# Golden Hours Company Limited



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# **OUR PRODUCTS SUPPLY**

# PQWT PRODUCTS





# PRODUCTS SUMMARY

PWQT-TC Mapping With One Button Water Detector

**PQWT-S Underground Water Detector** 

PQWT-M Mobile Water Detector

**Underground Pipe Leak Detector** 

**Borehole Inspection Camera** 

Leakage Automatic Aanalyzer

Dam Piping Leak Detector

# Mapping With One Button Water Dtector& Mine Locator

PQWT-TC150

PQWT-TC300

PQWT-TC500

PQWT-TC700









#### Mapping With One Button Water Dtector& Mine Locator

		Frequency	LCD
0.001mv	4	Single, Triple and 33 Freqency	Industrial 7-inch HD Touch Screen
0.001mv	6	Single, Triple and 40 Freqency	Industrial 7-inch HD Touch Screen
0.001mv	8	Single, Triple and 56 Freqency	Industrial 7-inch HD Touch Screen
0.001mv	8	Single, Triple and 68 Freqency	800x480 Touch Screen
0.001mv	8	Single, Triple and 68 Freqency	800x480 Touch Screen
0.001mv	8	Single, Triple and 98 Custom Freqency	800x480 Touch Screen
	0.001mv 0.001mv 0.001mv	0.001mv 6  0.001mv 8  0.001mv 8  0.001mv 8	Frequency  Single, Triple and 40 Frequency  Single, Triple and 56 Frequency  Single, Triple and 56 Frequency  Single, Triple and 68 Frequency

# Mapping With One Button Water Dtector & Mine Locator

- 1. Fast measurement speed, high efficiency, easy to carry, simple operation, high accuracy, strong ability of anti-interference
- 2. Automatic drawing the curve graph, the geological profile map, no need to transfer meaured data from the instrument to computer for drawing map, made the operation simpler and more convenient.
- 3. Automatic measurement and storage of data, automatically draw the curve. There is no need to record data.
- 4. Data will not be lost after shutdown, can store max 999 measured curve data, can store 999 point data each line.
- 5. Super Anti-interference Ability

Strengthening the use of technology to suppress signal interference, highlight the desired signal, the duplex frequency notch filter, multiple anti-jamming design, digital filtering, combined with the traditional multi-filter filters, even in cities, or other external electrical interferential workspace, but also be a good consistency observed abnormal curve.

- 6. Can automatically display or export data files, graphs, profile map.
- 4. Using rechargeable battery-powered, up to 12 hours or more long standby time.

# PQWT-S WATER DETECTOR



## PQWT-S WATER DETECTOR

### 1. High Speed and High Efficiency

Complete the acquisition of a measuring point using less than 30 seconds.



#### 2. Easy to Carry

The weight of whole set is not more than 4 kg, easy to carry.

## 3. Good Accuracy, High Accuracy

Resolution is up to 0.001mV, the accuracy rate is more than 95% in a large number of field testing.

### 4. Simple Operation

Fully automated, high-speed CPU conducting voltage compensation automatically, automatic gain adjustment, automatic filtering and signal enhancement, automatic data processing and storage.1-2 person can oporate it. Manage the instrument operation in 10 minutes, for personnel without any experience can be completed training within 2 hours.

### 5. Anti-interference Ability

Strengthening the use of technology to suppress signal interference, highlight the desired signal, the duplex frequency notch filter, multiple anti-jamming design, digital filtering, combined with the traditional multi-filter filters, even in cities, or other external electrical interferential workspace, but also be a good consistency observed abnormal curve.

### 6. Flexible Electrode Layout

The instrument uses coarse, fine easy measuring electrode coarse and fine of two studies, which saves a lot of time, they can get high-precision data. You can use the bipolar profile, sounding poles, circular cross-section, multi-frequen cy sounding, multi-frequency cross-section measurements and other cloth extremely efficient exploration of different geological objects and solve different geological problems, convenience of explanation. The maximum benefit analysis trends, depth and thickness of groundwater.

