

AURIX 700

USER MANUAL

ENGLISH



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ASSEMBLY

Prepare your detector for use.



1 Attach the search coil

Insert the lower shaft into the search coil mounting bracket. Align the holes, insert the bolt and fit the nut. Tighten it enough to allow the coil angle to be adjusted; do not overtighten.

2 Adjust the shaft length

Open the shaft locks. Extend the telescopic shaft to a comfortable length for your height, then close the locks. Check that the shaft sections do not slip and that all connections are secure.

3 Connect the search coil cable

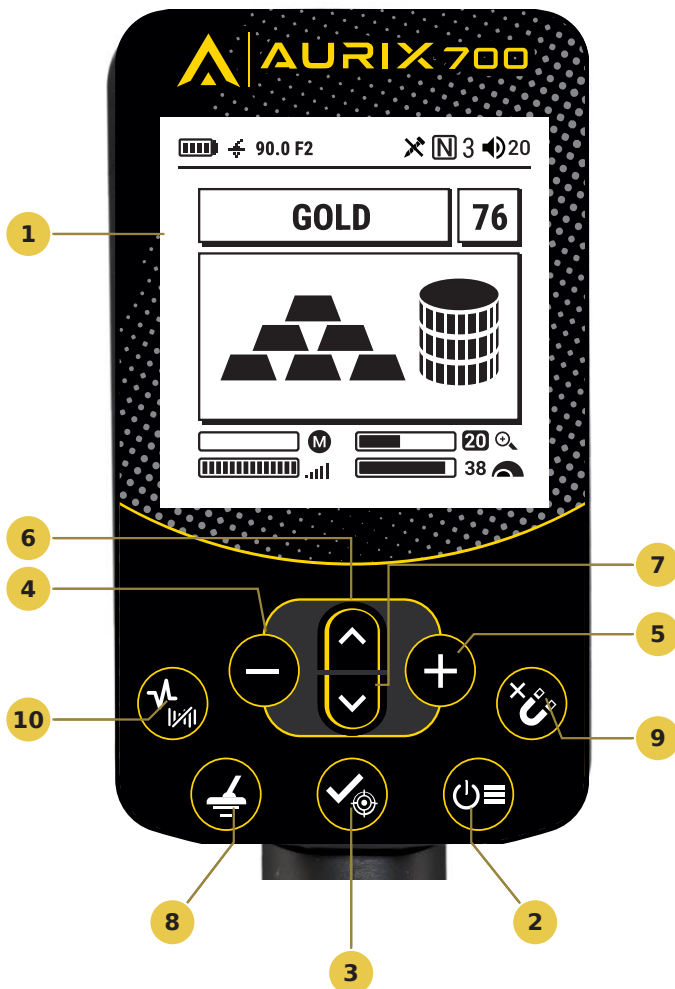
Wrap the cable around the shaft without pulling it too tight. Leave sufficient slack for coil movement. Align the cable connector with the coil socket on the control unit, insert it and hand-tighten the locking nut.

4 Adjust the armrest strap

Place your forearm in the armrest. Adjust the strap so you can control the detector comfortably without restricting your arm. Check all connections before use.

DEVICE OVERVIEW

Control panel, buttons and connections



REAR PANEL



1 LCD screen

Displays target information, selected settings and detector status.

2 Power / Menu

Turns the detector on or off and provides access to the settings menu.

3 Pinpoint / Confirm

Pinpoints the target location and confirms menu selections.

4 Minus (-)

Decreases sensitivity or the value of the selected setting.

5 Plus (+)

Increases sensitivity or the value of the selected setting.

6 Up

Moves upward through modes and menu options.

7 Down

Moves downward through modes and menu options.

8 Ground Balance

Used to perform the ground balance procedure.

9 Iron Reject

Controls the Iron Reject function.

10 Frequency Shift / Noise Cancellation

Press and release to change the Frequency Shift setting.

Press and hold for 2 seconds, then release, to start Noise Cancellation. The detector automatically scans the channels, selects the most suitable channel and remains on it.

