

109 Deep Pro



www.noktadetectors.com

USER MANUAL

Thank you for choosing and purchasing our 109 Deep Pro detector.

Manufacturing high-tech metal detectors since 2001, Nokta Detectors has played a key role in the development of this sector. Nokta Detectors is particularly known for its technological know-how and professional staff.

Seeking to create different kind of technology, Nokta Detectors offers both high-quality products and services to its consumers all around the world. Nokta Detectors has been operating under the principle that environmental and community responsibility, customer satisfaction and insistence on high-quality are of the utmost importance.

Nokta Detectors aims to remain a leading pioneer in its sector, winning the trust of its consumers and always being the preferred choice for metal detecting.



WARNINGS	3-4
ASSEMBLY	5-8
CORRECT WAY OF HOLDING	9
CORRECT WAY OF SWEEPING	10
DEVICE INTRODUCTION	11-12
BATTERIES	12
CONTROLS	13-16
TURNING ON THE DEVICE	13
VOLUME	13
GROUND BALANCE	14
SENSITIVITY	15
IRON AUDIO	15
SEARCH MODES	16
SEARCHING AND METAL DETECTION	17
TECHNICAL SPECIFICATIONS	18

WARNINGS!**LEGAL WARNINGS**

▶ When using the device, comply with all applicable laws and regulations. Do not use the device in private premises, historic sites and military zones. Notify the authorities of any historical or cultural findings.

WARNINGS ABOUT THE DEVICE

- ▶ This is a high-tech electronic device. Do not assemble or use the device before reading the user manual.
- ▶ Do not expose the device or the search coil to very hot or cold conditions for extended periods of time. (Storage Temperature: 0°C (32°F) - 40°C (104°F))
- ▶ Do not immerse the device or its accessories (except the search coil) in water; do not expose them to extreme humid conditions.
- ▶ Protect the device from external impact, especially during transportation.
- ▶ The device can only be opened and repaired by authorized service technicians. The warranty will be voided if the device is opened by you or an unauthorized person.

IMPORTANT

Do not use the device indoors. The device will constantly give target signals inside places like homes where there are many metals present. Use the device outdoors, in open fields.

Do not let another detector or an electromagnetic device come in close proximity (10m (33ft.)) to the device.



IMPORTANT

Do not carry any metal objects while using the device. Keep the device away from your shoes while walking. The device may detect the metals on you or inside your shoes as targets.



For Consumers within the European Union: Do not dispose of this equipment in general household waste. The crossed wheeled bin symbol on this equipment indicates this unit should not be disposed of in general household waste, but recycled in compliance with local government regulations and environmental requirements.



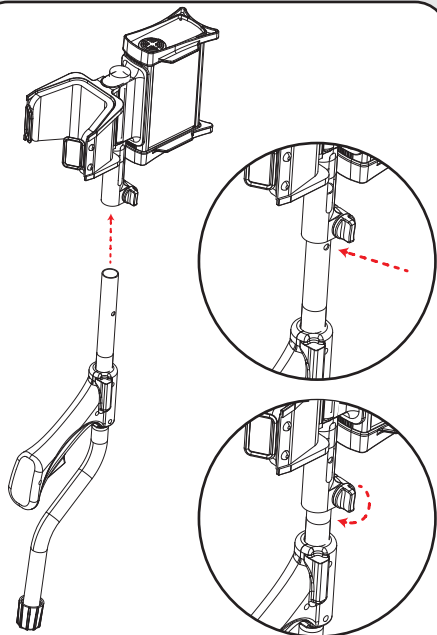
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



