艾都勘探 · 铸造典范

Aidu Exploration and Foundry Model

上海艾都慧测智能科技有限公司

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扫码关注公众号

艾都慧测 / Aidu inteligent

艾都探矿及物探仪器产品画册

Aidu Mineral Exploration and Geophysical Exploration Product Catalog



The development course
发展历程

1973年
研制出国内的短导线D75电法仪
In 1973, the D75 electrical instrument for short conductor was developed

1977年
研制出航空质子磁力仪 / In 1977, an airborne proton magnetometer was developed

1981年
研制出国内电阻率DW83电法仪
In 1981, DW83 electrical instrument was developed

1988年
研发出多功能大功率电法仪 / In 1988, developed a multi-functional high-powerelectrical instrument

2001年
研发出NEP系列天然电场物探仪
In 2001, we developed NEP series natural electric field geophysical instrument

2005年
完成中国科学院地质与地球物理研究所委托“高密度电法仪”项目 / In 2005, we helped the Institute of Geology and Geophysics, Chinese Academy of Sciences, to complete the "high density electrical instrument" project

2011年
完成中国科学院地质与地球物理研究所委托“可控源大地音频电磁仪（CSAMT）”项目 / In 2011, we helped the Institute of Geology and Geophysics, Chinese Academy of Sciences, to complete the CSAMT project

2013年
获得国家科技部创新基金支持，通过上海高新技术成果转化认定 / In 2013, we were supported by the innovation fund of the Ministry of science and technology of the people's Republic of China

2017年
研发出手机找水仪、物探仪，支持安卓系统二维/三维自动成图
In 2017, we developed mobile phone water detector and geophysical detector to support 2D and 3D automatic mapping of Android system

2018年
自主研发16通道系列产品，解决天然电场场源变化问题，简单、高效、精准 / In 2018, we independently developed 16 channel series products to solve the problem of field source change of natural electric field, which is simple, efficient and accurate

2021年
研发云平台大数据自动分析功能的找水仪、物探仪系列产品，航空物探、地震超前预报系统等 / In 2021, we developed water detector and geophysical instrument series products with cloud platform big data automatic analysis function, aviation geophysical exploration and earthquake prediction system

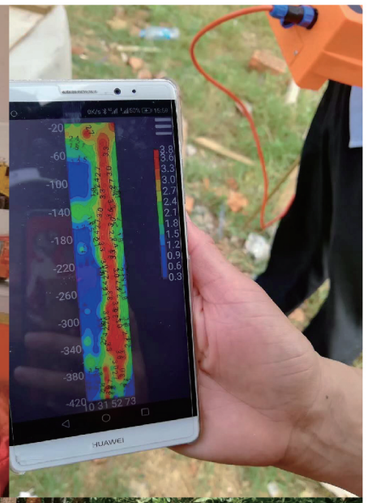
2022年
公司更名为上海艾都慧测智能科技有限公司，业务扩张
In 2018, we independently developed 16 channel series products to solve the problem of field source change of natural electric field, which is simple, efficient and accurate

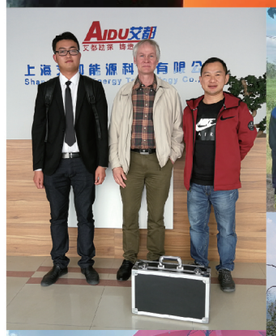
2023年
AI自动分析功能上线，助力地质勘测进入智能化新时代。并推出快速版找水仪，大地电磁电导率仪，高精度三分量磁力仪等
The AI automatic analysis function has been launched, helping geological surveying enter a new era of intelligence. And launched a fast version of water detector, magnetotelluric conductivity meter, high-precision three component magnetometer, etc





















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公司介绍
Company Profile

公司始终坚持在资源勘查、灾害检测等物探领域的仪器技术研发、生产和销售服务，拥有50多年研发历史，技术不断升级迭代，产品种类齐全，目前已发展成找水、探矿、应急、考古和环保五个领域的应用事业部，多次获得国家科技部、上海市科委的科技创新基金支持。始终坚持“唯专注、故专业，唯先行、故领先”的精神，以“精准、高效”为研发设计目标，始终保持行业先进水平。

Our company has always adhered to the research and development, production, and sales services of instrument technology in the fields of resource exploration, disaster detection, and other geophysical exploration. With a history of 50 years of research and development, the technology has been continuously upgraded and iterated, and the product range is complete. Currently, it has developed into an application business unit in five fields: water exploration, mining, emergency, archaeology, and environmental protection. It has received multiple support from the Science and Technology Innovation Fund of the Ministry of Science and Technology of China and the Shanghai Municipal Science and Technology Commission. We always adhere to the spirit of "focusing only, being professional, leading first, and therefore leading", with "precision and efficiency" as our research and development design goals, and always maintain the advanced level in the industry.

企业资质
Qualifications

获得“高新技术”企业、“专精特新”企业、科技型中小企业技术创新基金立项、IS09001:2015质量管理体系认证、多项自主知识产权。

High-tech enterprise 、specialized and special new enterprise SO9001:2015 Quality management system certification, Multiple independent intellectual property rights.


BST A RELIABLE TESTING FOR TRUST

Certificate of Compliance

Certificate NO. : SHBST1803086030001-3YEC-1

Applicant : SHANGHAI AIDU ENERGY TECHNOLOGY CO., LTD.
No. 800, Chenglian Road, Minhang District, Shanghai, China

Manufacturer : SHANGHAI AIDU ENERGY TECHNOLOGY CO., LTD.
No. 800, Chenglian Road, Minhang District, Shanghai, China

Product Name : NATURAL ELECTRIC FIELD GEOPHYSICAL INSTRUMENT

Trade Mark : Aidu

Main Test Model : ADMT-300S

Additional Model : ADMT-100S, ADMT-200S, ADMT-400S, ADMT-600S, ADMT-800S, ADMT-1000S, ADMT-2000S, ADMT-3000S, ADMT-400S-8D, ADMT-600S-8D, ADMT-800S-16D, ADMT-1000S-16D, ADMT-1200S-16D, ADMT-2000S, ADMT-600A, ADMT-800A, ADMT-1200A, ADMT-2000A, ADMT-600A-8D, ADMT-800A-8D, ADMT-1200A-16D, ADMT-360D, ADMT-560D, ADMT-36K, ADMT-60K, ADMT-60K-8D

Test Standard : EN61326-1:2013
EN61000-3-2:2014
EN61000-3-3:2013

As shown in the Test Report No. : SHBST1803086030001-3YER-1.

The EUT described above has been tested by us with the listed standards and found in compliance with the council EMC directive 2014/30/EU. It is possible to use CE marking to demonstrate the compliance with this EMC Directive.
The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production.

