



## Pulse Induction Metal Detector

*Megapulse SR 126*



*Design – Silviya Rashkova & Plamen Rashkov*

*<http://www.deeptech-bg.com>*

After more than 12 years of experience with pulse induction metal detectors we are glad to introduce you the new Megapulse SR 126, designed for the treasure hunter that does not want to bother with too many controls.

Megapulse SR 126 is designed for detecting deeply buried or lost metal objects, metal pipes, underground communication equipment, treasures and similar objects and can easily detect larger objects, buried at great depth. It is because this unit works by the principle of electromagnetic induction at a very low frequency, which allows penetration deeply in the ground.

Megapulse SR 126 is good choice not only for the treasure hunters, but also for archaeological detection and geophysical prospecting.

The advantages of Megapulse SR 126 are:

- Microprocessor controled;
- Easy to use;
- Data Port for external data transfer;
- Detection of smaller and deeper targets;
- Wide range of searchcoils and accessories;
- Three package options to choose from;

# Megapulse SR 126

## FRONT PANEL

**FAST/SLOW  
MODE  
SELECTION**

**THRESHOLD  
ADJUSTMENT**

**LED INDICATORS  
FOR DELAY CONTROL  
AND INTENSITY OR  
STRENGTH OF SIGNAL**

**AUTO /  
SEMI-AUTO  
MODE  
SELECTION**

**SENSITIVITY  
ADJUSTMENT**

**LED INDICATOR  
FOR  
BATTERY LIFE**



**INDIKATOR  
FOR RESET  
AND DELAY  
ADJUSTMENTS**

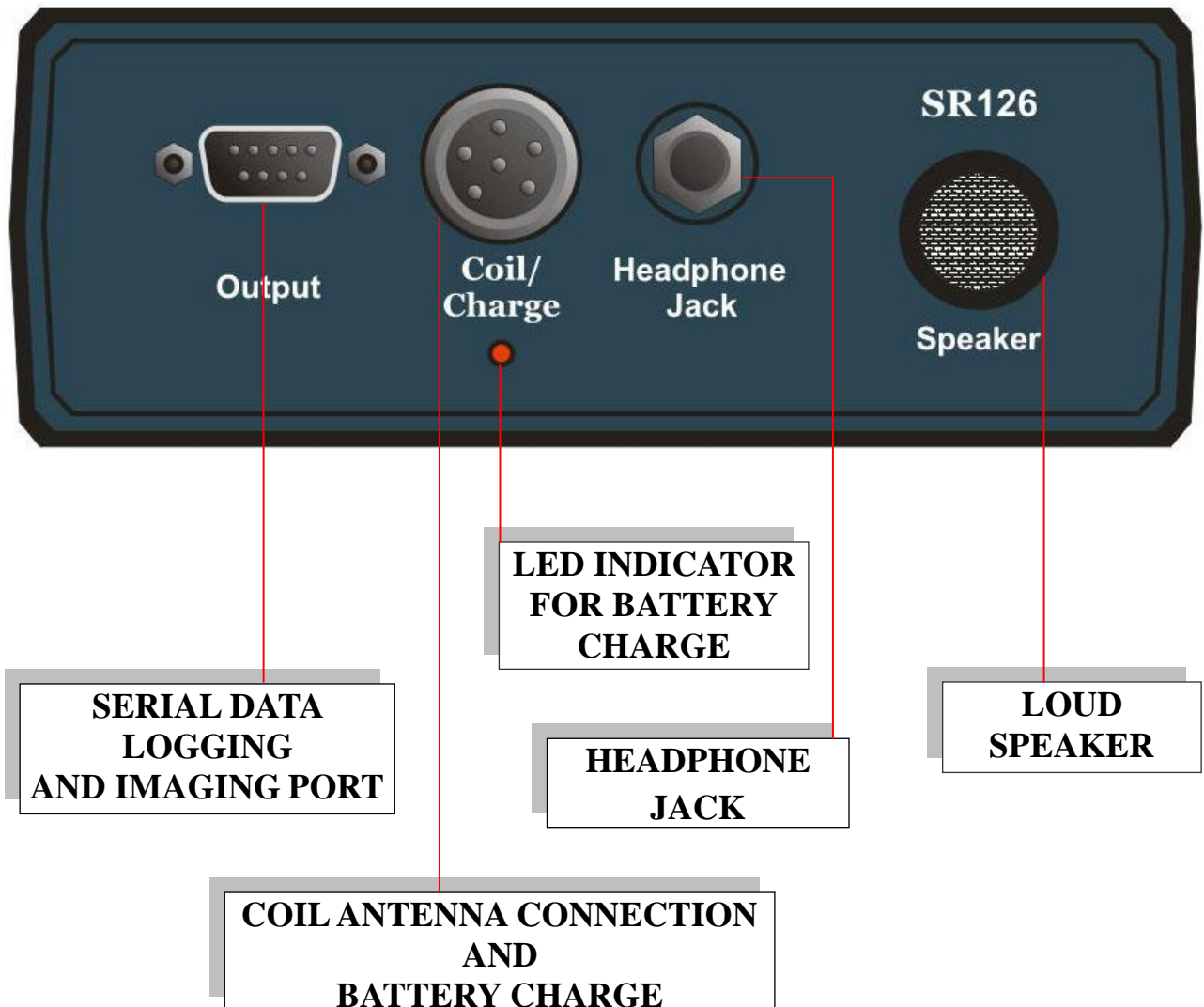
**MULTIFUNCTIONAL BUTTON:**

- PRESS SHORT TO TURN ON;
- PRESS AND HOLD TO ADJUST DELAY VALUES;
- PRESS TO SAVE DATA AND PROCEED TO WORKING REGIME;
- PRESS AND HOLD TO TURN OFF.

**UP AND DOWN  
ADJUSTMENTS  
FOR DELAY  
CONTROL**

**PRESS RESET BUTTON  
TO CLEAR DATA**

## REAR PANEL



## QUICK START GUIDE - Megapulse SR 126:



The ON/OFF multifunctional button is on the front panel.