## PQWT-M Mobile Water Detector

PQWT-M100



PQWT-M200



PQWT-M400



Underground Water Dtector & Mine Locator
Technical Parameters

Model No.	Depth	Accuracy	Channel	Frequency	Display
PQWT-M100	100 Meters	0.001mV	4	triple and 30 frequency.	LED indicator, connect mobile wifi and install APP in mobile
PQWT-M200	200 Meters	0.001mV	6	triple and 36 frequency	LED indicator, connect mobile wifi and install APP in mobile
PQWT-M400	400Meters	0.001mv	8	triple and 48frequency	LED indicator, connect mobile wifi and install APP in mobile

## PQWT-M Mobile Water Detector

- 1. No need to register, it is ready to use
- 2. No network required, no traffic required
- 3. Automatically draw geological sections
- 4. Suitable for all terrain exploration

- 5. Expert remote assistance to fix the well position
- 6. Inexperienced person operate it by five minutes

# APPLICATION OF UNDERGROUND WATER & MINE DETECTOR

**Find Water** 



**Engineering Exploration** 



Mine Detection



Archaeology



Cavity Exploration



**Geothermal Prospecting** 



# Underground Pipe Leak Detector

PQWT-CL200	PQWT-CL500	Model No.	Depth	Frequency Range	Audio Amplifier Gain	Operation Mode	LCD Size	Live Recording	Stand- by Time
PQWT-CL300	PART SERVICE PER	PQWT-CL200	2 Meters	1-5000HZ					
		PQWT-CL300	3 Meters	1-6000HZ	Adjustable	Spectrum	7-inch	The number	10
POPT MARAMARIMIANS	PQWT-CL600	PQWT-CL400	4Meters	1-7000HZ	Within Analysis The Class of Filtering 100 Analysis	HD and time of recordings is Color unlimited LCD	and time of recordings is	Hours	
PQWT-CL400	TONY MIRRAY AND	PQWT-CL500	5Meters	1-8000HZ		Location Mode Long-Term	Touch Screen		
PHYSIC MARKET AND RECED		PQWT-CL600	6 Meters	1-9000HZ		Mode			

# FEATURES OF UNDERGROUND PIPE LEAK DETECTOR

- 1.The use of latest digital signal processing chip and a digital filter chip, 16M cache controller integrated, more responsive. In particular, it can filter with the interference of environmental noise, screening out the leakage noise, allowing the operator to lock leakage points quickly.
- 7-inch high-definition digital color LCD touch screen with a resolution of 800 \* 480, can provide 12 display pages, can show the measurement parameters more clearly and intuitively, and full touch screen design, simple operation.
- 3. Each has 1 ~ 5000Hz, 6000Hz, 7000Hz, 8000Hz, 9000Hz, 50 ~ 5000Hz frequency range, can be displayed the distribution of the noise signal at each frequency in real time.
- 4. Sensor is built-in preamp circuit, using a rubber ring seal and cushion, and the application of professional acoustic methods, making the ability to capture the noise is higher than similar products.
- 5. Adopt latest noise detecting element, sounds clear.
- 6.Automatic drawing continuous noise curve (Location Mode) within a certain time, so that the leakage point position is determined more quickly.
- 7.Using a large capacity battery, can work for more than ten hours, and can be removed charging and online charging.
- 8.Super anti-jamming circuit design, digital signal and analog signal effectively isolate and eliminate the noise generated by the digital circuit.

# BOREHOLE INSPECTION CAMERA

## **Technical Parameters**

**Host Machine** 

Winding car with Cable and camera



Model No.	Depth	Measure ment Accuracy	Operating Ambient Temperat ure	LCD Size	Relati ve Humi dity	Power Supply	Stand -by Time
PQWT-K1	150M	0.001mV		7:		D044.0V	0
PQWT-K2	300M	0.001mV	10 °C ~ +60 °C	7-inch high- definition LCD screen	≤ 85%	DC14.8V Recharge able Battery	6- 7Hour s
PQWT-K3	400M	0.001mV					

# INTRODUCTION OF BOREHOLE INSPECTION CAMERA

PQWT-K series well borehole inspection camera is designed specially for inspecting the inside condition of underground mine wells and water wells.