11 Speaker

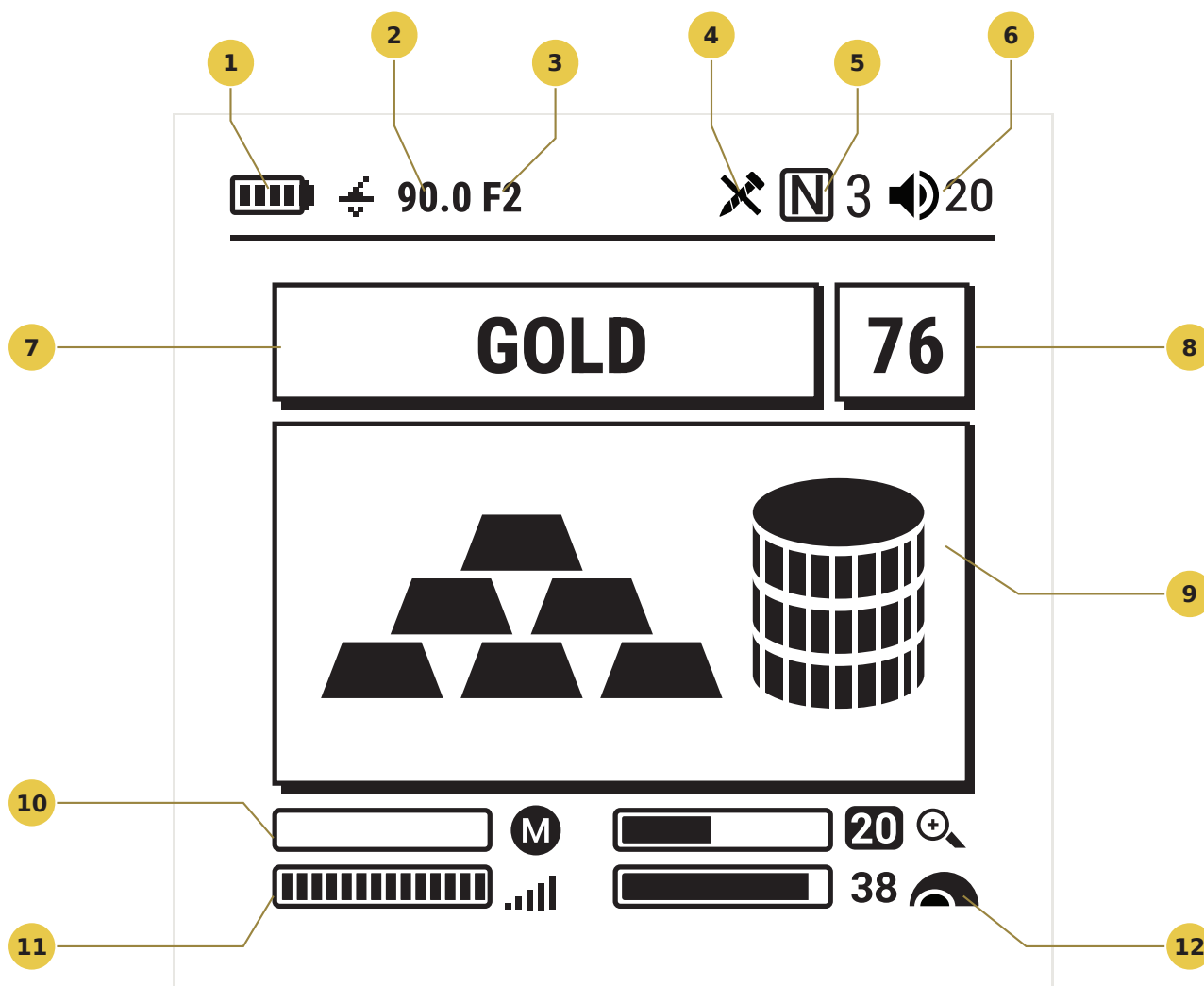
Outputs target tones and audible alerts.

12 Search coil socket

Connection socket for the search coil cable.