Press this button to **TURN ON** the unit and to adjust the unit for your detection needs.



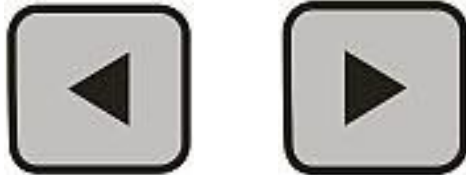
Before starting with adjustments make sure battery is fully charged.

If the led indicator light for battery life is on, you must charge the battery.



Now you can press the multifunctional button ON/OFF again.

Press and hold to adjust DELAY value. DELAY values are adjustable in the range of 1-8.



On the front panel are displayed UP and DOWN buttons.

By pressing these buttons you can increase or decrease the DELAY values. The DELAY values are adjustable in the range of 1-8.

For beaches and very light soil minerals you can choose the low value for the DELAY. For standard or general operating conditions use the middle values. When working in heavy mineral ground or when searching very deep and large targets select high values.



On the front panel is the 8 LED indicator lights.

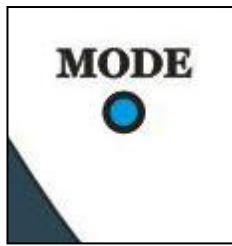
By pressing UP and DOWN buttons (increasing or decreasing the DELAY Values) the LED strip indicates the DELAY value in the range of 1-8.

PLEASE NOTE: By pressing UP and DOWN buttons the LED strip will indicate the DELAY value in the range of 1-8 ONLY in ADJUSTMENT REGIME.

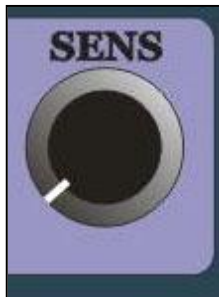
In WORKING regime this LED strip indicates the signal level. In this regime if you press UP and DOWN buttons nothing will change.

REMINDER: Megapulse SR 126 is microprocessor controlled. When you shut down the unit the microprocessor remembers the last value of the DELAY.





On the Front Panel is the Blue LED indicator. During the DELAY controls adjustments OR when you press the RESET button, this LED indicates that you are in MODE selection.



On the Front Panel is the SENSITIVITY knob. The sensitivity level alters how responsive the detector is to signals received from the search coil. The higher the sensitivity level is set the more responsive the detector is.

