

# *The* **LEGEND**2

High-Performance Metal Detector!

# USER MANUAL



## READ CAREFULLY BEFORE OPERATION OF THE DEVICE!

### LEGAL DISCLAIMERS

Comply with applicable laws and regulations governing use of metal detectors while using this detector. Do not use the detector without authorization in protected or archeological sites. Do not use this detector around unexploded ordnance or in restricted military zones without authorization. Notify appropriate authorities with details of any historical or culturally significant artifacts you find.

### WARNINGS

The LEGEND 2 is a state-of-the-art electronic device. Do not assemble or operate the device before reading the user manual.

Do not store the device and search coil under extremely low or high temperatures for extended periods. (Storage Temperature: - 20°C to +45°C / - 4°F to +113°F)

The device features an IP68 waterproof rating, allowing submersion up to 5 meters (16 ft), excluding the Bluetooth® headphones.

Pay attention to the items below after using the device especially under salty water:

1. Rinse the system box, shaft, and coil with tap water, making sure all saltwater is fully removed from the connectors.
2. Do not use any chemicals for cleaning and/or for any other purposes.
3. Wipe the screen and the shaft dry with a soft, non-scratch cloth.

Protect the detector from impact during use. When shipping, place it in the original carton and secure it with shock-resistant packaging.

The LEGEND 2 metal detector may only be disassembled and repaired by Nokta Authorized Service Centers. Unauthorized disassembly/intrusion into the metal detector control housing for any reason voids the warranty.

### IMPORTANT!

Do not use the device indoors, where surrounding metals may cause continuous target signals. Use only in open outdoor areas.

Keep other detectors and electromagnetic devices a minimum of 10 m (30 ft) from the device.

Do not carry any metal objects while using the device. Keep the device away from your shoes while walking. Metal on your body or inside your shoes may be detected as targets.

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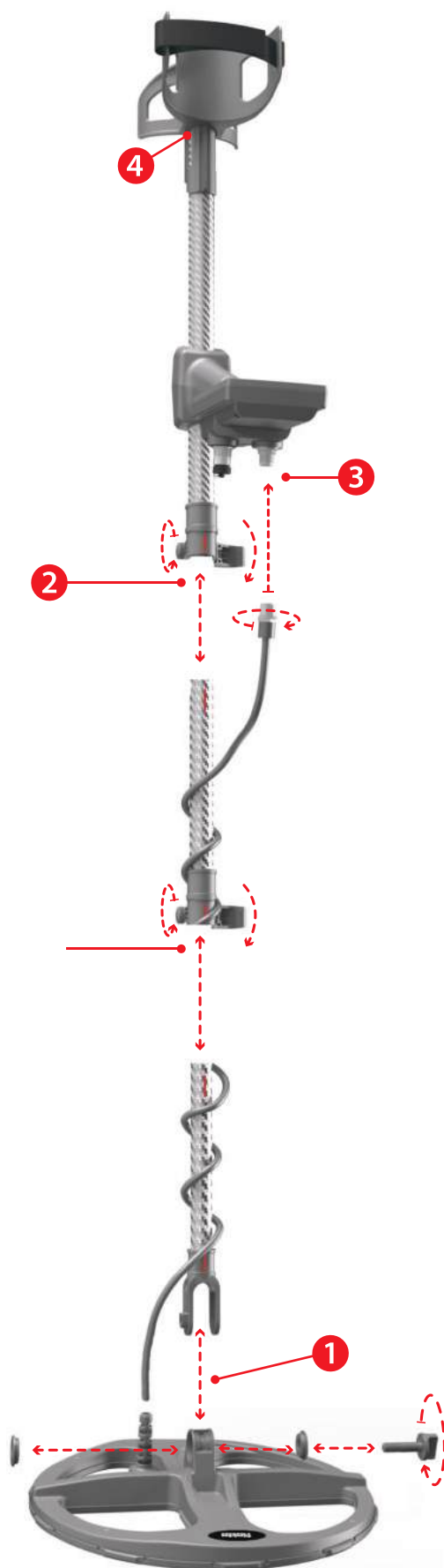
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## ASSEMBLY

**1** After inserting the washers onto the lower shaft, attach the lower shaft to the search coil and secure it by tightening the screw. Do not overtighten.

**2** Open the lever latches to connect the middle shaft to the upper and lower shafts. Adjust the length to your height, tighten the side screws, and close the latches to secure.

