

New!

METAL DETECTOR

EM61-MK2

Advancing the state-of-the-practice for applications in the detection of buried metal, the EM61-MK2 Metal Detector offers several new features to enhance system performance:



- **multiple time gates for improved target characterization**
- **earlier time gates for increased sensitivity to smaller targets**
- **a mid-range time gate for 'standard' EM61 data acquisition**
- **computer-based system controller with real-time graphic display**
- **fully integrated GPS (optional)**
- **ergonomically re-designed backpack**



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FEATURES

EM61-MK2

- multiple time gates — three or four; user-selectable — provide a more complete measurement of the response decay rate for improved target characterization
- earlier time gates improve the detection of smaller targets:
 - detection of short decay response not detectable with the 'standard' gate position
 - response amplitude is more than four times that of the 'standard' gate position, for most targets
- a mid-range time gate at the same position as the 'standard' EM61 for comparison with, and continuation of 'standard' EM61 data sets
- computer-based digital recorder with real-time graphic display of data for review and quality control; high capacity data storage (min. 8MB) for extended survey time; increased rate of data collection; and additional input connections for simultaneous collection of EM and GPS data
- immediate GPS compatibility; fully integrated Trimble Ag 114 — with no requirement for a separate GPS receiver console — available as an option
- high-power output modification available for increased depth of exploration
- hand-held attachment available with optional top coil for 'differential' measurements
- improved ergonomics with smaller, lighter backpack and electronic components
- toggle switch for master/slave operation included to accommodate multiple-unit configurations
- compatibility with some components from 'standard' EM61

TECHNICAL SPECIFICATIONS

MEASURED QUANTITY	Four channels of secondary response in mV	ACQUISITION SPEED	Up to 12 records (4 time gates per record) per second
EM SOURCE	Air-cored coil, 1 x 0.5m size	DATA STORAGE	8MB solid state memory for up to 330,000 records; extended memory, optional
CURRENT WAVEFORM	Unipolar rectangular current with 25% duty cycle	POWER SUPPLY	12 V rechargeable battery for 4 h continuous operation
EM SENSORS	Bottom coil: Air-cored coil, 1 x 0.5 m in size, coincident with EM source Top coil: Air-cored coil, 1 x 0.5 m in size 28 cm above main coil	OPERATING WEIGHT & DIMENSIONS	Backpack: 8 kg; 60 x 30 x 20 cm Coil Assembly: 14 kg (23 kg in trailer mode) Bottom: 100 x 50 x 5 cm Top: 100 x 50 x 2 cm
MAXIMUM OUTPUT	10 000 mV	SHIPPING WEIGHT & DIMENSIONS	38 kg (70 kg with trailer option) 108 x 60 x 25 cm (Box 1; harness mode only) 54 x 54 x 52 cm (Box 2; with trailer option)
DYNAMIC RANGE	18 bits		
TIME GATES	Four gates of bottom coil response only, centered at 216, 366, 660 and 1266 μ sec; or, three gates of bottom coil response at 216, 366 and 660 μ sec, with one gate of top coil response at 660 μ sec.		
SYSTEM CONTROLLER	PRO4000 field computer with 486 AMD processor; 16-line LCD display with 24 characters per line.		

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