Christina Deng
Manager
Mar. 20, 2018

Shenzhen BST Technology Co.,Ltd.
Add: Building No.2-3/4, Zhihong Industrial Park, Dawanbuan Road, Nanlou,Nanshan District,Shenzhen,Guangdong, China. Certificate Search: http://www.bst-sz.com, Tel:400-882-0628, 8009900305, E-mail:christina@bst-lab.com


实用新型专利证书


实用新型专利证书


实用新型专利证书


实用新型专利证书

实用新型专利证书

发明专利证书

实用新型专利证书

实用新型专利证书







MT电磁勘探金箍棒pro

Golden Rod electromagnetic geophysical detector



MT电磁勘探金箍棒pro是一款高度集成MT电磁物探仪，将数据采集、TT电磁传感器和MN电极高度集成在一根直径7cm的碳纤维管内，两头配有电池及无线通信系统，极像传说中金箍棒而得名。强化了100米内和1600米范围测量精度，并且没有任何一根连线，实现全无线操作。通过手机、平板电脑和专控主机来操控。TT/MN可快切换测量、50多年迭代研发封装高性能数据采集模块和数字滤波智能算法，抗干扰性强、数据精准、稳定可靠，并且深度可调，现场快速绘制二维、三维和曲线效果图分析结果，适用于多种应用场景，广泛用于找矿、找水和地热温泉等资源勘查。

Aidu Golden Rod is a highly integrated MT electromagnetic geophysical instrument that integrates data acquisition, TT electromagnetic sensor, and MN electrode height into a 7cm diameter Carbon fiber tube, equipped with batteries and wireless communication system at both ends, named after the legendary Golden Hoop. Enhanced measurement accuracy within 100 meters and 1600 meters, without any connecting wires, achieving full wireless operation. Control through mobile phones, tablets, and dedicated consoles. TT/MN can quickly switch measurements, with over 50 years of iterative development and packaging of high-performance data acquisition modules and digital filtering intelligent algorithms. It has strong anti-interference ability, accurate data, stability and reliability, and adjustable depth. It can quickly draw two-dimensional, three-dimensional, and curve rendering analysis results on site, suitable for various application scenarios, and is widely used in resource exploration such as mineral exploration, water exploration, and geothermal hot springs.

主要型号和技术参数 / MODELS AND TECHNICAL PARAMETERS

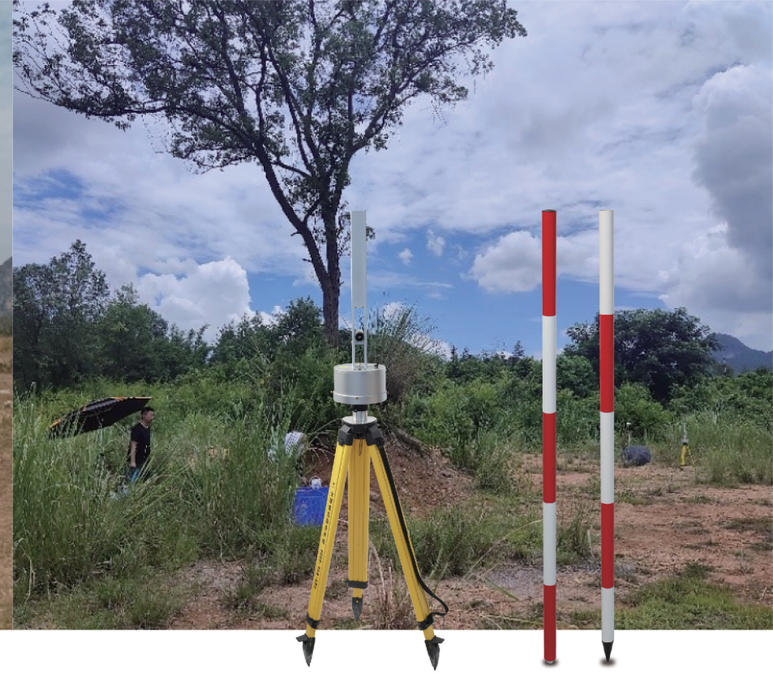
型号 model / 参数 parameter	ADMT-1G	ADMT-1GT2	ADMT-1GT3	ADMT-1600WT4	ADMT-1600WT5
最大深度 Max Depth	100m			1600m	
深度间隔 Scan Interval	2/4(m)			5/10/20(m)	
电池功耗 Battery	7.4V2600mAH锂电池，功耗约140mA 7.4V 2600mAH lithium battery, Power consumption approx. 140mA				
连接方式 Connection	WIFI				
MN电极 MN Electrodes	100*95*30mm L形合金电极4只 Four L-shaped alloy electrodes, each with a size of 100*95*30mm				
主要功能 Core Features	可选起止深度范围、深度间隔可设置、2D/3D自动绘图、AI自动分析、在线离线测量方式 selectable depth sections, variety in scan interval options, auto 2D/3D imaging, AI expert interpretation of image, on/offline operation				
TT电磁感应线圈 TT Coil（mm/w）	——	300/0.2	450/0.3	450/8	450/12
TT电磁感应铁芯 TT Iron Core（KmH/m）	——	120	200	300	400
工作环境 Ground Conditions	能插地面 soft ground only	任何地面 all grounds			
频率范围 Freq. Range(HZ)	1-8K				
测量模式 Sensing Mode	MN	MN/TT			
分辨率 Discrim.	0.1mV±5%			0.01mV±1%	
采样时间 Acquisition Time(S)	14-350			14-2240	
主机重量 Main Unit Weight(kg)	0.8	1.9	2.6	3.3	4
主机尺寸 Main Unit Size（mm）	340*71	650*71	790*71	940*71	1090*71
运输重量 Shipping Weight (kg)	4.5	6	7.5	8.5	9.5
运输尺寸 Shipping Size(mm)	540*225*195	785*225*195	940*225*195	1090*225*195	1240*225*195

AMC-10型
无线高精度三分量磁力仪

AMC-10 wireless high-precision
three component magnetometer







AMC-10型无线高精度三分量磁力仪是我公司联合上海海事大学等多个机构研制而成，内置高精度磁通门传感器和姿态传感器，不仅可测量X、Y、Z三轴向磁场数据，而且具有倾斜状态下测量地磁水平分量和垂直分量的能力，可省去人工调整水平的繁琐操作。X轴方位角可以实时数字显示，转角精准达到0.01°。测量软件植入磁场自动修正算法，通过出厂时测试调整的50几个修正系数在现场测量时自动修正直显测量结果。仪器操控主机与仪器数据采集探头完全无线连接，在操作过程中省略连线干扰，便捷高效。仪器操控主机直接显示测量结果、曲线和等值线彩图，数据与PC电脑无线同步。该仪器可直接测量X、Y、Z三分量磁场数据和X∠、Y∠、Az角度数据，并且能实时计算ΔZ、ΔX、ΔY、ΔH、ΔT数据，利于现场判断和后期数据分析。

The AMC-10 wireless high-precision three-component magnetometer is developed by our company in collaboration with multiple institutions such as Shanghai Maritime University. It is equipped with high-precision fluxgate sensors and attitude sensors. It can not only measure X-axis, Y-axis, and Z-axis magnetic field data, but also has the ability to measure the horizontal and vertical components of geomagnetism in an inclined state, eliminating the tedious operation of manually adjusting the level. The X-axis azimuth can be displayed digitally in real-time, with an accurate rotation angle of 0.01 °. The measurement software is embedded with a magnetic field automatic correction algorithm, which automatically corrects over 50 correction coefficients adjusted through factory testing during on-site measurement and directly displays the measurement results. The instrument control host is completely wirelessly connected to the instrument data acquisition probe, eliminating wiring interference during operation, making it convenient and efficient. The instrument control host directly displays measurement results, curves, and contour color maps, and the data is wirelessly synchronized with the PC computer. This instrument can directly measure the three component magnetic field data of X, Y, and Z, as well as the angle data of X ∠, Y ∠, and Az, and can calculate in real-time Δ Z Δ X Δ Y Δ H Δ T data is beneficial for on-site judgment and later data analysis.