**IMPORTANT!** During assembly, make sure that the red lines on the shafts are aligned to overlap, as shown in below.



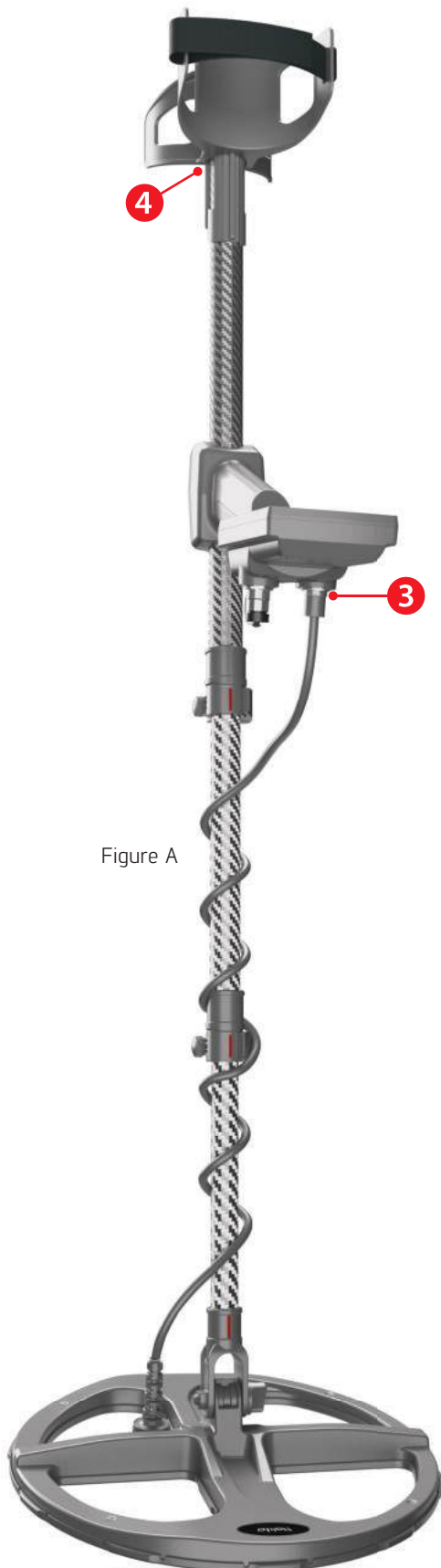


Figure A

- 3 Wind the search coil cable around the shaft without overstretching (Figure A), then plug the connector into the search coil input socket on the system box (Figure B) and secure it by tightening the nut until you hear clicks.

Figure B:



- 4 If you want to adjust the armrest, open the latch. Once it reaches your desired height, close the latch to secure it. (Figure C)

Figure C:



Attach the armrest strap as shown in the picture (Figure D) and tighten it according to the width of your arm.

Figure D:





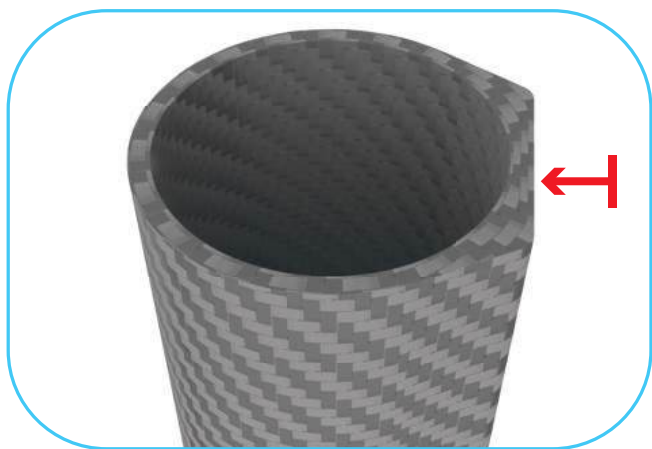
**IMPORTANT!** When the red lines on the shafts are aligned and the shafts are set to their shortest position, the search coil becomes rotatable. By rotating and folding the search coil, you can place the detector in a compact carrying position.

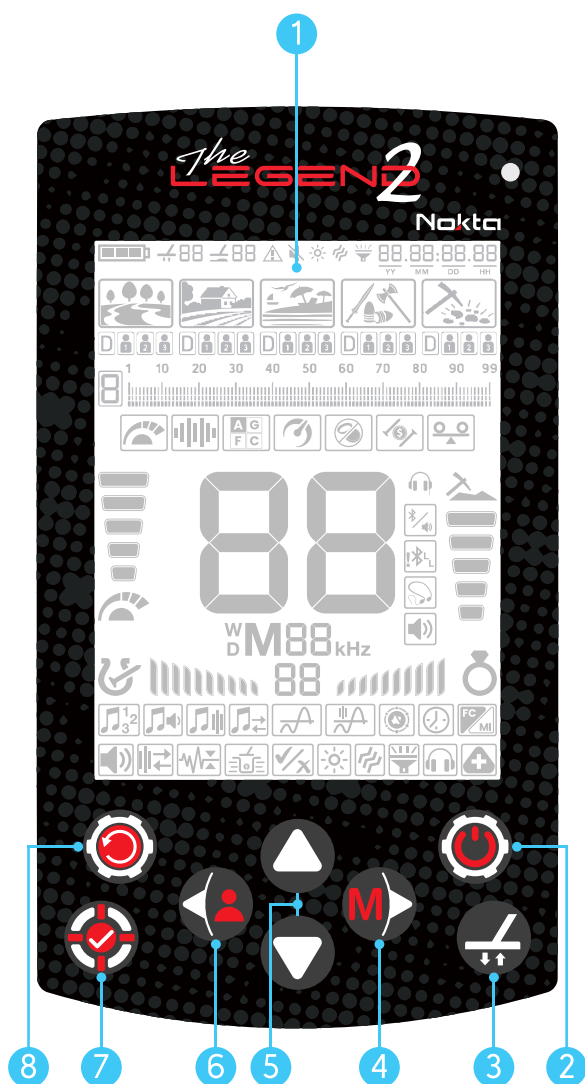
**IMPORTANT!** To prepare the detector for use from the compact position, the system box and the search coil must be aligned in the same direction, and the red lines on the shafts must be fully aligned. Otherwise, the shafts cannot be extended.