By turning the SENSITIVITY knob you can increase or decrease the values for sensitivity.

Heavy ground mineralization, nearby radiostations or power transformers are reasons to lower the value of SENSITIVITY.

Lower sensitivity at far left for very large or shallow targets, or higher sensitivity at far right for very small or deep targets. Setting the detector to the hiest sensitivity would cause it detecting even the smallest objects.



The sound THRESHOLD is used to ground balance the detector. Slowly turn the THRESHOLD knob to the right until you hear just one or two ticks per second.

Use low levels of adjustmens in heavy mineralization soils.



AUTO/SEMI toggle switch gives you the possibility to select between AUTO or SEMIAUTO mode. If you choose to work in AUTO mode the detector retunes automatically to the changes of the ground conditions.

**REMINDER: Automatic Mode is motion detection. The search coil needs to be moved completely through the target area.**



FAST/SLOW speeds allow you to customize your Megapulse SR 126 for optimal performance. This allows you to choose the best speed for the ground variability, the coil you are using and your own hunting style.



On the right and on the left are the two buttons to RESET control unit in new ground conditions. You should press the button one or more times for each new target area or if any other settings are changed.

Pressing RESET over metal will ignore similar metal targets. The unit needs to be reset over a clear area (not on targets), not including minerals in ground.





On the front panel is the MULTIFUNCTIONAL button ON/OFF. Up to now we understood that:

- by pressing ON/OFF button you TURN ON the unit;
- after pressing it second time you can adjust DELAY;
- after pressing it for the third time you save DELAY value and the unit is ready for work;

If you want to TURN OFF the unit press ON/OFF button for fourth time and hold it for 3-4 sec.

## REAR PANEL GUIDE:



**Serial data logging and imaging port is used to transfare scans to logger for the use of 3-D imaging software**

**LED indicator for Battery charge**

**Headphone jack. Headphone Input: 1/4" Stereo Jack**

**Loud Speaker**

**On the rear panel is 6-Pin style connector. It is used for:**

- coil antenna connection;**
- Battery charge;**

**Please Note: Your original adapter has a 6-Pin type connector too.**

It is recommended that you connect your antenna to control unit before you plug in your battery.

This can help avoid any damage to circuits.

You can use headphones with this unit. They are recommended in loud working spaces. Example near a river or noisy industrial area.

### **Warning!!!**

The original adapter is for 220V.

You can use any adapter A/C – 8-9V or D/C -12V.

Polarity of connection of cuplung is not important.

I-out must be more from 500mA.

## **SEARCH COILS FOR MEGAPULSE SR 126**

Target identification by Megapulse SR 126 is possible with the 1/1 SQUARE SEARCH COIL(BASIC), embedded in PVC tubes. Search coils with sizes 0,5/0,5m; 1,5/1,5m and 2/2m can be connected to the unit too.

With larger diameter coil even big areas can be searched quickly. Searching with large search coils (1 m and large) is easy, when the coil is carried by two people with the help of supplied straps. The search coil should be held approximately 10 to 20 cm. from the ground while searching.

With very large search coils Megapulse SR 126 penetrates deeper than it is usually possible with smaller coils.

With the large search coils the very small metal pieces are ignored automatically.

The pinpointing of the buried object with Megapulse SR 126 can be achieved with 11" round search coil:



An alternative search coil for Megapulse SR 126 is the CABLE COIL with size 2/2 m. This search coil offers FIVE more ARRANGEMENTS to suit your search needs. This search coil can be arranged as 0,50/0,50; 1/1 m; 1/3 m and 2/2m coils by fastening the windings on free frame (from PVC for example) with tape. It can also be arranged in form as "eight".



