

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)
- 1D Resistivity Profiling
- Self-potential

USB communication

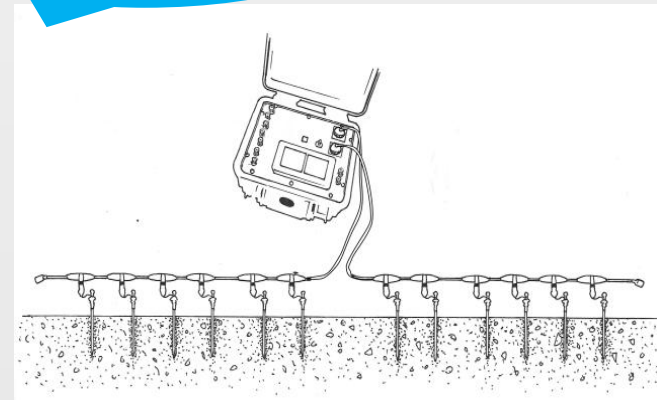
Applications:

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

Transmitting

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

Internal Switching

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

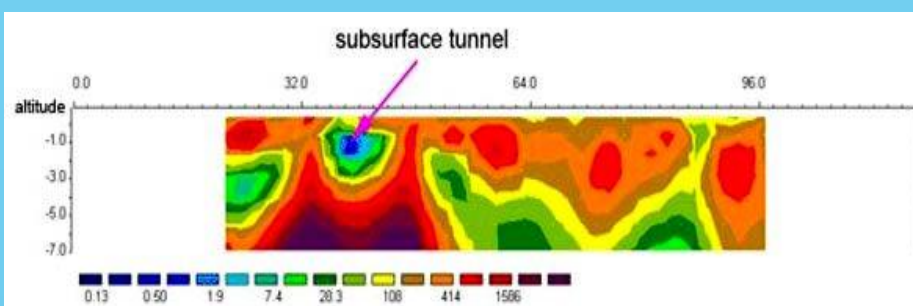
Internal transmitting power
(support external power also)

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

Other

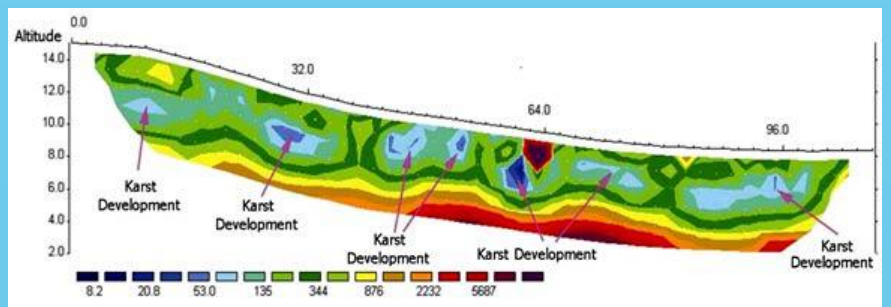
Display	160 * 160 dot matrix LCD, backlight
Storage	$\geq 2GB$
Internal power	internal 48v lithium battery for 200v transmitting power, rechargeable
Interface	A/B/M/N, DC power input, charge, USB
Dimension	485mm*392mm*192mm
Weight	$\leq 12.3kg$
Working temperature	$-10^{\circ}C \sim +50^{\circ}C, 95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

CASE STUDY



▲ 2D Resistivity Tomography Survey for Subsurface Tunnel Detection

▲ 2D Resistivity Tomography Survey for Karst Exploration



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