**IMPORTANT!** The flat section on the rear of the detector shafts ensures a tight fit.



**IMPORTANT!** The red lines on the rear of the shafts indicate the maximum length to which the shafts can be extended. Do not exceed this limit.





## INTRODUCTION TO THE DEVICE

### 1. LCD Screen

### 2. Power / Settings Button

Press and hold the Power / Settings button for 2 seconds to turn the device on. Press once to enter or exit settings. To turn the device off, press and hold the Power / Settings button.

**Note :** While in settings, pressing and holding the Power / Settings button will not turn the device off.

### 3. Ground Balance Button

Press the Ground Balance button once to enter or exit the ground balance menu. Press and hold the Ground Balance button to perform automatic ground balancing.

### 4. Right Button

On the main screen, the Right button navigates between modes, while in the settings menu, it navigates through the settings options.

### 5. Up and Down Buttons

Use the Up and Down buttons to adjust the selected quick setting on the main screen or to change any setting value in the settings menu.

### 6. Left Button

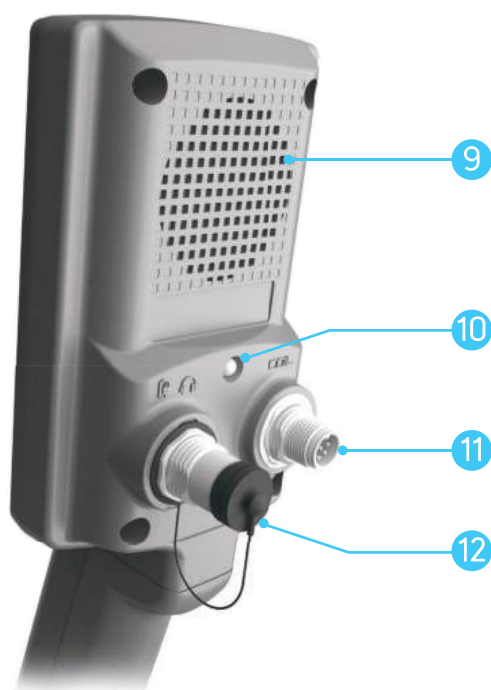
On the main screen, use the Left button to switch between user profiles. Press and hold to save or delete a profile. In the settings menu, use it to navigate between options.

### 7. Pinpoint & Accept/Reject Button

On the main screen, the Pinpoint & Accept/Reject button activates the Pinpoint mode. Press once to enter or exit Pinpoint. Functions of this button in other settings are described in their respective sections.

### 8. Quick Settings / Mute Button

On the main screen, press the Quick Settings / Mute button briefly to enter or exit Quick Settings. Press and hold to mute or unmute the device.