This instrument is mainly used in detecting formation structure in the hole, fracture and karst status in the well bore stratum, distinguishing fracture and breakage, determining the position of karst and monitoring the hole condition for a long time, can detect vertical hole, horizontal hole and any angle hole, and can record the damage and breakage of drilling casing pipe and drilling casing pipe wall of deep well in real time. The clear image(video) will be directly output to the LCD screen by a special cable.

PQWT-K series well borehole inspection camera is widely used in the repair of mine well, coal mine well, water wells and oil mine wells, the salvage of garbage fell in wells, also can detect the location of drilling accuracy, detection casing corrosion characteristics, can accurately check the casing corrosion, A direct reflection of the casing corrosion of the shape, degree of corrosion, in geological reconnaissance, it is used to identify the geological structure, construction check the quality of concrete placement

# FEATURES OF BOREHOLE INSPECTION CAMERA

- 1. Real-time transmission of high-definition screen, automatic video recording of the video observation system
- 2. Fill-in system for users to choose, to cope with different circumstances of the underground environment.
- 3. Precision to the depth of the millimeter detector.
- 4. Removable camera, easy to carry.
- 5. Just need connecting three pcs of aviation plug before operation, easy to operate.
- 6. The use of large-capacity battery-powered, no need external power supply, fully charged use of time up to 6-7 hours. The instrument can also be used as an external power supply when charging.
- 7. Using imported IP68 waterproof plug, can work underwater for a long time without leaking.

# LEAKAGE AUTOMATIC ANALYSER



**Technical Parameters** 

Model No.	Depth	Amplification Gain	Frequency Binning	Working Mode	LCD	PS
PQWT-CL900	8M	100 gain adjustment, 100volume adjustment, and 8 signal multiples adjustment	144 adjustable frequency ranges, and 21 center frequency analyzes	Spectrum analysis mode, filter analysis mode, automatic analysis mode	7-inch high-definition digital touch color LCD screen	DC 7.4V 5000mA rechargeable battery

# INTRODUCTION OF LEAKAGE AUTOMATIC ANALYSER

Leakage automatic analyser is a fully automatic leak detector, which overcomes the single leak detector is easy to exist due to the pipeline of liquid,gas flow rate pressure changes caused by miscarriage of justice problems. The method comprises the following steps: arranging a group of samplers in alinear array or a matrix mode in a leak detecting area of the pipeline; setting the working mode of the host machine in the wireless mode, then instructing the sampler in the group to collect data at the same time, and according to the number of samplers were stored in each sampler sampling data, by comparing the sampling of the sampled datasynchronization to determine the location of leaks.





# FEATURES OF LEAKAGE AUTOMATIC ANALYSER

- 1. Using the latest foreign digital signal processing chip and digital filter chip, controller integrated 16M cache, the response is more sensitive.
- 2. 7Inch HD digital touch-screen color LCD screen,resolution 800 \* 480, full touch design, simple operation.
- 3. The 9 sensors using wireless module to send signals, no wiring, transmission distance of 1,000 meters. And 9 sensors can be measured at the same time, so that the measurement range greatly increased, saving the the time to find the leaking water.
- 4. Users can adjust the frequency within 70HZ-9000HZ range.
- In the 70HZ-9000HZ range, real-time display of the noise signal at the distribution of the frequency.
- 6. Sensor within pre-amplifier circuit, using the rubber ring sealing and cushioning, and the application of professional acoustic methods, making the ability to capture noise than similar products.
- 7. Large volume battery can keep working more than 10 hours.
- 8. Super anti-interference circuit design, the digital signal and analog signals were effectively isolated, eliminating the noise generated by the digital circuit.

## DAM PIPING LEAK DETECTOR



# **Technical Parameters**

Model No.	Depth	Measurement Accuracy	Operating Temperature	LCD Size	Working Temperature	Power Supply
PQWT-G50	50M	0.1mV	-10 °C ~ +60 °C	7-inch LCD Screen	-10°C~50°C	DC 7.2V5000mAh Rechargeable battery, 4W
PQWT-G100	100M	0.1mV	-10 °C ~ +60 °C	7-inch LCD Screen	-10°C~50°C	DC 7.2V5000mAh Rechargeable battery, 4W
PQWT-G150	150M	0.1mV	-10 °C ∼ +60 °C	7-inch LCD Screen	-10°C~50°C	DC 7.2V5000mAh Rechargeable battery, 4W

# INTRODUCTION OF DAM PIPING LEAK DETECTOR

PQWT-G Series dam piping leak detector is a lightweight and highly efficient dam piping leak detection instrument. Detecting dam leak by measuring the frequency of the natural electric field and analyzing the resistivity changes inside the dam. Can find the leaking point of the piping of the dam, nest point leakage, bedrock foundation leakage, hollow, dynamic soil, ants and other caves, dams and other engineering disasters have a very good detection effect.





