艾都慧测 / **Aidu inteligent**

上海艾都慧测智能科技有限公司
Shanghai Aidu Intelligent Detection Technology Co. Ltd

上海总部地址：上海市闵行区曹建路169号E栋3楼
Headquarter：3rd Floor, Building E, No.169, Caojian Road, Minhang District, Shanghai

桂林分公司地址：广西桂林市七星区七里店路桂林国家大学科技园5栋4楼
Branch：4th Floor, Building 5, Guilin National University Science and Technology Park
Qilidian Road, Qixing District, Guilin City, Guangxi

中文网站/Chinese：https://kg.aidush.com
英文网站/English：https://www.aiduny.com

电话：400-995-3656   Office telephone: 021-51860763

考古仪器产品画册
ARCHAEOLOGICAL DETECTION
PRODUCT CATALOG

邮箱 / Email:
aidush@aidush.com

https://kg.aidush.com
https://www.aiduny.com

电话: 400-995-3656
Office telephone: 021-51860763

唯专注、故专业，唯先行、故领先

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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、ISO9001:2015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.

地下成像空洞探测仪

Underground Cavity Imaging Detector

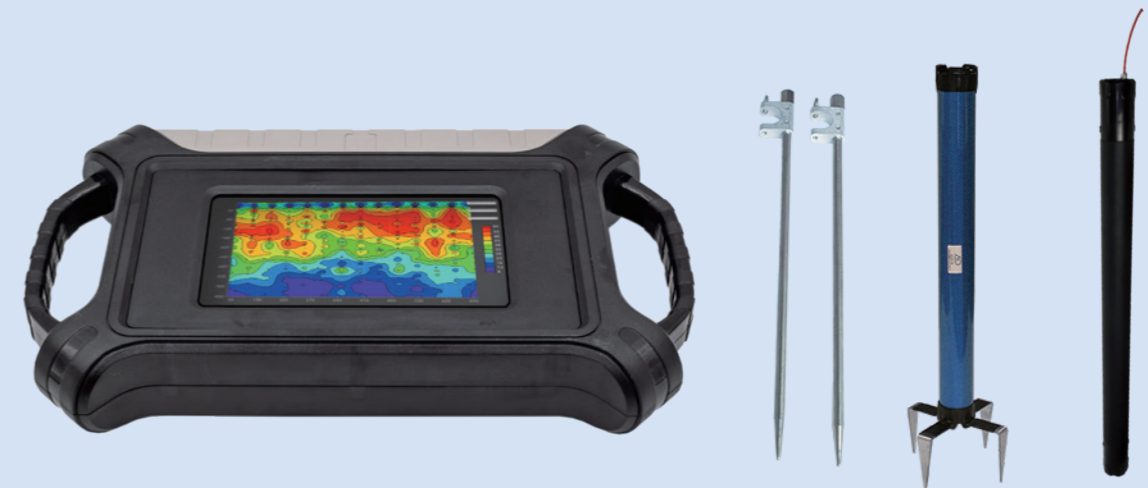| 自动成像	精准稳定	三屏互通	智能灵活
Automatic imaging	Precise and stable	Triple screen interoperability	Intelligent and flexible

这款地下成像空洞探测仪是对传统MT电法和频率测深法的革新之作，它采用轻量化、智能化的设计理念，实现了高效便捷的物探功能。该仪器摒弃了传统方法中沉重的供电部分，转而利用大地电磁场作为探测源，从而大幅提升了探测效率，达到原有方法的10倍以上，并且探测深度也得到了3-5倍的提升。它不仅能够测量MT电场，还可以同时测量MT电磁场，功能全面。

仪器配备了一块7英寸的安卓系统触摸屏，支持实时成像，使得探测结果能够直观呈现。更为便利的是，数据和图形可同时在仪器屏幕、手机屏幕以及电脑屏幕上共享，便于用户随时查看和分析。此外，该探测仪还配备了可拆卸的聚合物电池、20米测线、MN电极以及TT探头测量模式，满足了不同探测需求。用户还可以选择无线探头或金箍棒进行MN或TT测量模式，使得操作更加灵活方便。这款探测仪受到了广大客户的高度认可，是一款值得信赖的地下空洞探测工具。

This underground imaging cavity detector is an innovative work of traditional MT electrical method and frequency sounding method. It adopts a lightweight and intelligent design concept, achieving efficient and convenient geophysical exploration functions. This instrument has abandoned the heavy power supply part in traditional methods and instead uses the magnetotelluric field as the detection source, greatly improving detection efficiency, reaching more than 10 times the original method, and the detection depth has also been improved by 3-5 times. It can not only measure the MT electric field, but also simultaneously measure the MT electromagnetic field, with comprehensive functions.