### 9. Speaker

### 10. LED Flashlight

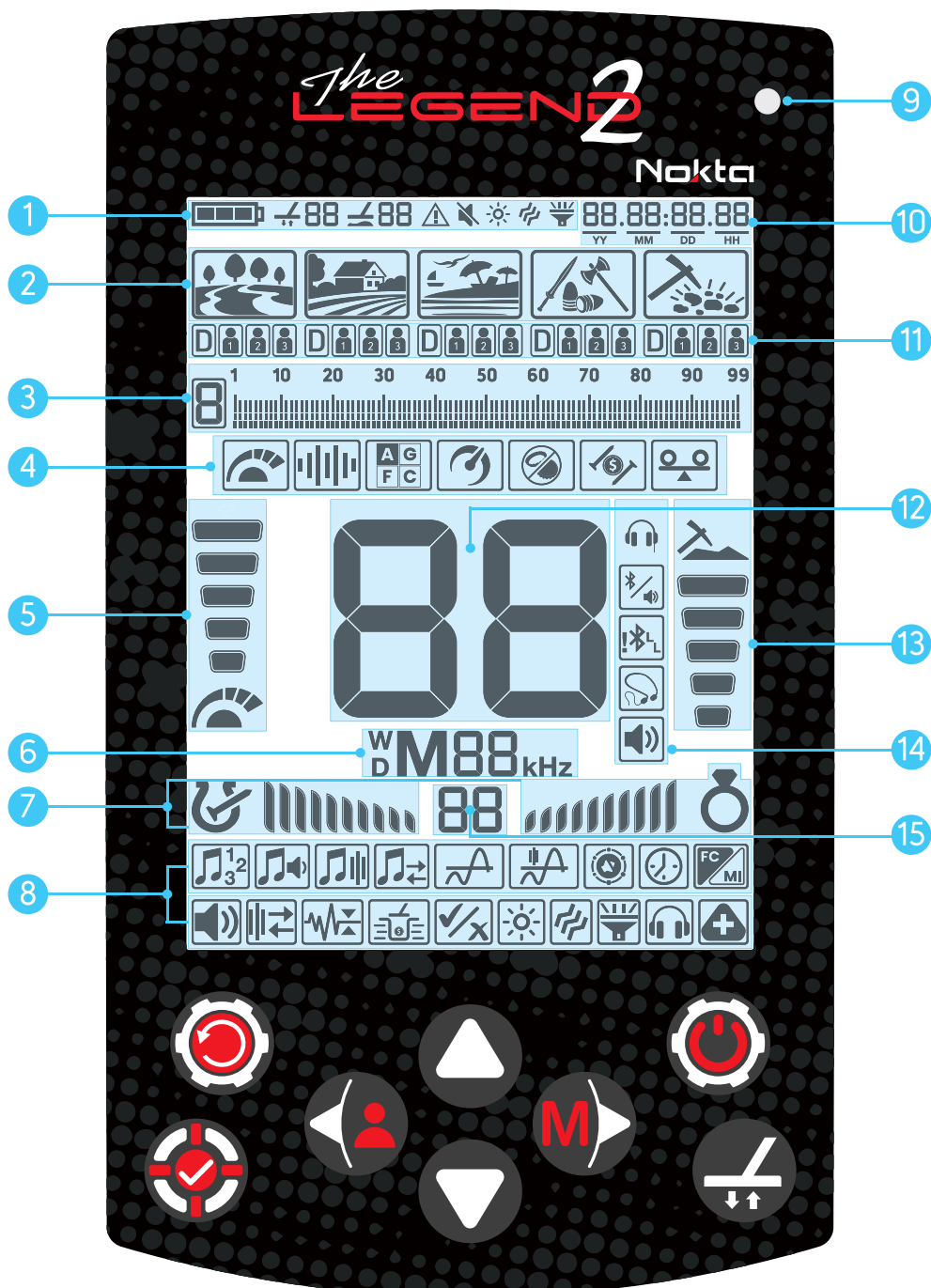
### 11. Search Coil Input Socket

### 12. Wired Headphones, Bone Conduction Headphones and Charging Input Socket

**IMPORTANT!** Always keep the socket closed with the screw cap when no headphones or charging cable are connected.

## DISPLAY

1. Info Bar
2. Search Modes
3. Target ID Scale and Discrimination Pattern
4. Quick Settings
5. Sensitivity Indicator
6. Operating Frequency
7. FerroCheck™ Bar
8. Settings
9. Charging LED
10. Clock and Usage Duration
11. User Profiles
12. Target ID
13. Depth Indicator
14. Audio Options
15. Auxiliary Indicator



## BATTERY INFORMATION

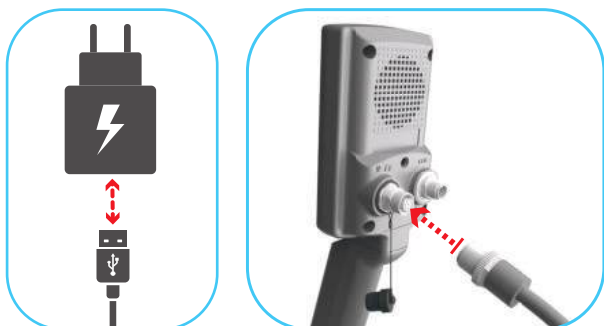
The LEGEND 2 has an internal 6700 mAh Lithium-ion battery.

Battery runtime varies between 8-20 hours. Factors such as operating frequency, usage of speaker or wired/wireless headphones, display backlight, LED flashlight etc. will affect battery runtime.

### Charging

Charge The LEGEND 2 before initial use. Charging an empty battery will take approximately 5-6 hours.

To charge the battery, insert one of the ends of the cable supplied with the device to the wired headphones / charger input socket and the other end to the charging adapter.



Use a standard 5V 2A (minimum) USB power adapter to charge the device. Charging via a PC USB port may take longer.

### Low Battery Level

The battery icon on the display indicates the battery level. As the charge decreases, the bars inside the icon decrease accordingly. When the battery is depleted, 'Lo' appears on the display and the device powers off.