探测轴向/Detection Axis	地磁场X\Y\Z轴 / Geomagnetic field X Y Z axis
量程/Range	±200000nT
线性度/Linearity	≤±0.005%
温漂/Temperature drift	±0.4nT/℃
水平角分辨率/Horizontal angle resolution	0.01°
倾角/dip angle	手动调整（可增加陀螺仪自动读取）
	Manual adjustment (can increase gyroscope automatic reading)
数据采集频率 Data collection frequency	自动1次/秒，或手动控制
	Automatic once/second, or manual control
连接方式/Connection method	WiFi、串口 / WiFi, serial port
显示方式/Display	7或10寸安卓系统触摸屏 / 7 or 10 inch Android touch screen)
整机功耗/Overall Power Consumption	主机(Host): 450mA，操控主机(Control host): 600mA
重量/weight	主机(Host): 4.2kg，操控主机(Control host): 0.99kg
转向差/Poor steering	Z≤±10nT、T≤±20nT
分辨率/Resolution	0.5nT
重复性/repeatability	< 0.1nt
开机稳定性/Power on stability	< 1分钟(< 1min)
水平角范围/Horizontal angle range	0-360°+自定义(custom)
测量数据/Measurements	差值或绝对值 / Difference or absolute value
测量模式/Measurement mode	手动/自动(manual/automatic)
数据储存量/Data storage capacity	16G，可扩展至128G / 16G, scalable to 128G
其他/other	直接自动成彩图、曲线图等
	Directly and automatically generate color maps, curves, etc
电源/Power supply	主机:DC12V/6800mA(可外接充电宝)；操控主机:DC7.4V/6000mA
	Host: DC12V/6800mA (can be connected to an external power bank); Control host: DC7.4V/6000mA

AMC-7型三分量磁力仪

AMC-7 three-component fluxgate magnetometer



AMC-7型三分量磁力仪的探头采用高性能坡莫合金铁芯激励线圈的三颗高性能传感器机械水平悬挂，可测量X、Y、Z三个方向的磁场及总场，具有分辨率高、精度高、性能稳定、温漂小等特点。

The probe of the AMC-7 three-component magnetometer adopts three high-performance sensors with high-performance permalloy iron core excitation coils mechanically suspended horizontally, which can measure the magnetic field and total field in X, Y, and Z directions. It has the characteristics of high resolution, high accuracy, stable performance, and small temperature drift.

探测轴向/Detection Axis	地磁场X\Y\Z轴 Geomagnetic field X Y Z axis	转向差/Poor steering	Z≤±30nT、T≤±50nT
量程/Range	±100000nT	分辨率/Display	1nT
线性度/Linearity	≤±0.1%	重复性/Repeatability	< 5nt
温漂/Temperature drift	±1nT/℃	开机稳定性 Power on stability	< 3分钟/ < 3min
倾角/Dip angle	手动调整 Manual adjustment	测量数据/Measurements	差值或绝对值 Difference or absolute value
数据采集频率/ Data collection frequency	自动1次/秒，或手动控制 Automatic once/second, or manual control	其他/other	可连接手机显示曲线、等值线彩图等 Can be connected to mobile phones to display curves, contour color maps, etc
连接方式/Connection method	蓝牙、串口/Bluetooth, serial port	测量模式/Mode	手动/自动 manual/automatic
显示方式/Display	7寸高亮触摸屏 7-inch high brightness touch screen	数据存储量 Data storage capacity	1.6亿数据点，16G 160 million data points, 16G
重量/Weight	主机：2.15kg 操控主机：1.65kg Host: 2.15kg Control Host:1.65kg	功耗/Consumption	主机：280mA 操控主机：350mA Host: 280mA Control Host: 350mA
		电源/Power supply	DC7.4V 5200mA锂电池(lithium battery)

AMC-6型单分量磁力仪

AMC-6 Single Component Magnetometer





AMC-6型磁通门探矿仪是上海艾都与上海海事大学合作的杰作，采用高导磁率坡莫合金经特殊的热处理后的磁芯，纯手工绕制的高性能传感器，在交变激励信号的磁化作用下，磁芯的导磁特性发生周期性饱和与非饱和变化，使围绕在磁芯上的感应线圈感应输出与外磁场成正比的信号，通过特制高性能的电路转化磁场强度变化，分辨率达到0.1-1nT，专业款转向差高达±20nT，对微弱信号变化量的反应能力相当高，具有分辨率高、精度高、性能稳定、无温漂等特点。

The AMC-6 fluxgate exploration instrument is a masterpiece created by Shanghai Aidu and Shanghai Maritime University. It uses a high permeability permalloy core after special heat treatment, and a high-performance sensor made entirely by hand. Under the magnetization of alternating excitation signals, the magnetic conductivity of the core undergoes periodic saturation and unsaturated changes, causing the induction coil around the core to produce a signal proportional to the external magnetic field, By using a specially designed high-performance circuit to convert magnetic field intensity changes, the resolution can reach 0.1-1nT, and the professional version has a steering difference of up to ± 20nT. It has a high response ability to weak signal changes, and has characteristics such as high resolution, high accuracy, stable performance, and no temperature drift.

探测轴向/Detection Axis	地磁场垂直分量Z Vertical component Z of geomagnetic field	转向差/Poor steering	±50nT
量程/Range	±100000nT	分辨率/Display	1nT
线性度/Linearity	≤±0.1%	重复性/Repeatability	< 5nt
温漂/Temperature drift	±1nT/℃	开机稳定性/Power on stability	< 3分钟/ < 3min
倾角/Dip angle	自动垂直，硅油阻尼 Automatic vertical, silicone oil damping	测量数据/Measurements	差值或绝对值 Difference or absolute value
数据采集频率/ Data collection frequency	自动1次/秒，或手动控制 Automatic once/second, or manual control	其他/other	可连接手机显示曲线、等值线彩图等 Can be connected to mobile phones to display curves, contour color maps, etc
连接方式/Connection method	蓝牙、串口/Bluetooth, serial port	测量模式/Mode	手动/自动 manual/automatic
显示方式/Display	7寸高亮触摸屏 7-inch high brightness touch screen	数据存储量/ Data storage capacity	1.6亿数据点，16G 160 million data points, 16G
重量/Weight	主机 2.15kg 探头1.65kg 操控主机1.65kg Host: 2.15kg Probe:1.65kg Control Host:1.65kg	功耗/Consumption	主机：160mA 操控主机：350mA Host: 160mA Control Host: 350mA
		电源/Power supply	DC7.4V 5200mA锂电池/lithium battery

ACZ-8型质子磁力探矿仪

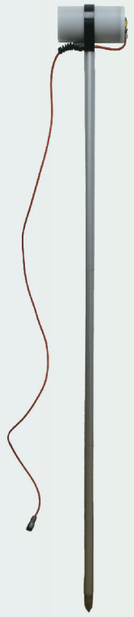
ACZ-8 Proton Magnetic Prospecting Instrument

ACZ-8型宽频跟踪地扰质子磁力仪是我公司在参照国内外先进磁力仪基础上，经过多项发明改进研制而成，已经申请专利号（ZL201520500095.3、ZL201520739021.5），配合进口高性能器件精制放大电路，测量精度大大提升，完全可以与进口产品一样的精度，同时仪器的真正量程达到20,000 nT～100,000nT全球无需特别调整，分辨率达到0.1nt，还具有大存储容量、高分辨率和灵活性可广泛用作便携式、移动式和基站式磁力仪。

The ACZ-8 wideband tracking ground disturbance proton magnetometer is developed by our company based on advanced magnetometers at home and abroad, after multiple inventions and improvements. We have applied for patent numbers (ZL20152050500095.3, ZL201520739021.5), and combined with imported high-performance devices to refine the amplification circuit, the measurement accuracy is greatly improved, which can completely achieve the same accuracy as imported products, At the same time, the true range of the instrument reaches 20000 nT to 100000 nT worldwide without special adjustment, with a resolution of 0.1 nt. It also has large storage capacity, high resolution, and flexibility, and can be widely used as portable, mobile, and base station magnetometers.