## FEATURES OF DAM PIPING LEAK DETECTOR

### 1. easy to carry

Use of the earth natural electromagnetic field as a signal source, does not require heavy manual power source part, the whole set of not more than 3 kilograms of weight, easy to carry and use.

#### 2. simple operation

Instrument by the highspeed CPU full automatic control, 10 minutes to learn the operation of the instrument, for no exploration experience of personnel can complete the relevant training in half an hour.

#### 3. high accuracy

The high performance amplifier and high performance AD converter, FFT digital filtering technology, the measurement accuracy is up to 0.1mV, obtaining stability comparable with traditional artificial field method instrument in extensive field testing.

#### 4. strong anti-interference ability

Advanced anti-interference technology, multi frequency and anti-jamming design, through digital processing equipment, even in the city, electrical interference or other external interference of the work area, also can be observed contour profile measurement repeatability.

# **OUR PRODUCTS SUPPLY**

# OYO PRODUCTS





## **Electric Method**



Product name	Model	Purpose of Use
MCOHM Profiler- 8i	MODEL-2160	Resistivity Image Profiling
NEW MCOHM EL3i	Model-2171	Vertical Electric Sounding & Borehole Logging of Resistivity-SP, Temperature & Caliper (by individual probe)

## **Borehole Logging**



Product name	Model	Purpose of Use
Geologger-GWS  3i & GW Combination  Probe	Model-3633 & Model-3493	Borehole Logging of Resistivity, SP & Natural Gamma by one probe
▶ Power winch 3895	Model-3895	Logging Winch in combination with Logging Equipments
► McSEIS-PS & Borehole Pick	Model-1108 & Model-3315	Borehole PS Logging

## **Seismic Method**



Product name	Model	Purpose of Use
NEW McSEIS-AT (3ch)	Model-1135	Passive wave survey (3 channels)
► McSEIS-MT NEO	Model-1134	Microtremor
▶ McSEIS-SW	Model-1109	Seismic Refraction & Seismic Surface Wave
▶ Handy Seis PS-1 NEO	Model-1818	Simple Seismic Survey

# **Laboratory Test**



Product name	Model	Purpose of Use
NEW Sonic Viewer 2i	Model-5261	Ultrasonic Velocitymeter for PS Velocity Measurement of Rock Specimen
▶ Point Load Tester	Model-4326	Rock Strength Test

## In-situ Test



Product name	Model	Purpose of Use
Elast Logger-3i & Elastmeter Digital Sonde	Model-4301 & Model-4302	Digital unit for the borehole pressuremeter test of high pressure type (for Rock)
▶ Elast Recorder & Elastmeter HQ Sonde	Model-4023 & Model-4180	Analog unit for the borehole pressuremeter test of high pressure type (for Rock)
▶ Elastmeter Sonde 4 inch	Model-4203	Sonde for 4 inch borehole
▶ LLT-M	Model-4189	Borehole Pressuremeter Test of Low Pressure Type (for Soil)
▶ Auto LLT2	-	Automatic unit for the borehole pressuremeter test of Low Pressure type (for soil)
▶ Soil Strength Probe	Model-4940	Soil Strength Test

# **Remote Monitoring**



Product name	Model	Purpose of Use
▶ Integral Water Level Meter	Model-4770	Remote monitoring of water level and temperature with ALL-in-one system

## **Deformation Measurement**

## Sensor



Product name	Model	Purpose of Use
▶ Digital Q-Tilt 6000 Probe & Handy Logger Digital Q-Tilt	Model-4480 & Model-4470	Manual monitoring of underground deformation