### BATTERY WARNINGS

Do not expose the device to extreme temperatures (for example a car's trunk or glove compartment).

Do not charge the battery in temperatures over 35° C (95° F) or below 0° C (32° F).

The LEGEND 2 battery can only be replaced by Nokta Detectors or its authorized service centers.

### WATERPROOF REPLACEABLE SPARE BATTERY

This optional battery, sold separately, can replace the internal Li-Ion battery when it is depleted and you are unable to recharge it.

You can attach the spare battery easily as shown in the picture.



When you are using the spare battery, you cannot plug any wired headphones to the device.

You can charge the spare battery easily using the charger it comes with.



### Operating with a Powerbank

You can also power and charge the battery with a powerbank. To do this, just insert one of the ends of the cable supplied with the charger to the wired headphones / charger input socket and the other end to the powerbank. Please note that you will not be able to attach wired headphones to the device when a powerbank is attached to the device.

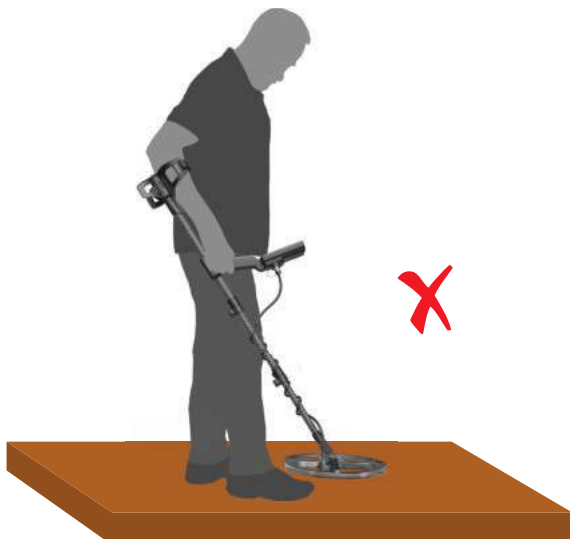
**IMPORTANT!** Do NOT use the detector underwater while connected to a powerbank.

## CORRECT USE

### Shaft height is wrong

Adjust the shaft to your height to ensure comfortable use and reduce fatigue during searching.

While detecting, the device may detect false signals from metal objects you carry or from shoes containing metal.



### 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 5 cm (~2") above the ground.

While detecting, the device will not detect false signals from metal objects you carry or from shoes containing metal.



## CORRECT WAY OF SWEEPING

### Wrong search coil angle

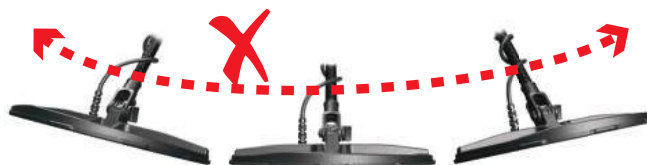


### Correct search coil angle



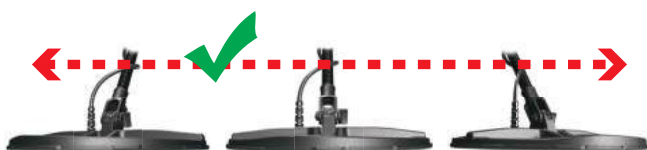
### Incorrect way of sweeping

It is important to keep the search coil parallel to the ground in order to get accurate results.



### Correct way of sweeping

The search coil must be parallel to the ground at all times.

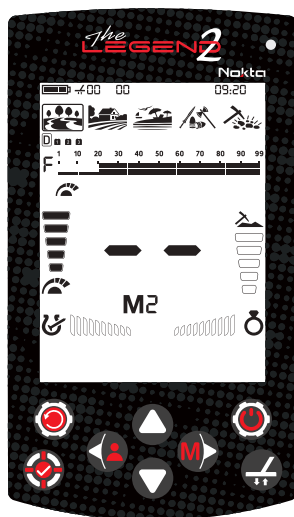


## QUICK GUIDE

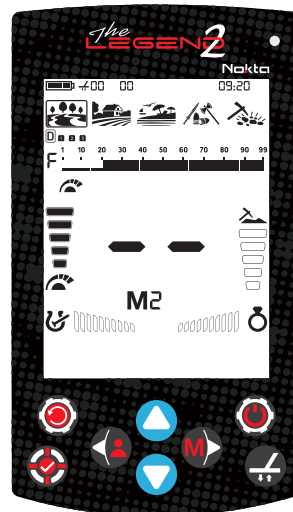
1. Assemble the device as per the instructions on page 3-6.
2. Press and hold the Power / Settings button for 2 seconds to turn on the device. The loading message 'L2' will appear on the screen, and the software version will be displayed in the upper-right corner.



3. When the device is turned on, it will start in the Park mode and in Multi frequency. You can change the mode based on ground conditions. You can find more details on search modes and frequencies further in this manual.