SCREEN OVERVIEW

Indicators on the ICON screen



INDICATORS

- | | |
|------------------------------|------------------------------|
| 1 Battery level | 7 Discrimination information |
| 2 Ground Balance value | 8 Target ID |
| 3 Frequency indicator | 9 Target type icons |
| 4 Iron Reject indicator | 10 Magnetic mineralization |
| 5 Noise Cancellation channel | 11 Signal strength |
| 6 Volume level | 12 Sensitivity |

BATTERY INFORMATION

The Aurix 700 is powered by an internal lithium-polymer battery. Operating time varies according to the active features and settings. Functions such as vibration and screen backlighting affect battery life.

BATTERY

Internal

Lithium-polymer

CHARGING TIME

Approx. 6 hours

Full charge

CHARGING TEMPERATURE

0-35 °C

Recommended range

CHARGING

- 1 Charge the detector before first use.
- 2 Connect the USB end of the supplied cable to a suitable USB power adapter.
- 3 Connect the other end of the cable to the detector charging port.

USING A POWER BANK

When the battery is depleted, you can operate the detector from a power bank while charging the battery.

Connect the USB end of the cable to the power bank and the other end to the detector charging port.

BATTERY LEVEL

The battery icon on the screen indicates the remaining charge. As the battery level drops, the number of bars inside the icon decreases. Charge the detector when the level is low.



High level



Medium level



Low level

BATTERY WARNINGS

Do not leave the detector in extremely hot or cold environments. Only charge the battery within a temperature range of 0-35 °C. Contact an authorized FX Technology service centre for battery replacement.

HEADPHONE INFORMATION

Using wireless headphones with the optional Bluetooth module

OPTIONAL BLUETOOTH MODULE

The Aurix 700 has no wired headphone jack and does not support wired headphones. The standard version does not include a Bluetooth module. Wireless headphones can be used with a version equipped with the optional Bluetooth module, available at additional cost. The following procedures apply to that version.

PAIRING AND CONNECTION

1 Turn on Bluetooth

Press the Menu button. Use the direction buttons to select **Bluetooth**, then press Confirm. Select **On** to enable Bluetooth.

2 Search for your headphones

Put the headphones into pairing mode according to their user manual. Select **Search** in the Bluetooth menu and press Confirm. The detected devices will be listed.

3 Connect to the headphones

Use the direction buttons to select the headphones from the list, then press Confirm. Once connected, the headphone name appears under **Connected Device**.

4 Pair different headphones

To remove the current pairing, select **Forget** and press Confirm. Put the new headphones into pairing mode, repeat **Search** and select them from the list.

VOLUME SETTING

Use the **Audio** option in the Bluetooth menu to adjust the wireless headphone volume.

RECONNECTION

When Bluetooth is enabled, the detector attempts to connect to nearby previously paired headphones. If it does not connect, make sure the headphones are switched on and perform another search.

CORRECT USE

Comfortable posture, correct coil angle and a balanced sweep

ADJUST THE SHAFT LENGTH TO YOUR HEIGHT

Adjust the shaft length so that your body remains upright, your arm is relaxed and the search coil is approximately 5 cm above the ground. You should not need to lean forward or overextend your arm while searching.

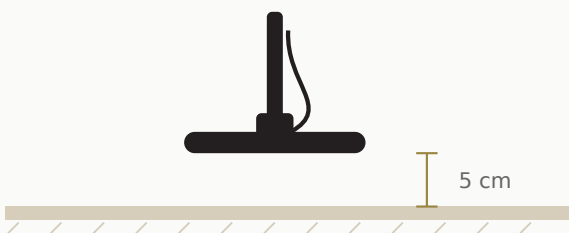
UPRIGHT POSTURE

RELAXED ARM

APPROX. 5 cm

KEEP THE SEARCH COIL PARALLEL TO THE GROUND

 **CORRECT**



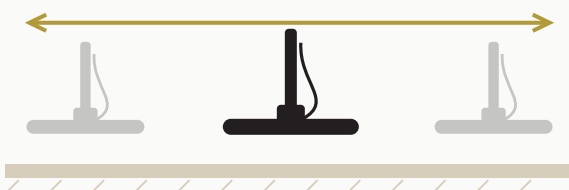
 **INCORRECT**



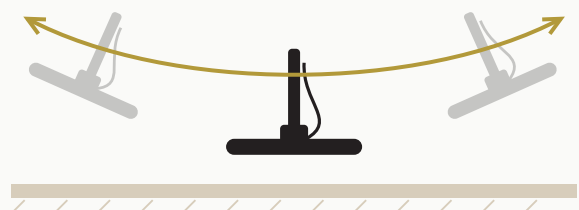
Keep the search coil parallel to the ground. Do not allow either edge of the coil to rise or touch the ground.