The instrument is equipped with a 7-inch Android touch screen that supports real-time imaging, allowing for intuitive presentation of detection results. More conveniently, data and graphics can be shared simultaneously on instrument screens, mobile phone screens, and computer screens, making it easy for users to view and analyze at any time. In addition, the detector is equipped with a detachable polymer battery, a 20 meter measuring line, MN electrodes, and TT probe measurement mode, meeting different detection needs. Users can also choose wireless probes or golden stirrups for MN or TT measurement modes, making the operation more flexible and convenient. This detector has been highly recognized by customers and is a reliable underground cavity detection tool.

参数 parameter 型号 model	ADMT-20KG-X	ADMT-100KG-X
最大深度/Maximum depth(m)	≤20	≤100
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	5/10/20m	5/10/20/40/60/100m
深度分层/Layer division	5-20	5-100
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)	100-8K	
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	0.01mV±2%	
采样时间（秒）/Sampling time (s)	40-3600	
电池功耗/Battery	800mA/H	
主机重量/Weight	1.6kg	

The detector is equipped with a 10 inch Android touchscreen that supports real-time imaging, making the detection results visually visible. More importantly, the instrument screen, mobile phone screen, and computer screen have achieved three screen interoperability, making data sharing more convenient. Users can also choose 1-14 measurement channels according to their needs, as well as use wireless probes or water finding golden cudgels for detection. At the same time, the instrument supports switching between two measurement modes, MN electrode and TT probe, to meet the detection needs in different scenarios.

In field operations, the medium density imaging cavity detector demonstrates its convenient and easy-to-use characteristics. Whether it is setting measurement channels, selecting detection modes, or viewing real-time imaging results, it can be easily completed, providing strong support for field cavity detection work.

中密度成像空洞探测仪 Mid-Density Cavity Imaging 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

中密度成像空洞探测仪创新性地采用了16通道同时输入测量的技术，确保获取到稳定可靠的场源数据。这一设计不仅有效应对了天然电场的不稳定性问题，还大幅减少了在同一剖面内因多次移动电极而产生的误差，从而克服了单通道空洞仪器在重复测量时数据剖面不一致的难题。

该探测仪配备了10寸的安卓系统触屏，支持实时成像，让探测结果直观可见。更重要的是，仪器屏、手机屏、电脑屏之间实现了三屏互通，数据共享更为便捷。用户还可以根据需要选择1-14个测量通道，以及搭配无线探头或找水金箍棒进行探测。同时，该仪器支持MN电极和TT探头两种测量模式的切换，适应不同场景下的探测需求。

在野外操作中，中密度成像空洞探测仪展现了其方便易用的特点，无论是设置测量通道、选择探测模式，还是查看实时成像结果，都能轻松完成，为野外空洞探测工作提供了强有力的支持。

The Mid-Density Cavity Imaging Detector detector innovatively adopts a 16 channel simultaneous input measurement technology, ensuring the acquisition of stable and reliable field source data. This design not only effectively addresses the instability problem of natural electric fields, but also significantly reduces the errors caused by multiple electrode movements within the same profile, thus overcoming the problem of inconsistent data profiles when single channel cavity instruments repeat measurements.

参数 parameter	型号 model
	ADMT-60KG-16D
最大深度/Maximum depth(m)	≤60
通道输入 Channel input	16道同时输入，最大电极间距5m 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	5/10/20/30/40/60m
深度分层/Layer division	5-60
连接方式 Connection	串口、Wifi、蓝牙4.0、USB Serial port, WiFi, Bluetooth 4.0, USB
显示屏 Display	10.1寸IPS广角178°可视触摸屏（1024×600） 10.1 inch IPS wide angle 178 ° visual touch screen (1024 × 600)
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、通道数可选、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)	100-8K
分辨率/Resolution	0.01mV±2%
采样时间（秒）/Sampling time (s)	40-3600
电池功耗/Battery	900mA/H
主机重量/Weight	1.85kg

32通道空洞仪器 32-Channel Cavity Imaging 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

这款32通道空洞仪器通过采用32道同时输入测量的先进技术，成功克服了MT场源随时变化的难题，确保了稳定场源的获取。其勘探深度达到60米。仪器支持MN电极和TT电磁探头两种测量模式，并允许用户在1至32个测量通道之间灵活选择，同时还提供了数据叠加滤波的可选功能，进一步提升了探测数据的准确性和可靠性。为了满足不同勘探需求，该仪器还提供了有线探头和无线连接勘探金箍棒数据采集的选配方案。标配的10寸安卓系统触屏不仅支持实时成像，还能智能生成2D、3D和曲线图像，让探测结果更加直观易懂。此外，仪器屏、手机屏、电脑屏之间的三屏互通功能，使得数据的查看和分享变得更加便捷，成为了空洞探测工作的得力助手。