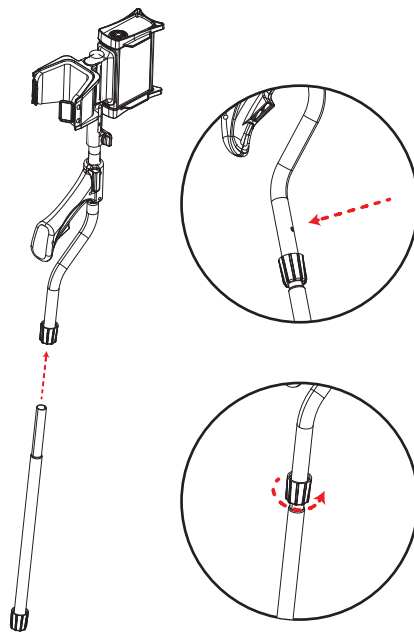
- 1) System Box
- 2) Handle and S-Rod
- 3) Search Coil
- 4) Search Coil Cover
- 5) Upper Shaft
- 6) Extension Shaft
- 7) Wingnut, Fastening Screw and Washers
- 8) 8 AA Batteries
- 9) Battery Case
- 10) Battery Case Cover
- 11) Headphones



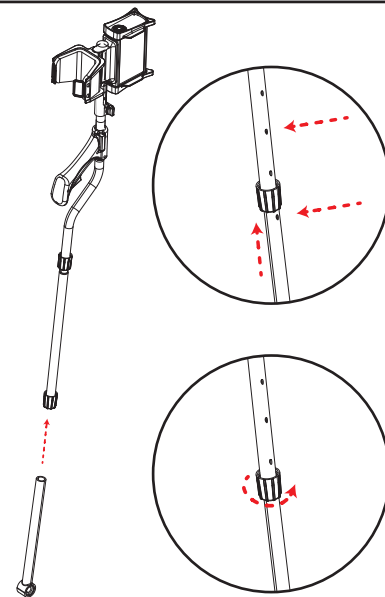
Coil cover use is optional. It protects the search coil from scratches. If you want to use the cover, attach the cover to the coil and press firmly on the edges to secure.



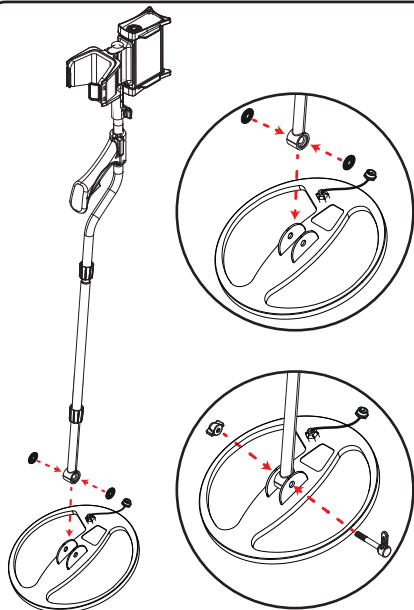
Holding the metal pin pressed, insert the S-rod into its place underneath the system box and secure it by tightening the wingnut as shown in the picture.



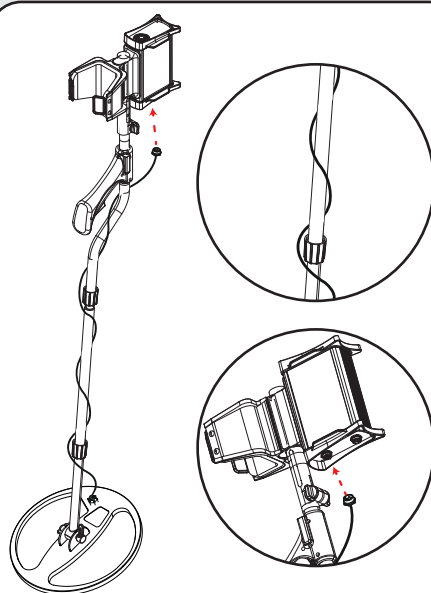
Again by holding the metal pin pressed, insert the upper shaft into the S-rod and click the pin into its hole. Then, secure it by tightening the twist lock.



Insert the extension shaft into the upper shaft holding the metal pin pressed and adjust the height by clicking the pin into one of the holes. Then, secure it by tightening the twist lock again.



Place the washers into the openings on both sides at the end of the extension shaft. After placing the shaft on the coil as shown in the picture, insert the fastening screw through the hole and tighten it using the wingnut.



Wrap the coil cable around the shaft all the way up as shown in the picture and after inserting it in the coil input socket underneath the system box, secure it by twisting the connector. Pay attention to not wrap the cable too tight during this step.



To carry the battery case on your waistband: Insert the battery case in the leather cover. As shown in the picture, attach the clip to the backside of your belt. Plug the battery case cable into the socket underneath the system box and tighten securely.