MAINTAIN THE COIL HEIGHT THROUGHOUT THE SWEEP

 **CORRECT**



 **INCORRECT**



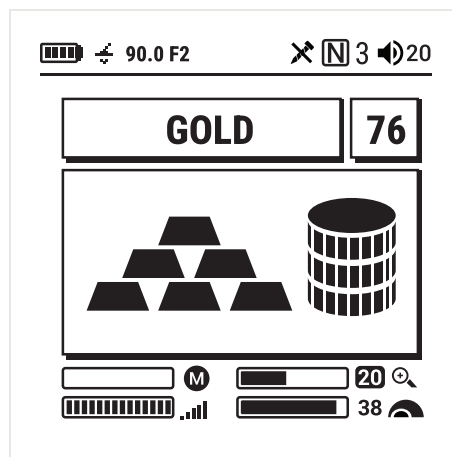
Maintain the same distance from the ground as you sweep the coil from side to side. Do not raise the coil at the ends of the sweep.

QUICK START

Basic steps for your first search



Startup screen



ICON display

1 Prepare the detector

Complete the assembly, check all connections and adjust the shaft to your height. Charge the battery before first use.

2 Turn on the detector

Press and hold the **Power / Menu** button to turn on the detector. After the startup screen, wait for the search screen to appear.

3 Select the search mode

Select the mode suited to your search environment: **Field** or **Park**. See the Search Modes section for details.

4 Adjust the sensitivity

Use the **Plus (+)** and **Minus (-)** buttons to adjust Sensitivity. Reduce it if the detector becomes unstable or produces excessive noise.

5 Run Noise Cancellation when necessary

Press and hold the **Frequency Shift / Noise Cancellation** button for **2 seconds**, then release it. The detector automatically scans the channels and selects the most suitable one.

6 Start searching

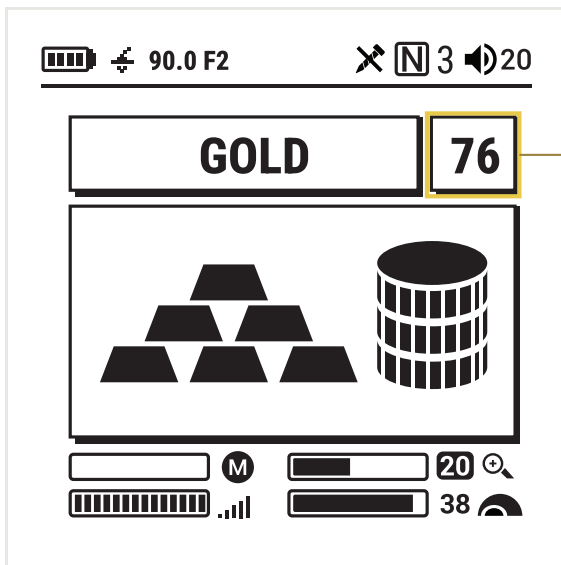
Keep the coil parallel to the ground and approximately **5 cm** above it while sweeping from side to side. Test different metals to learn the tones, Discrimination information and Target ID indications.

ELIMINATING UNWANTED TARGETS

Use the **Iron Reject** button to eliminate iron targets. Use the **ID Accept / Reject** setting in the menu to eliminate specific Target ID values.

TARGET ID

Target ID is a numerical identification value from **00-99** generated by the detector according to the conductive properties of the detected metal. It provides an indication of the type of metal the target may be.



NUMERICAL TARGET INFORMATION

On the ICON screen, the Target ID is displayed in the box to the right of the **Discrimination information** field.