## **TECHNICAL CHARACTERISTICS :**

- Operating voltage:12V;
- DB9 port is provided for computer connection and GPS system for localization;
- Continuous power consumption:min 240mA (without sound and light);
- Pick power:>250 W;
- Maximum power consumption:280 mA;
- Working Frequency:126 Hz;
- Sound Range:0,1Hz-6,5kHz;
- Battery:Rechargeable 1,3Ah(2,3Ah-optional),hermetic,acid Battery;

- Charger input: 220V 50/60 Hz/AC;
- Charger output: 9 VAC 500mA or 12 VDC;
- Battery Charging Time: Max 10 hours (full recharge);
- Microprocessor Control;
- Automatic Ground Balance;
- Auto Tracking;
- Manual Tuning;
- Delay control;
- LED Display;
- No-Motion mode;
- Audio and Visual Mode;
- Depth Control for Maximum Depth Detection;
- Reset controls for easy operation;
- Headphone input: 1/4" Stereo Jack;
- Internal Power Supply;
- Reverse polarity protection;
- Optimal Temperature Range: -10 / + 50 Degrees C;

### **THREE PACKAGE OPTIONS**

**to choose from, depending on your client's detection needs :**

#### **Standart package:**

1. Electronic block with build-in Rechargeable 1,3Ah, hermetic, acid battery;
2. Cablecoil – 8m;
3. Adapter;
4. DB9 cable;
5. CD with English user manual;

#### **Pro package:**

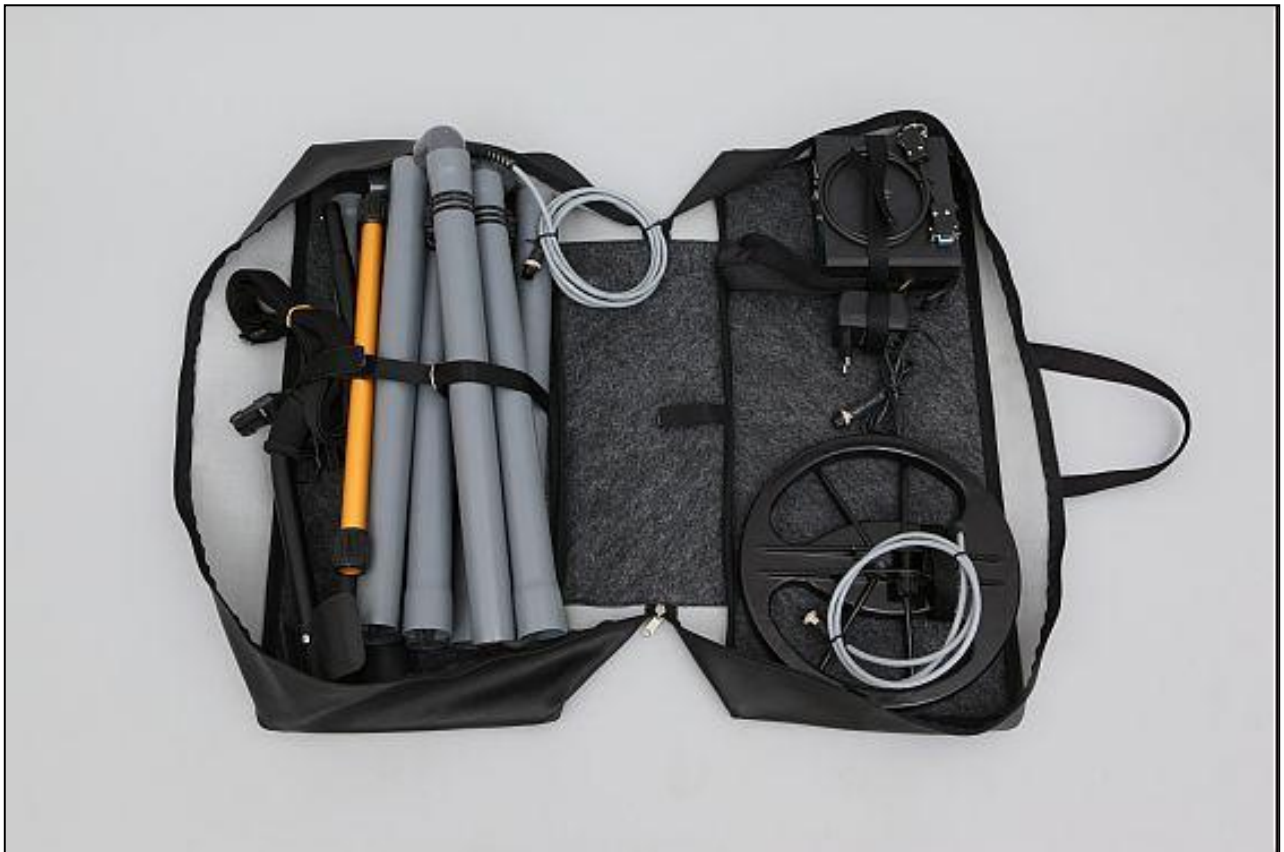
1. Electronic block with build-in Rechargeable 1,3Ah, hermetic, acid battery;
2. 1/1m search head built-in PVC tubes;
3. Adapter;
4. DB9 cable;
5. CD with English user manual;