4. You can increase the selected quick setting, which is the sensitivity setting, if needed. Increasing the sensitivity will offer you greater depth. However, if the surroundings or the ground cause excessive noise in the device, you need to lower the sensitivity setting.



5. You can start detecting!

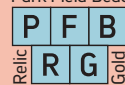
## COMMON AND MODE-BASED SETTINGS

Certain settings are common to all modes; changes in these settings will take effect in all modes.

Most of the settings are mode based and they only affect the mode currently selected; changes made in one mode do not affect the others.

Common settings and mode-based settings are marked as below throughout the manual:

Park Field Beach



Common Settings



Sensitivity



Volume



Backlight



Vibration



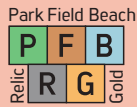
FerroCheck™ / Mineralization Indicator



Bluetooth®



LED Flashlight



## Mode-Based Settings



Ground Balance



Custom Discrimination Mode



Frequency



Recovery Speed



Bottle Cap Rejection /  
Iron Rejection in Relic Mode



Iron Filter



Stability in Beach Mode



Frequency Shift



Ground Suppressor



Deep Target Identification



Number of Tones



Tone Volume



Tone Frequency



Tone Break



Threshold Level



Threshold Frequency



Audio Gain



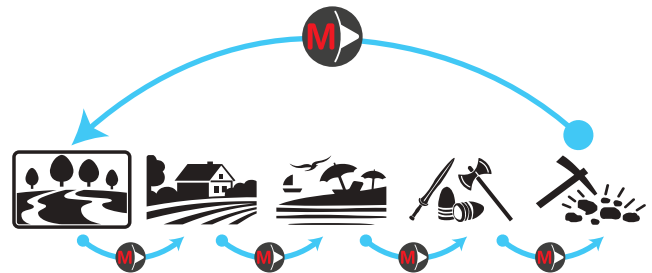
Notch (Accepting and Rejecting IDs)

## SEARCH MODES

The LEGEND 2 has 5 search modes designed for different terrains and targets.

### Navigating Through Search Modes

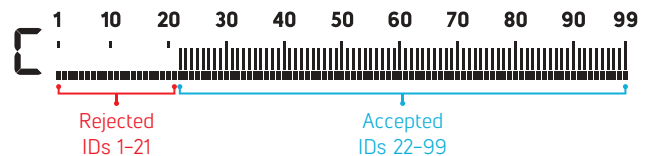
During the search, you can switch between modes on the main screen using the Right button. The selected mode will be shown within a frame.



### PARK

Designed for coin and jewelry hunting in urban areas and parks where there are lots of modern trash (aluminum foil, pull-tabs, bottle caps etc.) present.

This mode is optimized for detecting medium and large coins and jewelry. In the factory default setting, the custom discrimination pattern excludes many targets, such as iron and aluminum foil. Target IDs on the ID scale, including 21, are set to "off" to allow searching without detecting these targets.



Aluminum foil typically generates a Target ID of 21. However, depending on the shape, its ID can go up to 34.

All single frequencies as well as Multi frequency can be used in this mode. Based on target type, you can choose the frequency you want. Multi frequency in Park mode will allow for maximum depth and separation. Thus, a slight noise can be experienced.

The Park mode is set to Recovery Speed 5 and 2 tones by default. You can change the Recovery Speed as well as the number of tones manually if needed.

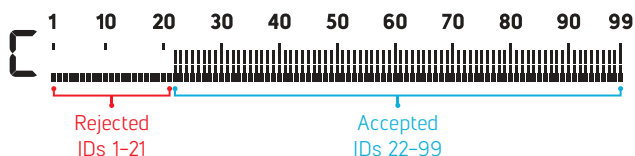
The FerroCheck™ bar on the screen shows the ferrous/non-ferrous ratio of the target and thus plays an important role in identifying trash metals. Therefore, when a target is detected while in Park mode, the FerroCheck™ bar should be observed in addition to the Target ID.



## FIELD

Recommended for coin and relic hunting in pasture and cropped/plowed fields.

In these areas, iron-containing debris and coke fragments are commonly found. To make it easier to detect coins and relics among such debris, the Target ID scale in the custom discrimination pattern is set to "off," including 21, in the factory default settings.



In this mode, all single and multi frequencies operate. When Multi frequency is selected, the device provides maximum depth and discrimination capability. The Field mode comes from the factory preset with a Detection Speed of 5 and a Target Tone Count of 2.

In Field mode, the first tone break point is 21 for all tone options. In Park mode, the first tone break point is 20 for all tone options.

The ID resolution of IDs 21-25 is different in Park versus the Field mode. You may get a different ID in each mode for targets that fall within this ID range.

Park and Field modes offer 3 different Multi frequencies as Multi-1 (M1), Multi-2 (M2) and Multi-3 (M3). For details, please refer to the Frequency section.