In this example, the ID value is **76**. This does not mean that the same metal is always being detected; different targets may produce similar ID values.

WHY CAN THE TARGET ID CHANGE?

The same target may produce more than one ID value across repeated sweeps. Target size, depth, orientation, metal composition and corrosion, as well as ground mineralization and sweep direction, can affect the reading.

Large targets may produce a higher ID than expected. Gold targets also cover a wide ID range and may produce values similar to metallic trash such as foil and pull tabs.

IF A TARGET IS DETECTED BUT NO ID APPEARS

To generate an ID, the detector must receive a sufficiently strong and processable signal. A very small or deeply buried target may be detected even when no ID value appears on the screen.

DISCRIMINATION INFORMATION AND TARGET ICONS

The **Discrimination information** and target type icons on the ICON screen provide visual cues that support the Target ID value. Evaluate them together with the target tone and Target ID. Test known metals to become familiar with the detector responses.

Target ID is an estimated indication. By itself, it cannot determine the metal type or value of a buried object with certainty.

SEARCH MODES

The Aurix 700 has two search modes: **Field** and **Park**. Select the mode that best matches your search environment and intended use.

<div> <div> <div></div> <div>90.0 F2</div> </div> <div> <div></div> <div>N 3</div> </div> <div> <div></div> <div>20</div> </div> </div>	
MODE	PARK
GROUND BALANCE	90.0
AUDIO	20
THRESHOLD	1

SELECTING A MODE

- 1 Press the **Menu** button to open the settings menu.
- 2 Use the **Up** / **Down** buttons to select the **Mode** row.
- 3 Use the **Plus (+)** and **Minus (-)** buttons to select the desired mode. Press the **Menu** button to return to the search screen.

The Mode row is selected; Park mode is shown in this example.

01 FIELD

Designed for searches in fields, open terrain and similar outdoor areas.

02 PARK

Designed for parks, gardens and other areas frequently used by people.

After selecting a search mode, evaluate the **Sensitivity** and **Ground Balance** settings according to the conditions at your search location.

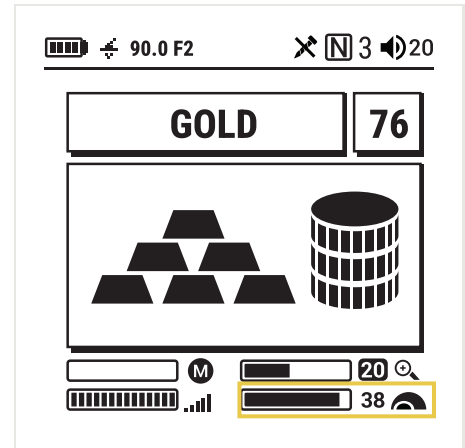
SENSITIVITY

Adjusting detection sensitivity

01 SENSITIVITY ADJUSTMENT

The maximum sensitivity level on the Aurix 700 is **44**. Adjust it on the search screen using the **Plus (+)** and **Minus (-)** buttons. The selected value is shown by the sensitivity indicator at the bottom right of the screen.

Higher sensitivity can make weak signals from small or deeply buried targets more noticeable. However, it can also increase the response to environmental interference and ground effects.



Sensitivity indicator

02 FOR STABLE OPERATION

1 Run Noise Cancellation

If the detector is unstable, first complete the automatic channel scan.

2 Reduce sensitivity gradually

If the instability continues, lower the value one level at a time and check the detector again.

3 Increase it according to field conditions

If the detector operates steadily, increase sensitivity gradually and leave it at a suitable level.

HIGH VALUE

Makes weak target signals more noticeable; noise and ground response may also increase.

LOW VALUE

Can provide quieter and more stable operation in areas with heavy interference.