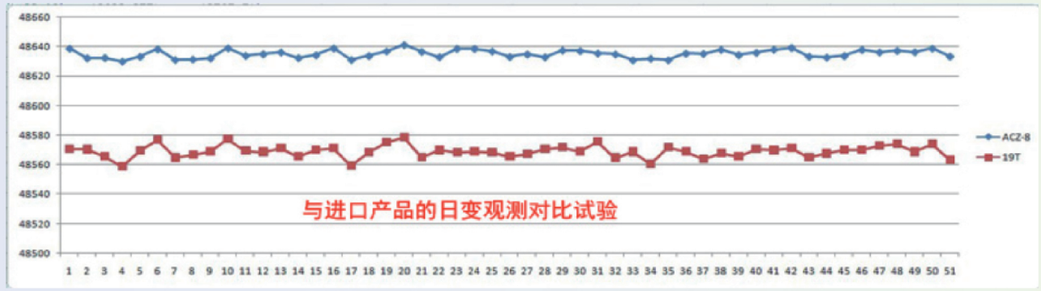
▲ 主机



▲ 探棒、探头

主要参数 / Parameters

测量范围/Measuring range	20000 nT～100000 nT
测量精度/Measurement accuracy	± 1nT
分辨率/Resolution	± 0.1nT
允许梯度/Allow gradient	≤8,000 nT/m
基站测量间隔	6～60 秒，可设定
Base station measurement interval	6-60 seconds, configurable
GPS 定位精度 GPS positioning accuracy	< 2 .5m
存贮数据	日变方式：不少于45小时(在典型读数间隔为6-60秒时)　点测方式：10万个测点读数
Stored data	Daily variation mode: no less than 45 hours (when the typical reading interval is 6-60 seconds); Point measurement method: 100000 readings from measuring points.
工作温度/Operation temperature	-10℃～+50℃
液晶显示	240×240 图形液晶，带背光
Display	240×240 graphic LCD with backlight
通讯接口/Interface	USB
电源	DC14.4V 5200mA 内置可充电锂电池可待机连续工作 20 小时
Power supply	DC14.4V 5200mA built-in rechargeable lithium battery, capable of standby and continuous operation for 20 hours
主机	外形尺寸：270mm×110mm×223mm　重量：2.5Kg
Host	External dimension: 270mm×110mm×223mm　Weight: 2.5Kg
探头	外形尺寸：Φ74×150mm　重量：0.8Kg
Probe	External dimension: Φ74×150mm　Weight: 0.8Kg



ADMT-EH系列电导率仪/ADMT-EH series conductivity meter

深度可选　实时自动成图分析　智能简便　完全无线连接　数据共享　操作简单

最大8000米勘探深度，精确稳定可靠抗干扰能力强

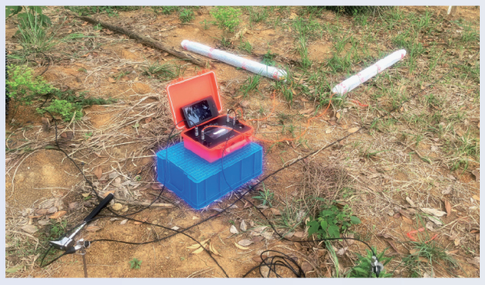
Depth selectable　Real time automatic mapping analysis　Intelligent and Easy　Fully wireless connection

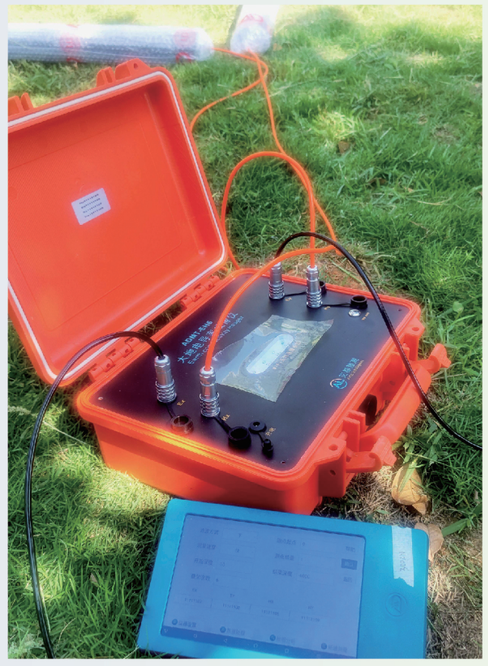
Simple operation　Data sharing　Maximum exploration depth of 8000 meters, precise, stable, reliable, and strong anti-interference ability

大地电磁电导率仪是一种高效、精确的测量工具，可以应用于矿产勘探、地质灾害预测、水文地质勘探、环境监测等领域。每台标配两道电磁和电场测量通道，WiFi无线连接同时测量，最大勘探深度达到8000米，仪器可直显Ex、Ey、Hx、Hy视电阻率数据，自动绘曲线图和等值线图，在最大深度范围内，10米深度间隔选，系统可在最大深度范围内分段设置勘探深度，满足对不同深度和不同深度段的要求。

The magnetotelluric conductivity meter is an efficient and accurate measurement tool that can be applied in fields such as mineral exploration, geological disaster prediction, hydrogeological exploration, and environmental monitoring. Each device is equipped with two electromagnetic and electric field measurement channels as standard, with WiFi wireless connection for simultaneous measurement. The maximum exploration depth can reach 8000 meters. The instrument can directly display Ex, Ey, Hx, Hy apparent resistivity data, automatically draw curve and contour maps, and select at a depth interval of 10 meters within the maximum depth range, The system allows for segmenting the exploration depth within the maximum depth range, meeting the requirements for different depths and depth intervals.







操控主机主要参数/Main parameters of the control host	
操作显示/Operating display	7寸IP高亮触摸屏、横竖屏自动切换
	7-inch IP highlight touch screen, automatic switching between horizontal and vertical screens
分辨率/Resolution	800*1280
连接方式/Connection method	多功能磁吸接头（含充电、USB、信号输入）、Wifi、蓝牙
	Multifunctional magnetic connector (including charging, USB, signal input), WiFi, Bluetooth
主要功能/Main function	深度可选、实时2D/3D绘图
	Depth selectable, real-time 2D/3D drawing
操作系统/Operating system	Android 8.1
CPU	RK3288 四核A17
	RK3288 Quad Core A17
内存/Memory	2GB
存储器/Storage	16GB
电池/battery	8.4V/6000mAH（可外接手机充电宝）
	8.4V/6000mAH (can be connected to an external mobile phone power bank)
功耗/Consumption	6W
充电/Charge	5V1A，通用大部分手机充电器
	5V1A, universal most mobile phone chargers
外形尺寸/Overall dimensions	238*139*53mm
重量/Weight	<1 kg
工作环境/Work environment	-20℃～+60℃，95%RH

参数 parameter / 型号 model	EH1	EH2	EH4	EH6	EH8
最大深度/Maximum depth(m)	≤1000	≤2000	≤4000	≤6000	≤8000
可选深度/Optional depth(m)	10~1000	10~2000	10~4000	10~6000	10~8000
通道模式/Channel Mode	MN+TT				
连接方式/Connection method	WiFi				
频率范围/Frequency range	0.001~2000 Hz				
测量精度/Measurement accuracy	1%Fs				
分辨率/Resolution	1uV				
选频滤波 Frequency selective filtering	预设选频和智能选频、模拟＋数值滤波				
	Preset frequency selection and intelligent frequency selection, analog+numerical filtering				
输入阻抗/Impedance	≥1M				
对50Hz工作干扰压制 Suppression of 50Hz working interference	≥60dB				
采样时间/Sample time	540~10800s				
外形尺寸/Overall dimensions	323*275*135mm				
电池/Battery	8.4V/7500mAh				
功耗/Consumption	7.5W				
重量/Weight	约3.5kg				
工作环境/Work environment	-20℃～+60℃，95%RH				