1



2



3a



3b



4



5



To attach the battery case to the system box: Follow the above steps in the pictures. After step 5, plug the battery case cable into the socket underneath the system box and tighten securely.



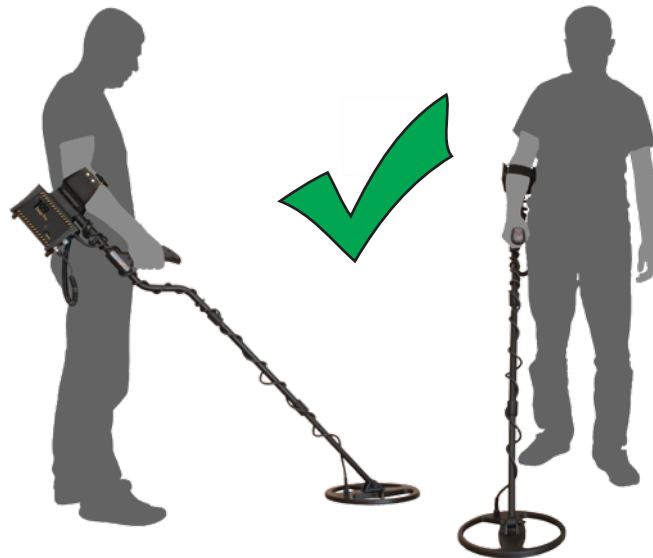
Assembly is completed.

CORRECT WAY OF HOLDING



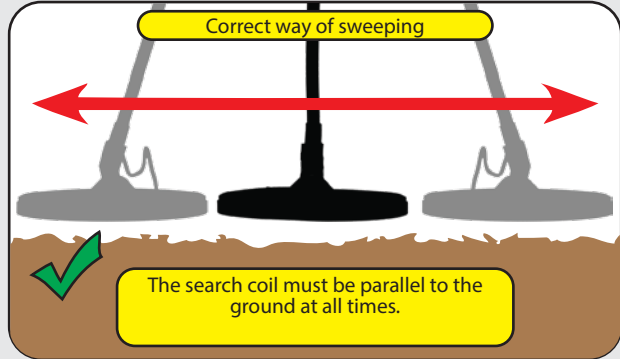
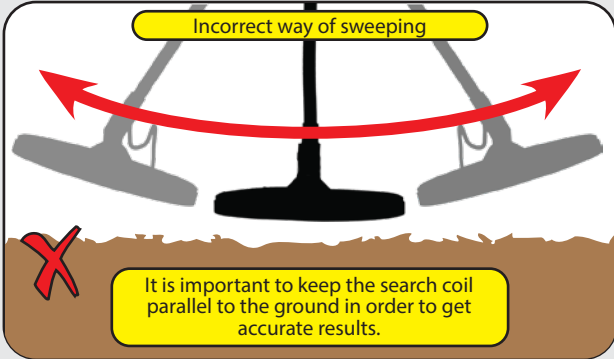
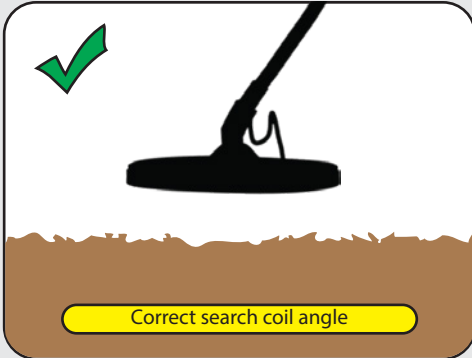
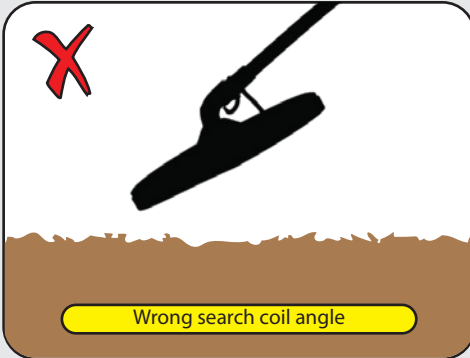
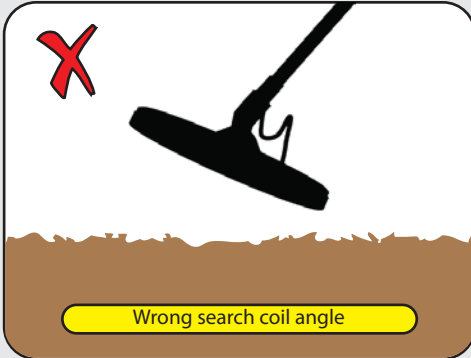
Shaft height is wrong.