GROUND BALANCE

Automatic Ground Balance

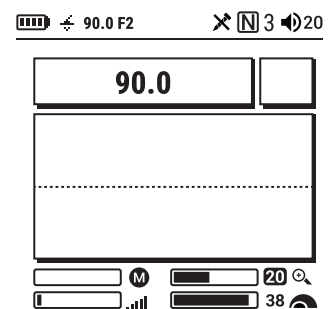
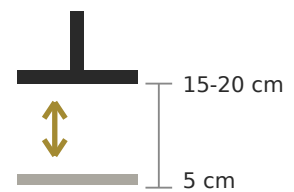
The Aurix 700 is designed to operate in **Field** and **Park** modes without ground balancing in many types of terrain. However, performing Ground Balance on highly mineralized ground can improve detector stability and depth performance.

Ground Balance can be performed in two ways: **Automatic** or **Manual**.

AUTOMATIC GROUND BALANCE

Perform Automatic Ground Balance in any search mode as follows:

- 1 Select an area that you are sure contains no metal.
- 2 To start Automatic Ground Balance, **press and hold the Ground Balance button for 2 seconds, then release it**. When **90.0** appears at the top of the screen, Ground Balance mode is active. Raise the search coil **15-20 cm**, then lower it until it is approximately **5 cm** above the ground. Pump the coil toward the ground with smooth, vertical movements without striking the surface.



- 3 The detector emits a **beep** when the Ground Balance value is updated. Continue pumping until you hear several beeps and check the values on the screen. Results close to one another, such as **85, 80, 83, 87**, are acceptable. Stop pumping. To exit Ground Balance, press and hold the **Up Arrow** button for **2 seconds**, then release it.

Values that are far apart, such as **80, 20, 50, 70**, may indicate interference. Leave Ground Balance at **90** and try different **Frequency Shift** and **Sensitivity** settings to eliminate the interference. If the detector then operates normally, try Ground Balance again. If the problem continues, leave the value at 90 in areas where Ground Balance cannot be performed.

- 4 When the detector is switched on, the Ground Balance value is **90**. If no beep is heard and the value does not change during Ground Balance, the ground is producing the same value as the current setting; therefore, the detector does not update it.

For experienced users: With small targets, a slightly positive setting that produces a faint response as the coil approaches the ground may provide better results. This method requires experience.

GROUND BALANCE

Manual Ground Balance and Ground Balance Values

Manual Ground Balance is performed by adjusting the value directly. It can be used when Automatic Ground Balance cannot be completed or when a small correction to the automatic setting is required. It takes practice and experience.

Automatic Ground Balance may be difficult on wet beach sand; alkaline or saltwater-saturated ground; areas with heavy metal trash; ploughed fields; and ground with variable or very low mineralization. Manual Ground Balance can be used in these conditions.

MANUAL GROUND BALANCE

- 1** Select an area free of metal. Open the menu and select **Ground Balance**.
- 2** Keeping the coil parallel to the ground, slowly pump it between **15-20 cm** and approximately **5 cm** above the surface without touching the ground. Listen to the ground response.

<div> <div> <div></div> <div></div> <div></div> <div></div> </div> <div>90.0 F2</div> <div> <div></div> <div></div> <div></div> </div> <div>N 3</div> <div>20</div> </div>	
GROUND BALANCE	90.0
AUDIO	20
THRESHOLD	1
PRO MODE	ICON

If the sound increases as the coil is raised: The value is too low; increase it with **(+)**.

If the sound increases as the coil is lowered: The value is too high; decrease it with **(-)**.

- 3** The Ground Balance range is **00-99.9**. Adjust the value with the **(+)** and **(-)** buttons. Press once to change the value step by step, or press and hold for rapid adjustment.
- 4** Repeat until the ground response disappears. If it cannot be eliminated completely, compare the sounds produced while lowering and raising the coil. The setting is correct when there is no difference between the two responses.

GROUND BALANCE VALUES

0-25	Ground saturated with saltwater; wet alkaline soils
25-50	Ground with saltwater beneath a dry layer; moist alkaline soils
50-70	Average soil
70-90	Magnetically mineralized ground (magnetite, maghemite); black sand

SETTINGS

Menu Operation, Mode, Ground Balance and Audio

Briefly press the **Power / Menu** button to open the settings menu. Use the **Up / Down** buttons to move between options. Press **Plus (+)** to increase a value and **Minus (-)** to decrease it.