# Water Level/Quality Measurement

# Standalone with data logger



Product name	Model	Purpose of Use
▶ S&DL mini	Model-4800	Monitoring water level and temperature with ALL-in-one compact data logger
► S&DL Water Level and pH Meter	Model-4665	Monitoring water level and pH
► S&DL Water Level and Conductivity Meter	Model-4631	Monitoring water level and conductivity
▶ S&DL Water Level Meter	Model-4677	Monitoring water level and temperature

# **OUR PRODUCTS SUPPLY**

# IRIS PRODUCTS





## Syscal Kid Switch

Specifically designed for very shallow, high resolution resistivity sounding and profiling, the Kid is the most compact of the Syscal range whilst retaining the wellknown reliability and measurement accuracy of its counter parts.

The Kid has one measurement channel and a switch24 box for undertaking Electrical Resistivity Tomography (ERT) measurements. ERT quadrupole sequences are automatically computed by the instrument for the most common electrode arrays based off of the number of electrodes, electrode interval and depth levels. For more unconventional applications, the user can manually define the quadrupole geometry.

Easy-to-use, automatic, field proof, the Syscal Kid is ideal for archaeological, geological mapping and civil engineering applications.



### **Characteristics**

## **Transmitter**

Voltage:	0

Current: 0 - 500 mA

Power:

Battery: internal battery or external 12V

- 400 Vpp

Auto controled Internal 25W DC/DC converter

0.5s. 1s. 2s

1 channel 24 switchs

22 MOhms

2.5V, automatic gain, input protection 200V

Resistivity, Self potentiel, Induced polarisation, Quality control

power line rejection, SP linear drift correction.

1400 readings, stored on solid state memory

#### Receiver

Pulse duration:

Channels:

Input Impedance:

Input Voltage:

Readings:

Storage:

Noise Rejection:

Resolution / Accuracy:

1 uV / 0.2%

## **Applications**

#### Water ressources

- Locate conductive fault in fractured acquifere
- Assess water table characteristics
- Characterize salt water wedge extension in groundwater

#### Environment

- Detect leaks and monitor degradation in waste disposal
- Locate and image buried structures

#### **Dimensions**

(LXWXH) 23x18x23cm Fiber glass casing, weather proof,

weight:

4.7Kg with internal RX, TX batteries

Operating Temp.:

-10 to +50°C

## Syscal Junior Switch

The Syscal Junior is an all-purpose resistivity imaging and sounding system for environmental applications. The system can be supplied as a standard imaging system capable of recording two measurements simultaneously. The second recording channel significantly improves data acquisition time when the instrument is fitted with internal switching board for 24 (Switch-24) 48 (Switch-48) or 72 (Switch-72) electrodes for Electrical Resistivity Tomography (ERT).

The output current is automatically adjusted (automatic ranging) to optimize the input voltage values and ensure the best measurement quality. The system is designed to automatically perform pre-defined sets of resistivity measurements with roll-along capability.

Compact, easy-to-use and field proof, the Syscal Jr Switch measures both resistivity and chargeability (IP). With a maximum power output of 100W at 800Vpp, the Syscal Junior is suitable for most near surface geophysical prospection applications, such as pollution monitoring, salinity control, depth-to-rock determination, weathered bedrock imaging and shallow groundwater exploration (depth and thickness of aquifers). In high

Locate conductive fault in fractured acquifere

resistance environment, it may be necessary to use the Syscal R1 plus.

Assess water table characteristics

**Applications** 

Environment

Natural hazard

Monitor pollution

Water ressources



# **Characteristics**

nitter			

Voltage: 0 - 800 Vpp

Current:

Auto controled Internal 100W DC/DC converter Power:

0 - 1250 mA

internal battery or external 12V

250ms, 500ms, 1s, 2s, 4s, or 8s

2 channels, 24/48/72 switch

100 MOhms

 $1 \mu V / 0.2\%$ 

power line rejection, SP linear drift correction.