In Park and Field mode, different algorithms are used. On trashy sites, M3 Multi-Frequency is recommended. When a target is isolated underground, the ID will be the same in both modes. However, if the target is next to trash, such as aluminum foil, Multi 3 in Park mode will provide a more accurate ID.



## BEACH

This mode is optimized for use on dry or wet beach sand and for underwater use up to 5 m (16 ft).

Salt in beach sand and seawater makes the ground and water highly conductive, generating noise and false signals. Single-frequency detectors cannot operate effectively in these conditions, while multi frequency detectors reduce noise and provide maximum performance.

For these reasons, single frequencies cannot be used in the Beach mode. When Beach mode is selected, the device automatically switches to Multi frequency and single frequencies cannot be selected. In this mode only, the Multi frequency has 2 options: Wet sand/underwater (MW) or dry sand with very low salinity (MD). When you change the frequency in Beach mode, you switch between MW and MD.

If the sand you are detecting on is dry but has high salinity, use the MW option. To determine salinity, move the search coil over the sand in All Metal Discrimination Pattern (see Discrimination Patterns) and check the ID of the sand. If the ID is higher than 4, select MW instead of MD. You can also enable the mineralization indicator to measure the salinity of the search area.

The ground balance and ID stability has been optimized for different conditions and will vary for each option. In wet beach sand, MW Multi frequency will generate accurate IDs but if you switch to MD, the IDs may be wrong. Similarly, in dry sand with low salinity, you can ground balance the detector in MD but if you switch to MW, you may not be able to ground balance.

The Beach mode is set to Recovery Speed 6 and 2 tones by default.

## Black Sand

Some beaches are covered with black sand which contains natural iron. These types of beaches make metal detection almost impossible. Beach mode senses black sand automatically and displays a warning icon on the top of the screen in the Info Bar.



**IMPORTANT!** After submerging the device underwater and taking it out, water may enter the speaker cover, causing muffled audio. This is normal. Gently shake the device to remove the water from the speaker cover, and the audio will return to normal.



## RELIC MODE

Very deep targets may have values close to the surrounding soil and therefore may not be detected. Relic mode allows you to detect targets at depths that cannot be detected in other modes.

This mode resets the ground balance of the soil, allowing the detector to detect deep coins and large masses. However, in this mode, targets at the limit of detection may not provide an ID or their IDs may be unstable.

Ground balancing is very important in Relic mode. To use Relic mode most efficiently, perform ground balancing first when the mode is selected. In addition, a second ground balance feature is available only in Relic mode. After performing the initial ground balance, you can eliminate the effect of mineralized stones, referred to as hot rocks, in the search area by using the second ground balance on those stones.

Relic mode provides high performance on some beaches. As with other terrains, it is recommended to use the All Metal Discrimination Pattern when searching on the beach. Signals with IDs 20 or 99 may originate from the beach in the area you are detecting. By disabling these IDs using the ID Notch (ID Reject) feature, Relic mode can be used on the beach without interference.

The Relic mode comes factory-set with a Detection Speed of 5 and a Target Tone Number of 1.

In this mode, tone options have been removed. The audio frequency changes proportionally to the signal strength. Additionally, by enabling the Iron Bias feature, you can distinguish iron-containing targets that are close to the ground surface (see Iron Bias Feature in Relic Mode).



## GOLD

This mode is optimized for use on mineralized goldfields.

In this mode, the factory setting includes an audible threshold tone. The volume and the frequency of the audio alert emitted when a target is detected, varies proportionally to the strength of the target signal. Gold mode is ideal for detecting shallow and small gold nuggets as well as deeper larger nuggets in mineralized ground.

You can only use the higher single frequencies (20 kHz and 40 kHz) and the Multi frequency in this mode. In highly mineralized ground, detectors receive a lot of false signals. In addition, there are mineralized rocks –commonly referred to as hot rocks– present in goldfields. Therefore, Multi frequency in this mode offers convenient detection by minimizing the effects of these mineralized rocks and ground.

The Gold mode is set to Recovery Speed 5 and 1 tone by default.

## USER PROFILE



The LEGEND 2, offers the ability to save the settings you make during searching to three different user profiles in each mode. User profiles are available separately for each search mode.

This is a great feature for users to preserve their optimized settings. They can easily and quickly reuse the saved settings later on.

### User Profile Menu



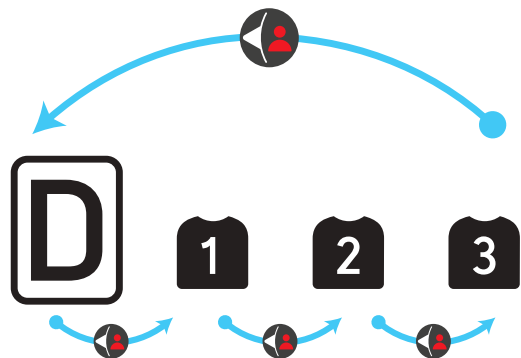
The User Profiles of the search mode are displayed in the section below the search mode.