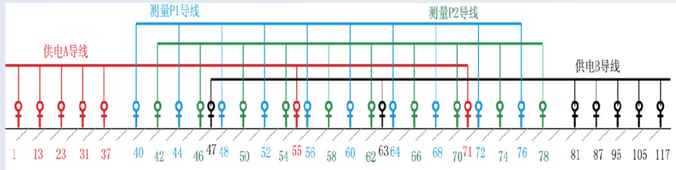
JYT-C1借线遥控高密度扩展系统

JYT-C1 borrowing line remote control high-density expansion system

为促使电阻率/激电测深阵列化，升级传统集中式高密电法仪，我们优化了“电法勘探电极阵列借线遥控器”（发明专利ZL.201711013579.5，发明人：梁炳和、葛为中)。这种创新电法阵列不必采用多芯电缆，仅借助供电AB导线遥控，改变探测深度，并允许测点非等间距、测线非直线布置，快速完成二维、三维阵列电法勘探。

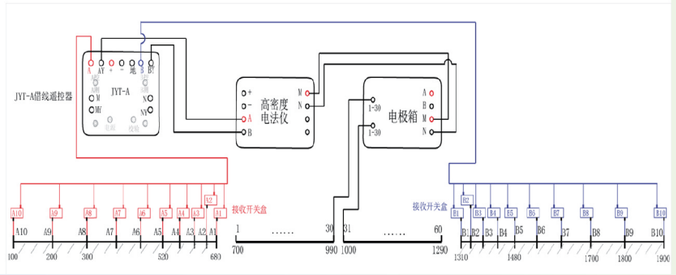
In order to promote the integration of resistivity/induced polarization sounding arrays and upgrade traditional centralized high-density electrical method instruments, we optimized the "Electrical Exploration Electrode Array Wire Borrowing Remote Control" (invention patent ZL.201711013579.5, inventors: Liang Binghe and Ge Weizhong). This innovative electrical array does not require the use of multi-core cables, but only relies on power supply AB wires for remote control, changing the detection depth, and allowing for non equidistant measurement points and non linear arrangement of measurement lines, quickly completing two-dimensional and three-dimensional array electrical exploration.

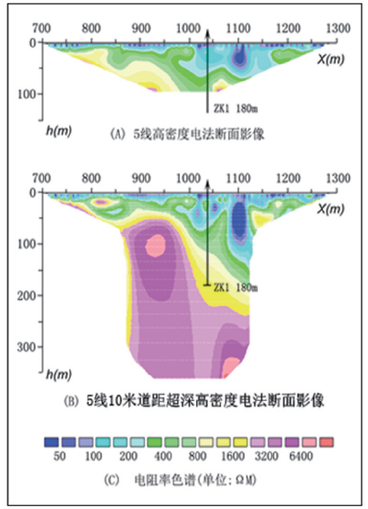




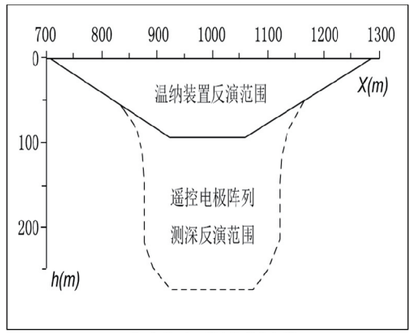
低密度阵列梯度测深布置示意图

超深高密度阵列布置示意图





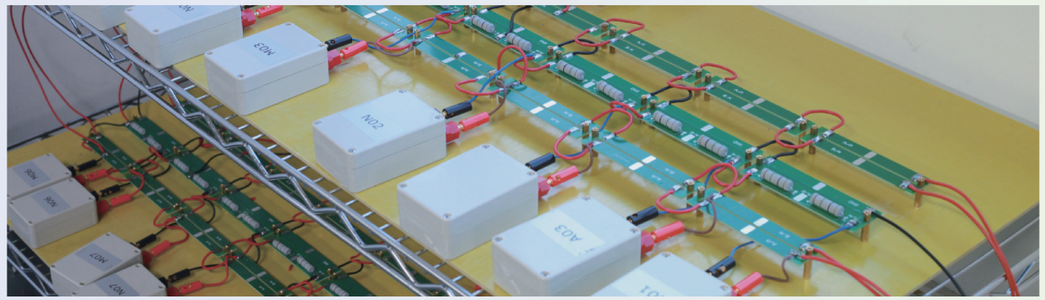
- 高密度60道、道距10m，测线长590m
- 高密度反演深度100m
- **超深高密度**反演深度350m， 最大AB1800m
  深度为高密度3倍 杨兴沫《物探与化探》2016No1

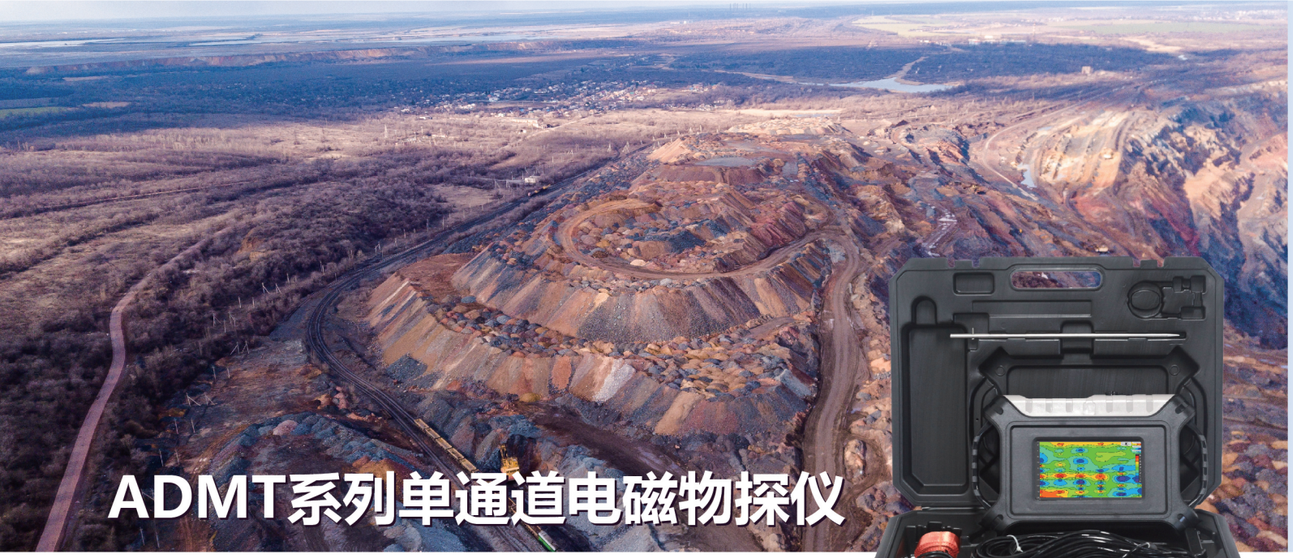


海南省七叉温泉物探5线

目前传统高密度电法勘探，深度受到排列长度的限制，相对较浅。一般在几十米到200米左右，并且排列越长，电缆的长度、电极的重量成倍地增加，野外外业施工困难。使用遥控电极阵列新技术，在高密度电法排列两端外侧延长布置逐稀的A、B供电遥控电极阵列及其导线，扩展排列长度，从而增加加深勘探深度超过200米，达到600-800米，携带轻便、增加三极或四极梯度测深观测，灵活结合数据,专用软件反演。

At present, the depth of traditional high-density electrical exploration is limited by the arrangement length and relatively shallow. Generally, it is around tens of meters to 200 meters, and the longer the arrangement, the length of the cable and the weight of the electrode will increase exponentially, making it difficult for outdoor construction. Using the new technology of remote control electrode array, a sparse A and B power supply remote control electrode array and its wires are arranged on the outer side of both ends of the high-density electrical method arrangement, extending the arrangement length, thereby increasing the depth of exploration by more than 200 meters, reaching 600-800 meters. It is portable and adds three or four pole gradient sounding observations, flexibly combination data with specialized software for inversion.