When an option has a submenu, press the **Confirm / Pinpoint** button to enter it. Use the **Menu** button to go back and return to the search screen.

01 MODE

Selects the search mode suitable for your environment and intended use. Select the **Mode** row in the menu, then change the selection with the **(+)** and **(-)** buttons.

Field · Park

See the **Search Modes** section for descriptions of these modes.

<div> <div> <div></div> <div>90.0 F2</div> </div> <div> <div></div> <div>3</div> <div>20</div> </div> </div>	
MODE	PARK
GROUND BALANCE	90.0
AUDIO	20
THRESHOLD	1

02 GROUND BALANCE

Allows the Ground Balance value to be adjusted manually. Select the **Ground Balance** row in the menu. Increase the value with **(+)** or decrease it with **(-)**.

For Automatic and Manual Ground Balance procedures, see the **Ground Balance** section on the previous two pages.

<div> <div> <div></div> <div>90.0 F2</div> </div> <div> <div></div> <div>3</div> <div>20</div> </div> </div>	
GROUND BALANCE	90.0
AUDIO	20
THRESHOLD	1
PRO MODE	ICON

03 AUDIO

Adjusts the detector's overall volume according to the search environment and your personal preference. Select the **Audio** row; increase the volume with **(+)** or decrease it with **(-)**.

The Audio setting is shared by all search modes and the last setting is retained after the detector is switched off and on.

To reduce battery consumption, keep the volume at a comfortable audible level and avoid setting it unnecessarily high.

<div> <div> <div></div> <div>90.0 F2</div> </div> <div> <div></div> <div>3</div> <div>20</div> </div> </div>	
AUDIO	20
THRESHOLD	1
PRO MODE	ICON
ID ACCEPT / REJECT	

SETTINGS

Threshold and Pro Mode

04 THRESHOLD

The threshold is the continuous background sound heard during a search. On the Aurix 700, the Threshold level is fixed at **1** and cannot be changed by the user.

The fixed threshold level is optimized to maintain the background sound while allowing weak signals from small or deeply buried targets to be noticed.

The **Threshold** row in the menu displays the value **1**. The **Plus (+)** and **Minus (-)** buttons do not change this value.

Note: No separate Threshold adjustment is required. The detector operates with this fixed value during every use.

<div> <div> <div></div> <div>90.0 F2</div> </div> <div> <div></div> <div>N 3</div> </div> <div> <div></div> <div>20</div> </div> </div>	
THRESHOLD	1
PRO MODE	ICON
ID ACCEPT / REJECT	
RECOVERY SPEED	80

05 PRO MODE

Pro Mode selects the **display method** used to present target information on the screen. Two display options are available.

Select the **Pro Mode** row in the menu. Use the **(+)** and **(-)** buttons to select the desired display method.

DISPLAY OPTIONS

VDI

ICON

In the example menu screen, **ICON** is selected.

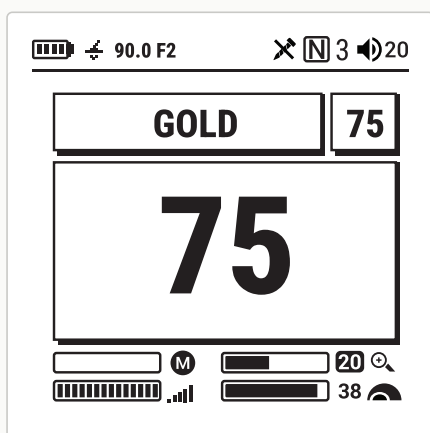
<div> <div> <div></div> <div>90.0 F2</div> </div> <div> <div></div> <div>N 3</div> </div> <div> <div></div> <div>20</div> </div> </div>	
PRO MODE	ICON
ID ACCEPT / REJECT	
RECOVERY SPEED	80
FILTER	0

PRO MODE DISPLAYS

Two display methods for target information

On the Aurix 700, Pro Mode determines how target information is presented on the search screen. The selection changes only the screen layout; it does not change the detector's detection performance.