All user profiles have the default settings of The LEGEND 2.

The Default (D) User Profile is preselected.

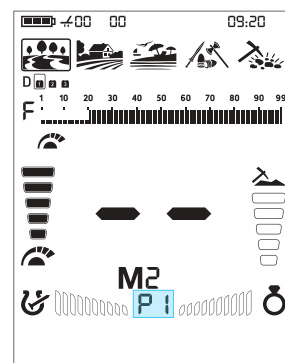
The D User Profile automatically saves the changes made by the user. Since the automatic save feature is predefined, users cannot manually save settings to this profile. If desired, the automatically saved settings can be restored to factory defaults by performing the "Clear Profile" operation.

### Changing the Active User Profile



You can change the Active User Profile on the main screen by pressing the Left button once. The Active User Profile is framed.

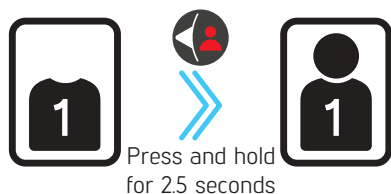
When the profile is changed, the selected profile information is also displayed in the Auxiliary Indicator. This text is automatically cleared after a short time.



### Saving a User Profile

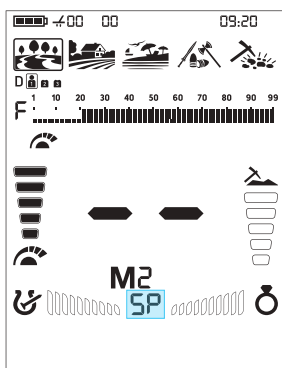
If you want to preserve the settings you used after searching in a specific area, you can save these settings to any User Profile.

1. After selecting a user profile in the User Profile menu, press and hold the Left button for 2.5 seconds to save your settings to the selected profile.



After the profile is saved, a head icon appears inside the User Profile icon.

Along with the head icon, the text SP (Save Profile) is displayed in the Auxiliary Indicator.

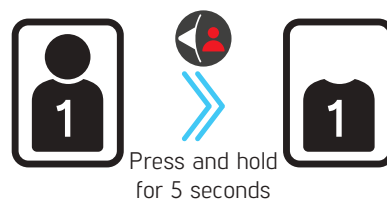


If the profile has been saved previously, the coil icon is already displayed. When a new save is made over the existing profile, the SP letters shown in the Auxiliary Indicator mean that the overwrite has been completed successfully.

**IMPORTANT!** Common settings are saved automatically. User Profiles save mode-specific preferences.

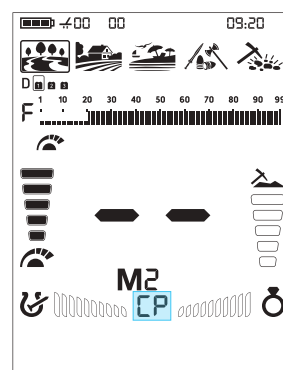
### Clearing the User Profile

1. In the User Profile menu, use the Left button to select the saved profile you want to clear.



2. Clear the user profile by pressing and holding the Left button for 5 seconds. The head icon in the user profile will disappear.

To clear the profile, press and hold the Left directional button. After 2.5 seconds, the SP letters are displayed in the Auxiliary Indicator. If you continue holding the button without releasing it, the CP (Clear Profile) letters appear after 5 seconds. The disappearance of the coil icon together with the CP letters indicate that the profile has been erased. You can then release the button.

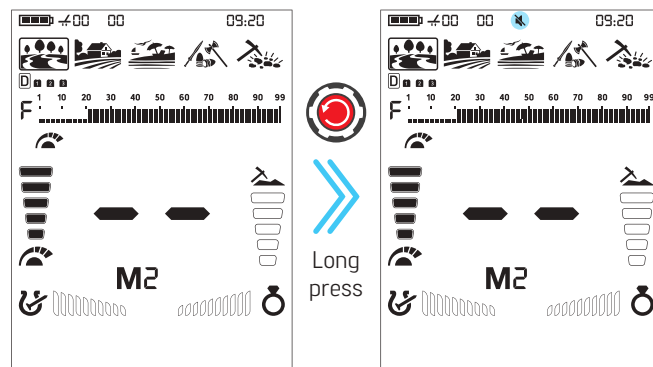


You can save your favorite settings for different targets and sites with the user profile in each mode, allowing you to create a total of 15 different detector setting sets across all modes.

### MUTE FUNCTION

On the main screen, press and hold the Quick Settings button to mute the device.

The mute icon will appear in the Info Bar at the top. You can turn the sound on by pressing and holding the Quick Settings button.



**IMPORTANT!** When the volume level is set to 0, the muted icon is also displayed.