ADMT系列单通道电磁物探仪

ADMT series single channel electromagnetic geophysical detector

自动成像
Automatic imaging

单通道探矿仪，采用7寸触摸屏，实时成2D、3D图像
Single channel exploration instrument, using a 7-inch touch screen to generate real-time 2D and 3D images

精准稳定
Precise and stable

50年迭代升级的电磁物探仪，精度高、稳定好
A 50 year iterative upgraded electromagnetic geophysical instrument with high accuracy and good stability

三屏互通
Triple screen interoperability

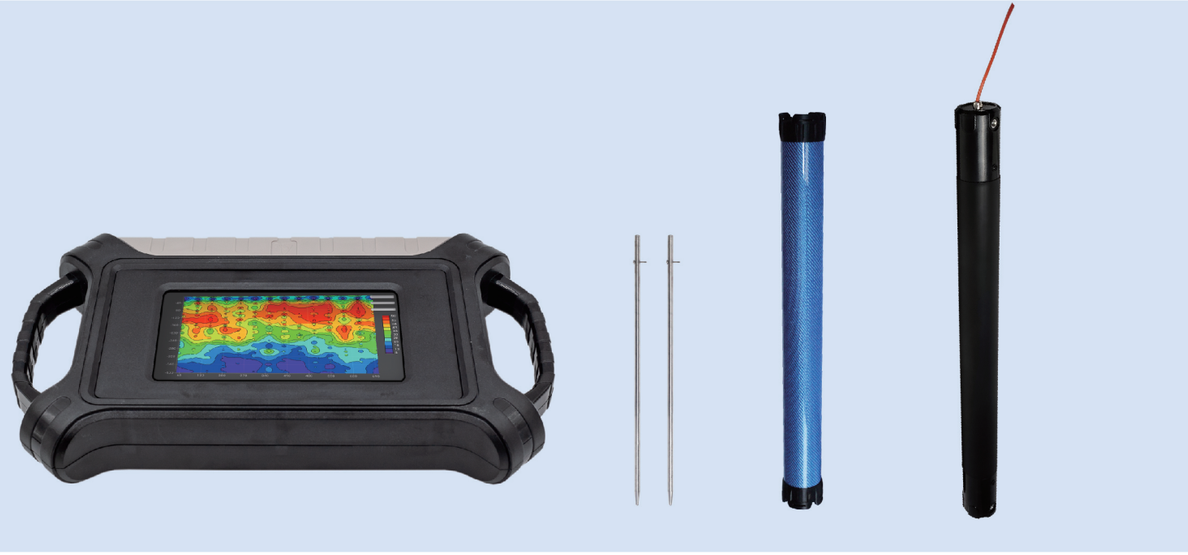
仪器屏、手机屏、电脑屏三屏互通
Interconnection of instrument screen, mobile screen, and computer screen

智能灵活
Intelligent and flexible

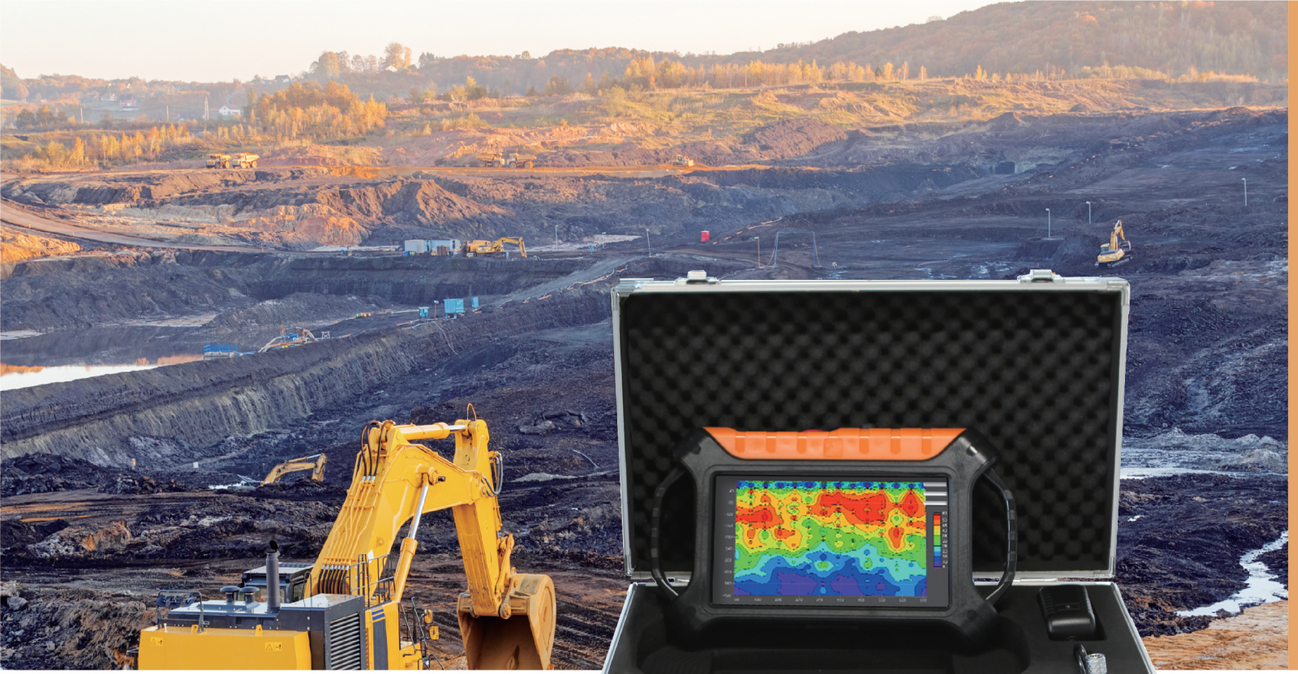
MN模式测量电场、TT模式测量电磁场
MN mode measurement of electric field, TT mode measurement of electromagnetic field

单通道MT电磁法仪简化了MT电法和频率测深法，重新设计的一款轻便高效、智能方便电法物探仪，仪器利用大地电磁场为源，省略传统笨重的供电部分，效率提高10倍以上，深度也提高3-5倍。既可以测量MT电场也可以测量MT电磁场，并且配置 7寸安卓系统触屏可以实时成像，数据和图形在仪器屏、手机屏、电脑屏共享，标配可拆卸聚合物电池、10米测线、MN电极和TT探头测量模式。可选无线探头或金箍棒进行MN或TT测量模式，操作十分方便，广大客户高度认可。

The single channel MT electromagnetic detector simplifies MT electrical method and frequency sounding method, and is redesigned as a lightweight, efficient, intelligent, and convenient electrical geophysical detector. The instrument utilizes the magnetotelluric field as the source, omitting the traditional cumbersome power supply part, improving efficiency by more than 10 times and depth by 3-5 times. It can measure both MT electric field and MT electromagnetic field, and is equipped with a 7-inch Android system touch screen for real-time imaging. Data and graphics are shared on instrument screens, mobile phone screens, and computer screens. It comes standard with detachable polymer batteries, 10 meter measuring lines, MN electrodes, and TT probe measurement modes. The optional wireless probe or golden stirrup can be used for MN or TT measurement mode, which is very convenient to operate and highly recognized by customers.