44800 readings, stored on solid state memory

-20 to +70°C

Battery:

## Receiver

Transr

Pulse duration: Channels:

Input Impedance:

Resolution / Accuracy:

Input Voltage:

Readings:

Storage:

15V, automatic gain, input protection 1000V

Resistivity, Self potential, Induced polarisation (Up to 20 windows), Quality control, and optional full waveform

Noise Rejection:

**Dimensions** 

31x23x31cm height depends on switch, Fiber glass casing, weather (LxWxH)

Operating Temp.:

weight:

proof. 11Kg with internal RX, TX batteries

Detect and characterize cavities Assess landslide extension and volume

Locate and image buried structures

Detect and locate clayey layers for geotechnical application

Characterize salt water wedge extension in groundwater

Detect leaks and monitor degradation in waste disposal

Syscal R1 Plus Switch

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eristics

The SYSCAL R1 Plus resistivity meter is specifically designed for medium-depth exploration. It combines a power source, transmitter up to a 200W or 1200Vpp output voltage, and a 2 channels receiver in a single unit; its compactness makes it an effective tool for intensive resistivity surveys.

The different switching cards allow to work with 24 (Switch-24) up to 72 (Switch-72) electrodes. For imaging applications, Iris Instruments proposes different standard heavy-duty multi-core cables (5 traces - 10m, 10 traces - 5m and 10 traces - 10m). Customized cables may also be assembled for special arrays or non-standard

applications. Measurement sequences can be configured through the instrument interface or via the PC software Electre Pro (provided with the Syscal). Electre Pro enables operators to develop and interrogate 2D, 3D, downhole and roll long sequences prior to heading into the field, helping to minimize potential data collection errors. The measured data

can be downloaded and processed before inversion via the PC software (Prosys II,



0 - 1200 Vpp Voltage:

**Transmitter** 

0 - 2500 mA Current:

Battery:

internal battery or external 12V

Auto controled Internal 200W DC/DC converter

Receiver

Pulse duration:

Power:

Noise Rejection:

Resolution / Accuracy:

Dimensions

( L x W x H)	31x21x21cm height depends on switch, Fiber glass casing, weather proof

250ms, 500ms, 1s, 2s, 4s, or 8s Channels: 2 channels, 24/48/72 switchs Input Impedance: 100 MOhms Input Voltage: 15V, automatic gain, input protection 1000V

 $1 \mu V / 0.2\%$ 

Resistivity, self-potential, induced polarisation (up to 20 windows), quality control and optional full waveform 44800 readings, stored on solid state memory

power line rejection, SP linear drift correction.

10-12.5 Kg with internal RX & TX batteries

-20 to +70°C

weight:

Operating Temp.:

enhancement, error display in case of procedure troubles. The internal memory can store full information on intensity, voltage, resistivity, IP Chargeability, geometrical parameters and station number. A serial link permits transfer of the data to a microcomputer for plotting and interpretation of the data. It can be used for civil engineering, groundwater and environmental projects, to solve problems such as depth-to-bedrock determination, localization of

The measurement is fully automatic, controlled by a microprocessor: automatic self-potential correction, automatic ranging, digital stacking for signal

- weathered bedrock, clay-gravel determination, measurement of depth and thickness of aquifers, salinity control, pollution monitoring, etc.
- surveys, etc.). The well-known reliability and accuracy of the Syscal range of resistivity meters will also mean extra value for both the contractor and the results end-user. **Applications**

This versatile device is designed to work in a large number of configurations (SP measurements, sounding, profiling, 2D, roll-along, 3D and 4D monitoring

provided with the Syscal)

### Water ressources

- Locate conductive fault in fractured acquifere
- Assess water table characteristics
- Characterize salt water wedge extension in groundwater

#### Environment

- Monitor pollution
- Detect leaks and monitor degradation in waste disposal
- Locate and image buried structures

#### Natural hazard

- Detect and characterize cavities
- Assess landslide extension and volume
- Detect and locate clayey layers for geotechnical application

Storage:

Readings:

## Syscal Pro switch

### Characteristics

minimum voltage level on all the reception channels and therefore a good measurement quality. This versatile device is designed to work in a large number of configuration (4 to 13 electrodes for manual measurement, SP measurements,

sounding, profiling, 2D, roll-along, 3D and 4D monitoring surveys, etc.).