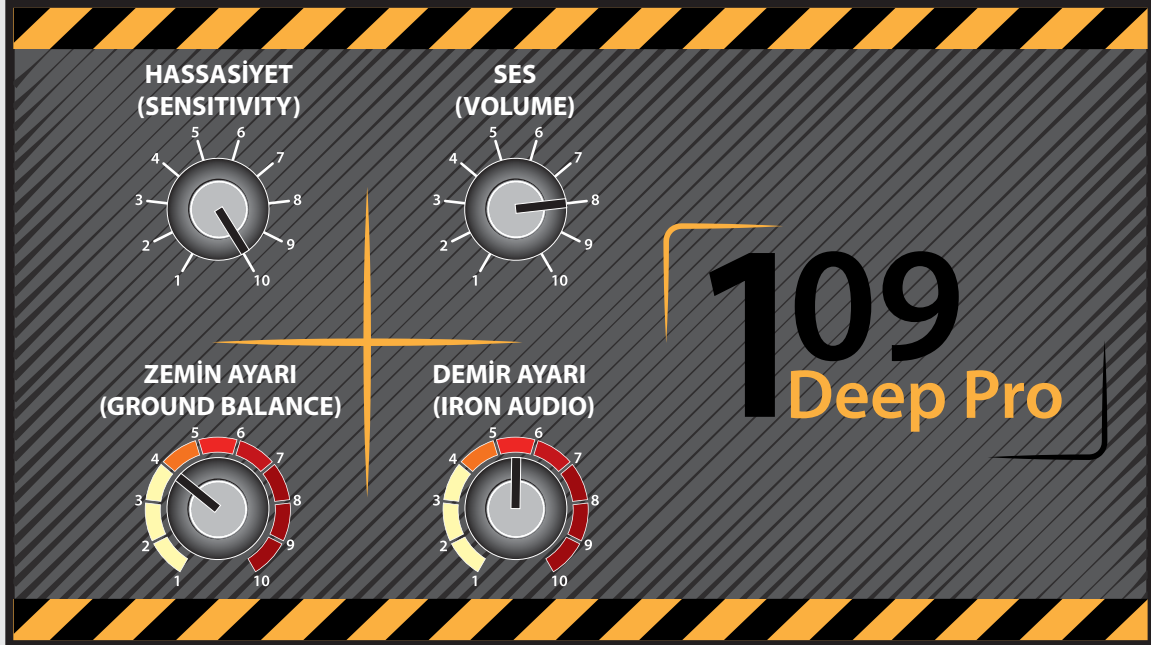
It is very important to adjust the shaft to your height correctly to be able to search without discomfort and fatigue.

