

## WGMD-60 2D DC Resistivity Imaging System ( 60 electrode )



Internal 200V transmitting power

Internal electrode switcher

Power: 1750W ( 500V\*3.5A)

Function:

- 2D Resistivity Tomography
- 1D VES (resistivity/IP )
- 1D Resistivity/IP Profiling
- Self- potential

USB communication

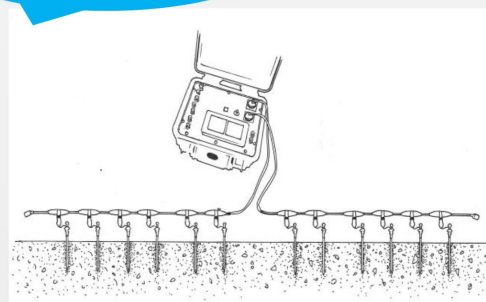
### Applications:

- Metal and nonmetal mineral resources detection
- City geophysical exploration, railway and bridge inspection
- Hydrology and engineering geology as seeking for ground water, inspecting dam base and flood protection levee for incipient faults
- Geothermal prospecting

### Main features:

- Internal transmitting power and electrode switcher, portable and easy operation
- Support rolling along survey
- Wide power range, high precision
- Flexible power/power-off time for the high quality data
- All the operations are visible as data, curve, setting...
- No less 2GB storage for 10 million measured values(voltage, current, apparent resistivity, natural potential)
- Electrode Table improve the working efficiency.
- Automatic self potential, drift and electrode polarization compensation
- Support protections of over-voltage, over-current, AB open circuit and DC inverse connected.

Internal 200V  
Internal switcher



- ❑ Internal transmitting power, no need external power source
- ❑ Internal switcher, no need external switching box



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### Receiving

Voltage channel	$\pm 24\text{V}, \pm 5\% \pm 1\text{LSB}; 24 \text{ bit A/D}$
Voltage sample resolution	$0.01\mu\text{V}$
Input impedance	$\geq 50\text{M}\Omega$
SP compensation	$\pm 10\text{V}$
Current channel	$3.5\text{A}, \pm 0.5\% \pm 1\text{LSB}, 24 \text{ bit A/D}$
Current sample resolution	$0.02\mu\text{V}$
Suppression	$\geq 80\text{dB}$

### Transmitting

Max Tx power	1750W
Max Tx voltage	$\pm 500\text{V}$
Max Tx current	$\pm 3.5\text{A}$
Tx wave	+on, off, -on, off ; bipolar

### Internal Switching

Switching No.	60 channels
Isolation	$\geq 500\text{M}\Omega$
Max voltage	500VDC
Max current	2.5 A DC

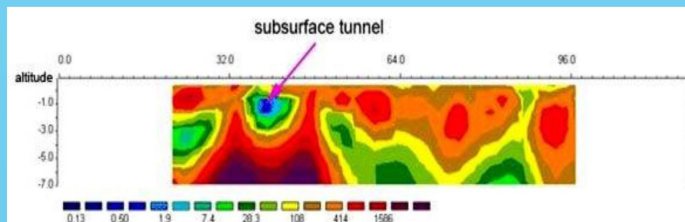
### Internal transmitting power (support external power also)

Tx power	50v, 100v, 150v, 200v for option
Tx current	$\leq 300\text{mA}$

### Other

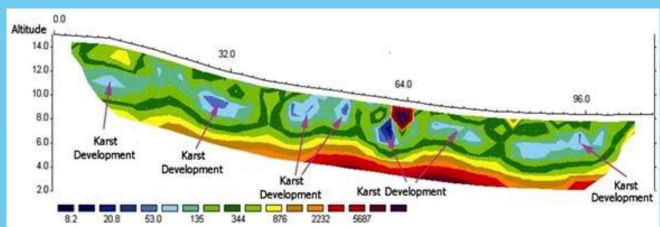
Display	160 * 160 dot matrix LCD, backlight
Storage	$\geq 2\text{GB}$
Internal power	internal 48v lithium battery for 200v transmitting power, rechargeable
Interface	A/B/M/N, DC power input, charge, USB
Dimension	485mm*392mm*192mm
Weight	$\leq 12.3\text{kg}$
Working temperature	$-10^{\circ}\text{C} \sim +50^{\circ}\text{C}, 95\% \text{RH}$
Storage temperature	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

## CASE STUDY



▲ 2D Resistivity Tomography Survey for Subsurface Tunnel Detection

▲ 2D Resistivity Tomography Survey for Karst Exploration



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