参数 parameter / 型号 model	ADMT-300AX	ADMT-600AX	ADMT-1200AX	ADMT-3000AX	ADMT-5000AX
最大深度/Maximum depth(m)	≤300	≤600	≤1200	≤3000	≤5000
通道输入 Channel input	1通道MN输入 1 channel MN input				
通道选择/Channel option	1				
可选深度/Adjustable depth	100-300	100-600	100-1200	100-3000	100-5000
深度分层/Layer division	10-100				
连接方式 Connection	串口、Wifi、蓝牙4.0、USB(选配4G通讯) Serial port, WiFi, Bluetooth 4.0, USB (optional 4G communication)				
显示屏 Display	7寸IPS广角178°可视触摸屏 7-inch, IPS wide Angle, 178° visual touch screen				
操作系统 Operating system	安卓6.0.1 运行内存1G 内存8G（可扩展128G） Android6.0.1, RAM 1GB, ROM 8GB (expandable 128GB)				
CPU	ARM Cortex-A7, 8-core CPU, 2.0Hz				
GPU	OpenGL ES 2.0				
主要功能 Main function	深度可选、实时2D/3D绘图、电池可拆卸 Optional depth, real-time 2D/3D imaging, removable battery				
测量模式/Measure mode	MN/TT				
频率范围/Frequency range(HZ)	1-8K		0.001-8K		
选频滤波 Frequency selective	预设选频和智能选频、模拟+数据滤波1-16次叠加可选 Preset frequency selection and intelligent frequency selection, analog + data filtering, 1-16 times stacking is optional				
分辨率/Resolution	0.1mV±2%		0.01mV±1%		
采样时间（秒）/Sampling time (s)	100-360		120-1500		
电池功耗/Battery	700mA/H				
主机重量/Weight	1.6kg				





ADMT系列16通道电磁物探仪

ADMT series 16 channel electromagnetic geophysical detector

自动成像 Automatic imaging

精准稳定 Precise and stable

三屏互通 Triple screen interoperability

智能灵活 Intelligent and flexible

16道高密度MT电磁法仪采用16通道同时输入测量来获取稳定的场源，不仅解决了天然电场随时变化的问题，而且在同一剖面避免多次移动电极造成的误差，解决了单通道仪器重复测量数据剖面不一样的缺点。标配10寸安卓系统触屏实时成像，并且仪器屏、手机屏、电脑屏三屏互通，可选1-14个测量通道，也可选配无线探头或找水金箍棒，可切换MN电极和TT探头测量模式，野外操作方便。

The 16 channel high-density MT electromagnetic method instrument uses 16 channels of simultaneous input measurement to obtain a stable field source, which not only solves the problem of natural electric field changing at any time, but also avoids errors caused by multiple electrode movements in the same profile, solving the problem of repeated measurement data profiles with single channel instruments. The standard 10 inch Android system has a touch screen for real-time imaging, and the instrument screen, mobile phone screen, and computer screen are interconnected. There are 1-14 measurement channels available, as well as wireless probes or water finding golden cudgels. The MN electrode and TT probe measurement modes can be switched, making field operation convenient.

参数 parameter / 型号 model	ADMT-300AX-16D	ADMT-600AX-16D
最大深度/Maximum depth(m)	≤300	≤600
通道输入	16道同时输入，最大电极间距5m	
Channel input	16 channels for simultaneous input, with a maximum electrode spacing of 5m	
通道选择/Channel optional	1-14	
可选深度/Adjustable depth	20/40/60/100/200/300m	60/100/200/300/400/500/600m
深度分层/Layer division	10-100	
连接方式	串口、Wifi、蓝牙4.0、USB(选配4G通讯)	
Connection	Serial port, WiFi, Bluetooth 4.0, USB (optional 4G communication)	
显示屏	10.1寸IPS广角178°可视触摸屏（1024×600）	
Display	10.1 inch IPS wide angle 178 ° visual touch screen (1024 × 600)	
操作系统	安卓6.0.1 运行内存1G 内存8G（可扩展128G）	
Operating system	Android6.0.1, RAM 1GB, ROM 8GB (expandable 128GB)	
CPU	ARM Cortex-A7, 8-core CPU, 2.0Hz	
GPU	OpenGL ES 2.0	
主要功能	深度可选、通道数可选、实时2D/3D绘图、电池可拆卸	
Main function	Depth selectable, number of channels selectable, real-time 2D/3D graphics, battery detachable	
测量模式/Measure mode	MN/TT	
频率范围/Frequency range(HZ)	1-8K	
分辨率/Resolution	0.1mV±2%	
采样时间（秒）/Sampling time (s)	40-3600	
电池功耗/Battery	900mA/H	
主机重量/Weight	2.8kg	



ADMT系列32通道电磁物探仪

ADMT series 32 channel electromagnetic geophysical detector

自动成像 Automatic imaging

精准稳定 Precise and stable

三屏互通 Triple screen interoperability

智能灵活 Intelligent and flexible

32道高密度MT电磁法仪采用32通道同时输入测量，解决了MT场源随时变化的缺陷而获得稳定场源。并且勘探深度达到5000米，突破了传统高密度电法仪的深度限制。并且具备MN电极和TT电磁探头测量模式、1-32个测量通道可选、数据叠加滤波可选，可选配有线探头或无线连接勘探金箍棒数据采集。 标配10寸安卓系统触屏实时成实时智能成2D、3D和曲线图像。并且仪器屏、手机屏、电脑屏三屏互通。

The 32 channel high-density MT electromagnetic method instrument adopts 32 channels for simultaneous input measurement, solving the defect of MT field source changing at any time and obtaining a stable field source. And the exploration depth reached 5000 meters, breaking the depth limit of traditional high-density electrical instruments. And it has MN electrode and TT electromagnetic probe measurement modes, 1 to 32 measurement channels available, data superposition filtering available, and can be equipped with wired probes or wireless connection for exploration gold stirrup data collection. The standard 10 inch Android system has a real-time intelligent touch screen that generates 2D, 3D, and curved image images, and the instrument screen, mobile screen, and computer screen are interconnected.



参数 parameter / 型号 model	ADMT-300AX-32D	ADMT-600AX-32D	ADMT-1200AX-32D	ADMT-3000AX-32D	ADMT-5000AX-32D
最大深度/Maximum depth(m)	≤300	≤600	≤1200	≤3000	≤5000
通道输入 Channel input	32道同时输入，最大电极间距5m 32 channels for simultaneous input, with a maximum electrode spacing of 5m				
通道选择/Channel option	1-30				
可选深度/Adjustable depth	100-300	100-600	100-1200	100-3000	100-5000
深度分层/Layer division	60-200				
连接方式 Connection	串口、Wifi、蓝牙4.0、USB(选配4G通讯) Serial port, WiFi, Bluetooth 4.0, USB (optional 4G communication)				
显示屏 Display	10.1寸IPS广角178°可视触摸屏 10.1 inch IPS wide angle 178 ° visual touch screen				
操作系统 Operating system	安卓6.0.1 运行内存1G 内存8G（可扩展128G） Android6.0.1, RAM 1GB, ROM 8GB (expandable 128GB)				
CPU	ARM Cortex-A7, 8-core CPU, 2.0Hz				
GPU	OpenGL ES 2.0				
主要功能 Main function	深度可选、实时2D/3D绘图、电池可拆卸 Depth selectable, number of channels selectable, real-time 2D/3D graphics, battery detachable				
测量模式/Measure mode	MN/TT				
频率范围/Frequency range(HZ)	0.001-7K				
选频滤波 Frequency selective	预设选频和智能选频、模拟+数据滤波1-16次叠加可选 Preset frequency selection and intelligent frequency selection, simulation+data filtering with 1-16 stacking options				
分辨率/Resolution	0.001mV±2%		0.001mV±1%		
采样时间（秒）/Sampling time (s)	1200-9000		280-14400		
电池功耗/Battery	700mA/H		1100mA/H		
主机重量/Weight	2.2kg				