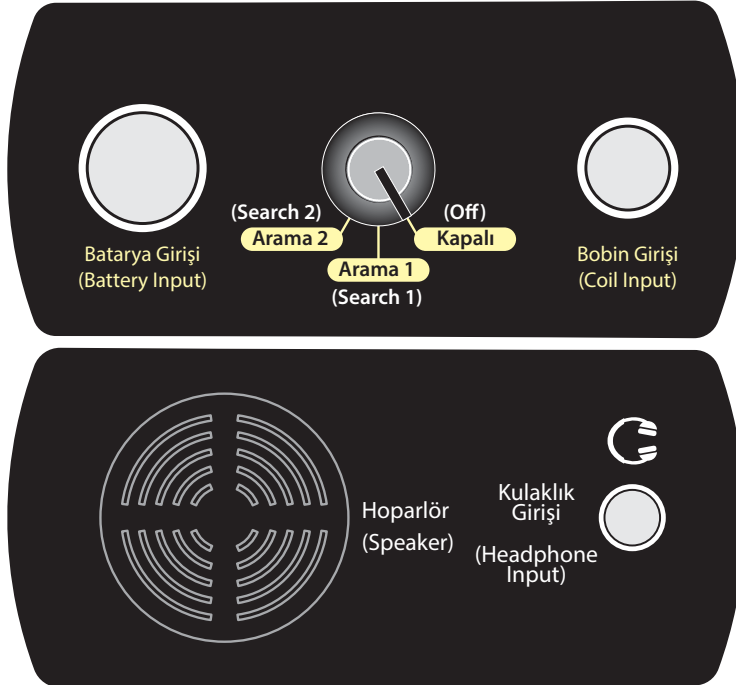


Shaft height is correct.

Adjust the height of the shaft so that you are standing in an upright position, your arm is relaxed and the search coil is approximately 5cm (~2") above the ground.







BATTERIES

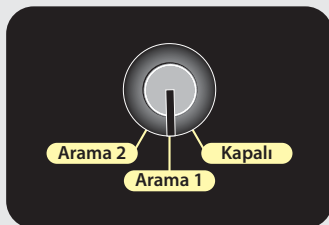
The device comes with 8 AA Alkaline batteries and a battery case. Insert the batteries in the case paying attention to the + (plus) and - (minus) poles. When batteries are full, they will provide approximately 25-30 hours of use. Different types or brand of batteries may have different lifetimes.

LOW BATTERY

When the batteries are low, the device will produce a warning sound approximately once every minute. The device will shut down automatically 3-4 hours after the warning.



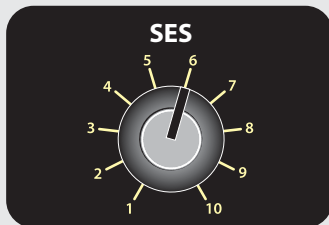
TURNING ON THE DEVICE



To turn on the device, rotate the On/Off knob to "Search 1 (Arama 1)" or "Search 2 (Arama 2)". Turn the same knob to OFF (Kapalı) position when you want to turn off the device.

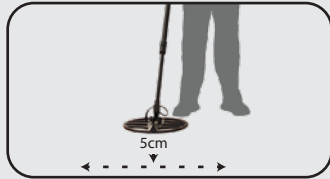
When the device is turned on, a melody will be heard and approximately 10 seconds later you will hear a long beep indicating that the device is ready to use. The device will provide more depth in Search 1 (no discrimination). To search with discrimination, turn the On/Off knob to Search 2.

VOLUME (SES)



You can adjust the volume of this device with this knob. 1 is the lowest and 10 is the highest level.

GROUND BALANCE (ZEMİN AYARI)



Especially in mineralized ground target signal is negatively affected by the "noise" caused by ground mineralization. This situation may prevent the detector from getting a clean signal from the target necessary for metal detection and accurate discrimination. Ground balancing is a process through which the metal detector is able to cancel out the negative effects caused by ground mineralization.

To ground balance, holding the search coil 5cm. above the ground, sweep it right and left, keeping it parallel to the ground and slowly turn the ground balance knob clockwise until the noise is gone and the device is silent. If you cannot ground balance the detector, gradually decrease the sensitivity and repeat the above steps.

For maximum depth, do not turn the ground balance knob to the right more than necessary. Generally speaking, the mid-level (between 4 - 7) offers the most ideal and stable detection capability on different types of ground without sacrificing depth.

As the ground balance goes into the right area, the device will start losing depth for some non-ferrous metals except for gold. When the ground balance setting reaches the maximum point the device will detect iron and gold but it will not detect some non-ferrous metals.

If you are searching on a ground loaded with mineralized stones or dips and holes, it is recommended to ground balance over one of these stones or the holes.

In areas of very high mineralization, ground balance may not be sufficient. In such a case, you may need to use the "Search2" mode (see page 16).

SENSITIVITY (HASSASİYET)



Sensitivity setting is used to eliminate interferences caused by electromagnetic waves in the surrounding environment or ground noise. Electromagnetic waves may result from power lines in the surrounding environment or from the operation of electrical devices, radars, wireless radios, and even TVs.