This 32-channel Cavity Imaging Detector successfully overcomes the problem of MT field source changing at any time and ensures the acquisition of a stable field source by using advanced technology of 32 channel simultaneous input measurement. Its exploration depth reaches 60 meters. The instrument supports two measurement modes, MN electrode and TT electromagnetic probe, and allows users to flexibly choose between 1 to 32 measurement channels. At the same time, it also provides optional data superposition filtering function, further improving the accuracy and reliability of detection data. In order to meet different exploration needs, the instrument also provides optional solutions for data collection using wired probes and wireless connection exploration gold stirrups. The standard 10 inch Android touchscreen not only supports real-time imaging, but also intelligently generates 2D, 3D, and curve images, making detection results more intuitive and understandable. In addition, the three screen interoperability function between instrument screens, mobile phone screens, and computer screens makes data viewing and sharing more convenient, becoming a powerful assistant for hole detection work.

参数 parameter	型号 model	ADMT-60KG-32D
最大深度/Maximum depth(m)		≤60
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		5/10/20/40/60m
深度分层/Layer division		5-60
连接方式 Connection		串口、Wifi、蓝牙4.0、USB Serial port, WiFi, Bluetooth 4.0, USB
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)		100-8K
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, simulation+data filtering with 1-16 stacking options
分辨率/Resolution		0.01mV±2%
采样时间（秒）/Sampling time (s)		40-3600
电池功耗/Battery		1000mA/H
主机重量/Weight		2.2kg

ACZ-8型质子磁力仪

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 0.01 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

参数	值
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	≤5,000 nT/m
基站测量间隔 Base station measurement interval	6 ~ 60 秒，可设定 6-60 seconds, configurable
GPS 定位精度 GPS positioning accuracy	< 2 .5m
存贮数据 Stored data	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 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 Display	240×240 图形液晶，带背光 240×240 graphic LCD with backlight
通讯接口/Interface	USB
电源 Power supply	DC7.4V 5200mA 内置可充电锂电池可待机连续工作 20 小时 DC7.4V 5200mA built-in rechargeable lithium battery, capable of standby and continuous operation for 20 hours
主机 Host	外形尺寸：270mm×110mm×223mm 重量：2.5Kg External dimension: 270mm×110mm×223mm Weight: 2.5Kg
探头 Probe	外形尺寸：Φ74×150mm 重量：0.8Kg External dimension: Φ74×150mm Weight: 0.8Kg

与进口产品的日变观测对比试验
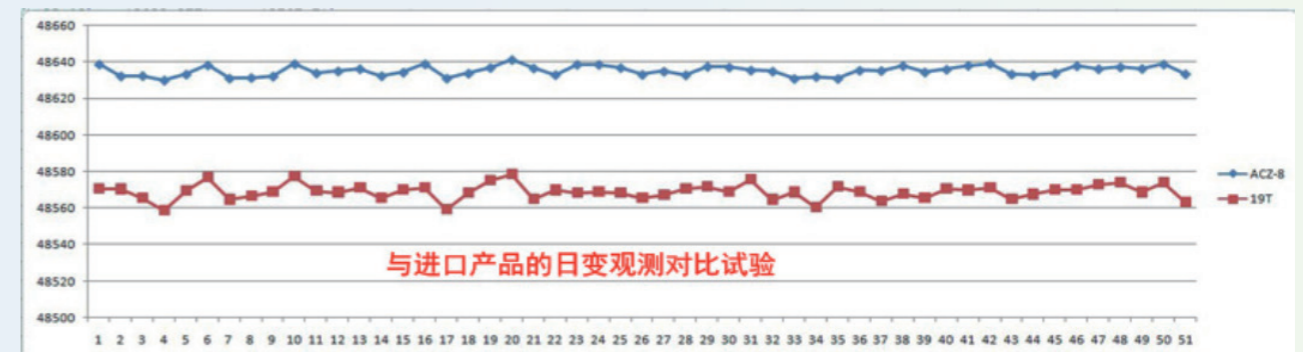
ADMT-6B型激电仪

ADMT-6B IPElectric Method instrument

ADMT-1B型电阻率法仪

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 measurement accuracy 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.

主要技术指标

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

Main Specifications

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