ADMT-6B型激电仪
ADMT-6B IP Electric Method instrument

主要特点

1. **精度高**：采用最新电路设计、单片机控制、自动降噪、数字滤波大大提高测量精度及稳定性。
2. **操作简单**：人性化的人机交互界面，内置各种装置的公式计算直读VP、IP、SP、RO、M、TH等相关参数。
3. **参数多**：可以测量VP、IP、SP、RO、M、TH等相关参数。
4. **装置齐全**：四极测深、中间梯度、联合剖面、五极、三极等十种装置类型。



The main purpose

1. **High precision**: The latest circuit design,single-chip control,automatic noise reduction,and digital filtering greatly improve the measurementaccuracy and stability.
2. **Simple operation**: Humanized man-machine interface,built-in formula calculation of various devices,direct reading VP, IP, SP, RO, M, TH and other related parameters.
3. **Many parameters**: VP, IP, SP, RO, M, TH and other related parameters can be measured.
4. **Complete equipment**: ten types of equipment including four-pole sounding, intermediate gradient, jiont profile, five-pole, and three-pole.

ADMT-1B型电阻率法仪
ADMT-1B resistivity meter

主要技术指标 / Main Specifications

电压测量范围：±2500mV
电压分辨率：0.01nV
输入阻抗：≥50MΩ
视极化率测量精度：±1%±1个字
SP补偿范围：±2500mV
电流通道：6A，±4%±1个字
电流分辨率：0.02uA
对50Hz工频干扰压制：优于80dB
发射功率上限：6000W
供电电压上限：1000V
供电波形：脉宽1-60秒，占空比1：1，双极性
电源：14.8V 5200mAH锂电池



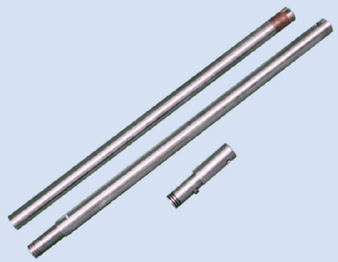
Voltage measurement range：±2500mV
Voltage resolution：0.01uV
Input impedance：≥50MΩ
Apparent susceptibility measurement accuracy：±1%±1 word
SP compensation range：±2500mV
Current channel：6A，±4%±1 word
Current resolution：0.02uA
Suppression of 50Hz frequency interference：better than 80dB
Maximum transmit power：6000W
Upper limit of supply voltage：1000V
Power supply waveform：pulse width1-60 seconds,duty ratio1:1,bipolar
Power supply：14.8V 5200mAH lithium battery

AD-15F型背包式手持钻机
AD-15F Backpack Portable Sampling Drill

AD-15F型背包式钻机，具有结构紧凑，体积小，可放在背包中背负移动，手持便可以用于钻探取样，用水少，适用于矿业、物化探等浅表快速取样。

AD-15F backpack portable sampling drill has compact structure and small volume, which can be moved after putting it in the backpack, it is handheld, which can be used for drilling and sampling with less water, suitable for the shallow surface fast sampling in mining, geo-chemical prospecting.





主要用于化探取样、区域地质填图、浅层地表和坑道内的矿脉探查、物探震源孔施工、岩土工程等钻探和取样打孔。

Mainly used for geochemical sampling, regional geological mapping, shallow surface and tunnel mineral vein exploration, geophysical source hole construction, geotechnical engineering and other drilling and sampling drilling.

钻机转速/Rotation speed	800-1560r/min
钻进深度/Drilling depth	≤15m
动力/Power	1.75HP
给进方式	手压加力式 金刚石钻头、合金钻头高速旋转钻进
Feed method	Hand-pressured diamond drill bits and alloy drill bits rotate at high speed for drilling
钻孔直径/Drilling diameter（mm）	Φ26
取芯直径/Sampling diameter（mm）	20
给进行程/Feed Travel	0.6m
整机净重质量	18kg
Net weight of Total Drill	
最大单件质量	5kg
Maximum Unit Weight	

AD-20F/AD-30F/AD-50F型轻便取样钻机
AD-20F/AD-30F/AD-50F Portable Gasoline Sampling Drill

轻便取样钻机具有结构紧凑，体积小，重量轻，搬移方便，燃油动力，方便野外施工，适用于矿业、桥梁，铁路，公路，水电等行业勘查取样，物探打孔，预埋件引孔，打爆破孔等。

The portable sampling drilling rig has a compact structure, small volume, light weight, easy to move, fuel powered, and convenient for field construction. It is suitable for exploration and sampling in industries such as mining, bridges, railways, highways, water and electricity, geophysical drilling, pre embedded parts drilling, and blasting holes.



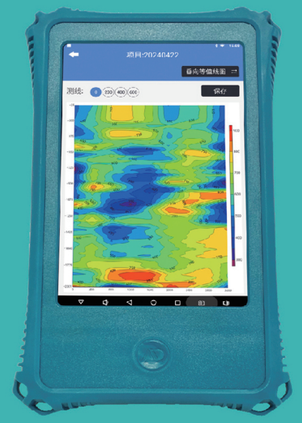






型号/Model	AD-20F	AD-30F	AD-50F
钻机转速/Rotation speed	300~960r/min	200~550r/min	255~550r/min
最大扭矩/Maximum torque	60N/m	130N/m	200N/m
钻进深度/Drilling depth	≤20m	< 30m	< 50m
钻杆直径/Rod diameter	28mm	30mm	30/42mm
钻孔直径/Borehole diameter	36~91mm	46~110mm	46~110mm
汽油动力/Gasoline power	4.5KW	4.5KW	7.2KW
汽油机转速/Gasoline engine speed	3600r/min	2000~3600r/min	2000~3600r/min
给进方式	链轮链条	链轮链条	链轮链条
Feed method	Sprocket chain	Sprocket chain	Sprocket chain
钻塔类型	单立柱斜支撑	单立柱支撑	单立柱支撑
Drill Tower Type	Single column inclined support	Single column support	Single column support
外形尺寸/Overall dimensions	740*530*1600mm	700*650*2830mm	700*1200*3900mm
钻机重量/Drill weight	68kg	100kg	180kg

配件



无线主机

搭载艾都自主开发的应用软件，实现对测试主机的无线操控，对测量数据的处理、绘图分析等，提高测试的便捷性和效率。适用于艾都绝大多数智能化产品，随着艾都产品的发展，无线主机的适用性将得到进一步提升，该款无线主机将展现出更加广泛的应用前景和巨大的市场需求。



C1探头

特别适用于多种复杂地形和测量环境。C1无线探头无需电极插地，不受地形限制，无论是崎岖的山地还是坚硬的水泥地，都能进行准确的测量。传统的电极测量方式需要插入地面，操作繁琐，且容易损坏电极。C1无线探头无需插地，简化了测量过程，提高了测量效率。潮湿地面、盐碱地，电极测量容易受到水分、盐分等因素的影响，导致测量结果不准确。C1无线探头通过无线方式进行测量，避免了这些干扰因素，提高了测量的准确性。



测线

电缆上带有控制芯片，实现测试过程自动化控制，能够在测试过程中实时对采集到的数据进行滤波、校准处理，以确保测试结果的准确性和可靠性。



一体式合金电极锤

特制多功能电极锤 ，可作为手持式电极手柄，可锤、可踩、可拔、可插入。