Sensitivity is also the depth setting for the device. Therefore, especially in high mineralization, it is recommended that you lower it only if the device is still getting noise after you adjust all the other settings (ground balance, iron audio and search modes).

IRON AUDIO (DEMİR SESİ)



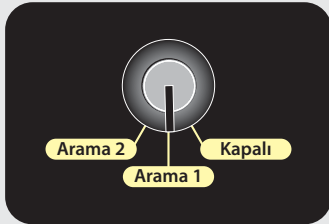
This setting is active in "Search 2" mode only, it cannot be used in "Search 1".

You can use the iron audio when you want to avoid detecting ferrous metals. It also enables metals containing iron to produce a low tone and to be discriminated more easily. At level 1, the device will not produce a warning tone when it detects ferrous metals. As iron audio is turned to the right, the device will start producing a low tone for ferrous metals.

Iron audio can also be used to eliminate false signals caused by iron mineralization (see page 16).

NOTE: Many metals considered to be trash may not produce a ferrous metal signal. For example, pull tabs may be sensed as a non-ferrous metal by most detectors because their signal is very similar to that of gold.

SEARCH MODES



Search 1 (Arama 1): This is the deepest mode of the device. The device will not discriminate metals in this mode. It will produce one warning tone for all metals. **Search 2 (Arama 2):** In this mode, the device will produce different tones based on metal type. Depths in this mode may vary compared to "Search 1" mode.

The device has 3 tone audio discrimination. The lower tone is for ferrous metals. For non-ferrous metals and gold, the device produces 2 very similar high tones. In case of alloy detection the device may produce a high-low double-tone sound. In order to get familiar with the different tones of your device, it is recommended that you practice with different types of metals and identify the sounds before you use it out in the field.

NOTE: Discrimination, just like in any other metal detector, may not always be 100% accurate. There are many different factors affecting discrimination accuracy. All metals based on their conductivity, shape, orientation underground, depth and ground mineralization are sensed differently by a detector. Oxidized metals buried under ground for a long time such as tinplates and tins may produce gold like signals. Following the experienced metal detector users' rule of thumb "when in doubt, dig" is the right thing to do.

If you are searching on high mineralized ground (extremely salty soil, wet beach sand, wet plowed land etc.) you may not be able to ground balance the device. In such a case, using the "Search 2" mode and turning the "Iron Audio" to level 1 is recommended. This will eliminate the noise and false signals caused by mineralization.

So how will you decide whether the ground you're on has iron mineralization or not? If you cannot ground balance the device and the device is constantly producing a low ferrous tone when the iron audio is above level 5, we can say that the ground is iron mineralized.

IMPORTANT! When the iron audio is at level 1, the device will not produce a warning tone for ferrous metals. So if you are searching for ferrous metals, first turn the iron audio to maximum level. Then gradually lower it until the iron tone coming from the ground is not heard. This will enable you to detect ferrous metals while eliminating the iron signals coming from the ground.

SEARCHING AND METAL DETECTION

SEARCHING AND METAL DETECTION



After the settings are adjusted, you can start searching by lifting the search coil 5cm. above the ground and sweeping it right and left, keeping it parallel to the ground.

The device operates on the principle of motion. This means that you must move the search coil over the target or the target over the search coil, in order for the device to see it. In other words, metal detection is not possible without moving the search coil.

To avoid missing smaller and deeper targets, sweep the search coil both from right to left and left to right over each area you are scanning, slightly overlapping the sweeps as you move forward.

When the device detects metal, it will produce an audible tone.

Operating Principle: Induction Balance

Operating Frequency: 17.5 KHz

Metal Identification: Audio warning

Audio Discrimination: 3 tones

Sensitivity Setting: Manual

Ground Balance: Manual

Search Coil: 23cm (9") waterproof Double-D

Battery: 8 AA Alkaline

Headphone Output: 6,5mm.

Length: 125-145cm (49"- 57") extendable

Weight: 1.8kg (4 lbs) including the search coil

Warranty: 2 years

Nokta Detectors reserves the right to change the design, specifications or accessories without notice and without any obligation or liability whatsoever.



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