**Applications** 

#### Water ressources

- Locate conductive fault in fractured acquifere
- Assess water table characteristics
- Characterize salt water wedge extension in groundwater

#### Environment

- Monitor pollution
- Detect leaks and monitor degradation in waste disposal
- Locate and image buried structures

#### Natural hazard

- Detect and characterize cavities
- Assess landslide extension and volume
- Detect and locate clayey layers for geotechnical application

The Syscal Pro is an all-in-one multinode resistivity and induce polarization	
imaging system for environmental and engineering geophysical studies. The Syscal	( C)
Pro gathers a 10 channels receiver and a 250W, 2000Vpp internal transmitter which	
make it the more powerful system of the Syscal range. This system allows to perform	0
up to 10 measurements at a time and its switching board allow to work for 48 (Switch-	000000000
48) up to 120 (Switch-120) electrodes.	8 00
The input current can be automatically adjusted (Vp request option) to ensure a	SYS
minimum voltage level on all the reception channels and therefore a good	8
measurement quality. This versatile device is designed to work in a large number of	4
configuration (// to 10 electrodes for manual measurement CD measurements	70

#### Transmitter

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Voltage:

Current:

Power:

Battery:

Channels:

Receiver

Pulse duration:

Input Impedance:

Input Voltage:

Resolution / Accuracy:

GPS:

Readings:

Noise Rejection:

**Dimensions** 

(LXWXH)

Storage:

weight:

31x23x31cm height depends on switch, Fiber glass casing, weather proof

11Kg with internal RX & TX batteries

0 - 2000 Vpp

0 - 2500 mA

Auto controled Internal 250W DC/DC converter.

and 1200W with external AC/DC

internal battery or external 12V

250ms, 500ms, 1s, 2s, 4s, or 8s

10 true differential inputs, 48/72/96/120 switchs

100 MOhms

15V, automatic gain, input protection 1000V

1 uV / 0.2%

GPS input for coordinates and synchronisation

Resistivity, self-potential, induced polarisation (up to 20 windows),

quality control and optional full waveform

power line rejection, SP linear drift correction.

44800 readings, up to 8 hours full waveform, stored on solid state

memory

The Syscal R2 unit is a high-power system designed for DC electrical surveys applied to groundwater exploration, environmental studies, civil engineering, structural geology investigation and mineral exploration.

This system uses an external DC source for the injection:



- A 250W DCDC converter supplied by a 12V battery

- A 1200W AC/DC converter supplied by a standard motor generator.

The Syscal R2 combined with the 1200W converter is therefore particularly adapted to reach high depth for groundwater exploration. It can be used with an external Switch Pro box.

It can be used for civil engineering, groundwater and environmental projects, to solve problems such as depth-to-bedrock determination, localization of weathered bedrock. Its power makes it adapted to detect fault in fractured bedrock aquifers and to explore groundwater aquifers (depth and thickness).

#### Characteristics

Transmitter	Tra	ns	mi	itter	
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Voltage: 0 - 1600 Vpp

Current:

External 250W DC/DC converter.

Power:

and 1200W with external AC/DC

0 - 2500 mA

Battery: internal battery

#### Receiver

Pulse duration:

Input

Impedance:

Accuracy:

Storage:

250ms, 500ms, 1s, 2s, 4s, or 8s

100 MOhms

Channels: 2 channels

Input Voltage: 15V, automatic gain, input protection 1000V

Resolution /

1 µV / 0.2%

Readings:

polarisation ( Up to 20 windows), Quality control, and optional full waveform

44800 readings, up to 8 hours full waveform

, stored on solid state memory

5.2Kg with internal battery

Resistivity, Self potentiel, Induced

Noise Rejection:

power line rejection, SP linear drift correction.

**Dimensions** 

31x21x21cm Fiber glass casing, weather (LxWxH) proof,

weight: Operating

-20 to +70°C Temp.:

## Tools



**Battery Tester** 



**Electrode Tester** 



SD Card Reader



WiConnect



Switch Pro



Security Pack



Test Box



**Pro Tester** 



Accessories

Contact Us

Offic And Showroom

No 1032, Thumingalar Road, 16/1-ward, Thingangyun Township, Yangon, Myanmar.

Call: +959 5002900, +959 43173871, +959 789797942

Emil :goldenhours.coltd@gmail.com

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