### Full package:



1. Electronic block with build-in Rechargeable 1,3Ah, hermetic, acid battery;
2. 1/1m searchhead built-in PVC-tubes;
3. Adapter;
4. 11" round searchcoil;
5. Three-pole shaft for the 11" coil;
6. CD with English user manual;
7. DB9 cable;
8. Leather carry case for the whole equipment:





### **Optional equipment for Megapulse SR 126:**

- 50 / 50 cm squarehead embeded in PVC tubes:

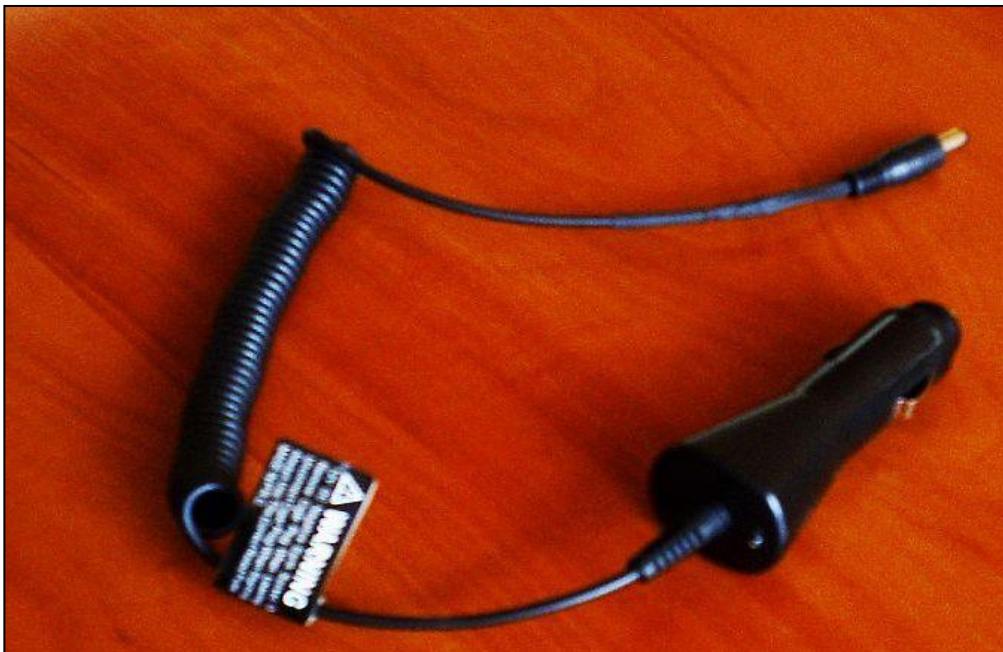




- 150 / 150 cm squarehead embeded in PVC tubes;
- 200 / 200 cm squarehead embeded in PVC tubes;
- prolong cables for the squareheads:



- car charger:



## Limited Warranty Information

DeepTech warrants your consumer or industrial product against defects in material or workmanship for a period of two years on the electronic box and one year for the search coils from the date of purchase. If DeepTech determines the product to be defective in materials or workmanship, DeepTech will replace or repair the product to the original purchaser only.

Any alternation of the electronic circuit by an unauthorised person will lead to breach of warranty.

This warranty does not cover damage due to a fall, shock and accident; deteriorations due to an anormal use; cable breakage of the search coils or of one of its conductors.

If warranty service should be necessary, the detector must be returned complete with proof of purchase and a notice explaining the fault to your dealer.

DeepTech reserves the right to change the design or specifications of its detectors without notice.



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