



## WDJD-4 Resistivity & IP System



All-in-one, multi-functional: the system has the functions of transmitter and receiver at the same time, easy to carry and simple to connect. Super high-power, high anti-interference performance and precision: up to 6600W ( $1100V \times 6A$ ) power, 48Vp-p voltage range ensures to get a good result in an area with high resistance. Automatically achieving compensation of self-potential, drift and electrode polarization, up to  $\pm 10V$ . All parameter and data are under power-failure protection; and thus data will not be lost even though the system shuts down accidentally.

## Specifications

### Receiver

- Voltage channel  $\pm 24V, \pm 0.4\% \pm 1LSB$ , 24 bit A/D
- Input impedance  $\geq 50M\Omega$
- Apparent polarizability precision  $\pm 1\% \pm 1LSB$
- SP compensation range  $\pm 10V$
- Current channel  $6 A, \pm 0.4\% \pm 1LSB$ , 24 bit A/D
- Suppression  $\geq 80dB$  for 50Hz industrial frequency

### Transmitter

- Max. transmitting power 6600W
- Max. voltage range  $\pm 1100V$  (2200Vp-p)
- Max. current  $\pm 6A$  (12Ap-p)
- Pulse width 1~60s, duty ratio 1:1, bipolar



## Specifications

### WDZJ-4 Multiplex Electrode Switcher

- Max. electrode be connected 60 and 120 (optional)
- Insulation impedance  $\geq 500M\Omega$
- Max. working voltage DC 500V
- Max. working current DC 2.5A
- Power supply Internal 7.4V 4AH rechargeable lithium battery
- Working temperature  $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$



## Recommended measuring sets

Functions	Mainframe	Wire/Cable	Electrode
1D Res Sounding	WDJD-4	Twist pair wire	Iron electrode
1D IP Sounding	WDJD-4	Twist pair wire	Iron electrode + solid electrode
2D Res Imaging	WDJD-4 + WDZJ-4	Multi-electrode cable	Electrode with clip
	WDJD-4	Res cable	Electrode with clip
2D/3D Res Imaging 2D IP Imaging	WDJD-4	Res & IP cable	Electrode with clip + solid electrode

## Applications

- Groundwater prospecting
- Environmental studies
- Monitoring of dams and dikes
- Mineral exploration
- Archaeology investigation
- Geotechnical investigation
- Pollution monitoring
- Detecting of cavities and buried objects

