-proof connectors.

Light weight of the seismic streamer (3.14 kg per 100 meters of the cable) is attributed to the use of 4-wired telemetrical cable (ø 6.5 mm).

ADVANTAGES

SYNCHRONIZATION
of all the geophones within seismic stramer

MEASUREMENT RESULTS
are transmitted in digital format

SCALABILITY
variable length of the array from 120 m up ti 1 km

PRODUCT VERSION
2 versions available with black and orange cable depending on the particular task

SYSTEM PORTABILITY
compact dimensions enable measurements performance in any environment

RELIABILITY
self-calibration of geophones enables stable performance and high operational reliability

PRINCIPAL CHARACTERISTICS

Measured physical value	vibration velocity
Frequency range	from 1 up to 1000 Hz
Readings	instant
Measured range (depending on sensing element)	0,0006…60 mm/s

TECHNICAL SPECIFICATIONS

Number of channels	from16 up to 24
Data refresh rate (max)	100, 200, 1000, 2500 Hz
Sensor type	digital geophone
Offline recorder	up to 32 Gb
GPS synchronization	yes
Interface connection to PC	USB/Enternet
Data conversion	24 bit ADC
Data transfer interface	CAN 2.0
Exchange rate	300 Kbit/s
Programmable gain	1, 2, 4, 8, 16, 32, 64, 128
Trigger	yes
Data format	Seg-Y
Data processing method*	Refraction, Reflection, MASW

OPERATING SPECIFICATIONS

Power rate	18 – 24 V
Power consumption	10 W
Offline operation time	4 hrs
Length	120 m – 250 m
Operating temperature range	-10 +40 °C
Indicator	LCD, 98x32
Control keys	2 pcs

* Data processing is performed by means of third-party Software

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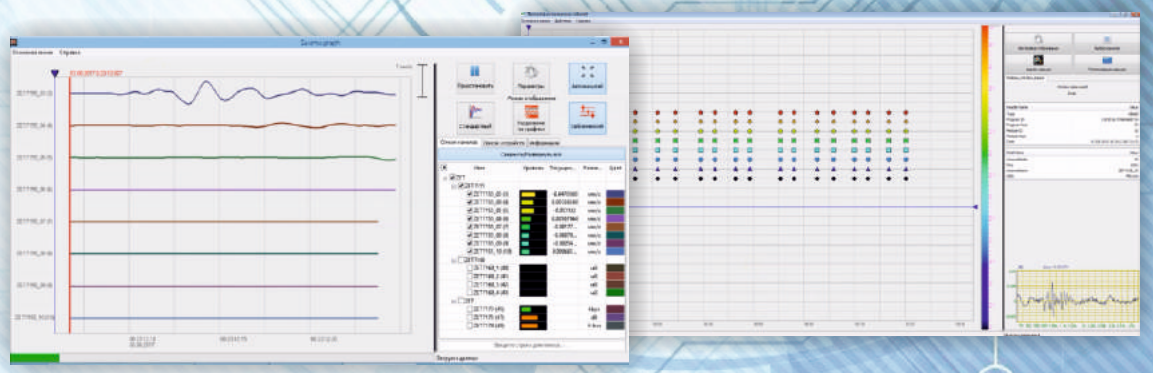
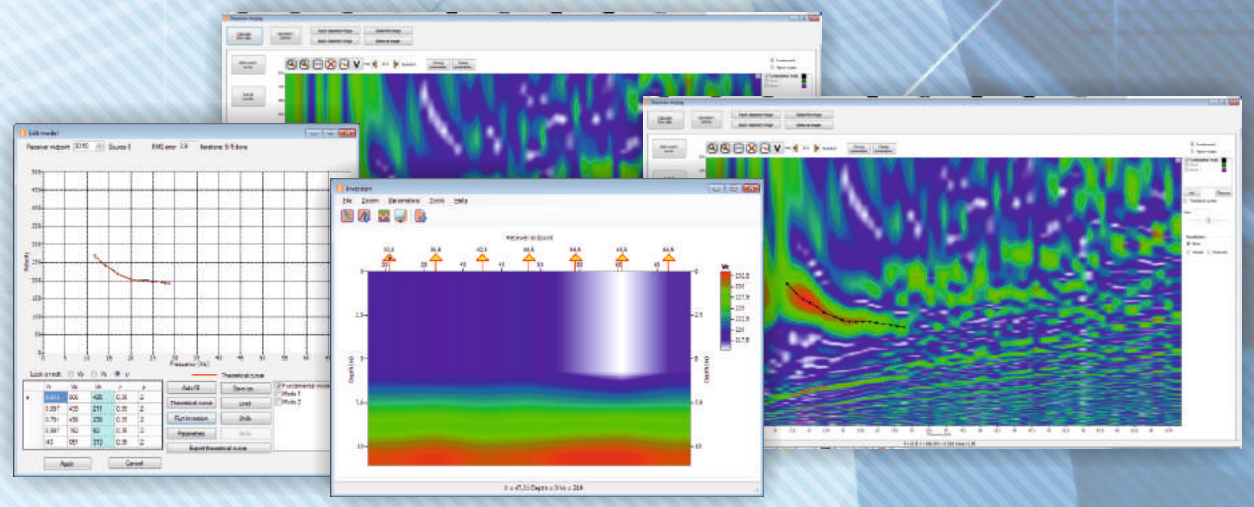
APPLICATION

ZETLAB MASW SOFTWARE
Data processing by means of MASW method

View historical events



RadExPro SOFTWARE
ZETLAB software converts the data obtained into
Seg-Y format for further processing in RadExPro Software



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