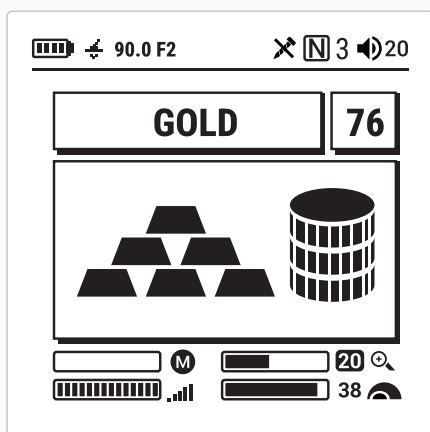
01 VDI



VDI is ideal for users who prefer a simple display focused on Target ID. When the detector produces a target response, you can quickly check the large Target ID value and continue searching.

This display does not include an oscilloscope trace. Evaluate the target tone, Target ID and Discrimination information together.

02 ICON



ICON provides a simple and clearly defined display. It is easy to read and presents discrimination information more visually, making it suitable for users who are learning to operate the detector.

Target type icons are displayed in addition to the Target ID. These icons provide estimated information and cannot identify the target type with certainty on their own.

CHOOSING A DISPLAY

Choose **VDI** for simple numerical tracking, or **ICON** for more visual target classification.

SETTINGS

ID Accept / Reject

06 ID ACCEPT / REJECT

Allows you to reject the ID values of targets you do not want the detector to report during a search. A rejected ID can be accepted again to restore the detection response and audio for targets producing that value.

1 Open the menu. Use the **Up / Down** buttons to select **ID Accept / Reject**. Press the **Confirm / Pinpoint** button to open the adjustment screen.

2 Use the **(+)** and **(-)** buttons to select the ID value you want to change. The selected ID is shown as a large number in the center of the screen, and its position is indicated by a cursor on the ID scale at the top.

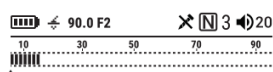
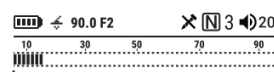
3 Press **Confirm / Pinpoint** to change the selected ID between accepted and rejected. To accept a rejected ID again, select the same value and press the button once more.

4 When finished, press the **Menu** button to return to the settings menu, then press it again to return to the search screen.

ID ACCEPT / REJECT	
RECOVERY SPEED	80
FILTER	0
TONE BREAK	15

ID ACCEPT / REJECT SCREEN

The screens below show the two selection states for the same ID.



FOR MORE EFFECTIVE REJECTION

During detection, the Target ID may not always remain fixed on a single number. ID variation can occur with all metal detectors. For more effective rejection, it is recommended that you also reject the value immediately below and immediately above the selected ID.

Example: If you want to reject ID **50**, also reject **49** and **51**.

Remember that desired targets producing these values may also be missed.

SETTINGS

Recovery Speed and Filter

07 RECOVERY SPEED

Recovery Speed determines how quickly the detector can respond to another target after detecting the first one. It helps separate closely spaced targets and is particularly important in areas with a high concentration of metal trash.

On the Aurix 700, the **Recovery Speed** value is fixed at **80** and cannot be changed by the user.

<div> <div></div> <div>90.0 F2</div> <div> <div></div> <div>3</div> <div>20</div> </div> </div>	
RECOVERY SPEED	80
FILTER	0
TONE BREAK	15
GOLD DISCRIMINATION	

FIXED VALUE

The menu displays 80. The (+) and (-) buttons do not change this setting.

OPERATING EFFECT

Fast response helps distinguish targets that are close to one another.

No Recovery Speed adjustment is required. The detector operates at the fixed value of 80 whenever it is switched on.

08 FILTER

Used to reduce interference caused by environmental **electromagnetic interference (EMI)**. The Filter has **two levels**. Select the **Filter** row in the menu and adjust it with the (+) and (-) buttons.

If interference is present, first try reducing it with the **Sensitivity** setting and the **Frequency Shift** function. If the interference continues, try the Filter.

<div> <div></div> <div>90.0 F2</div> <div> <div></div> <div>3</div> <div>20</div> </div> </div>	
FILTER	0
TONE BREAK	15
GOLD DISCRIMINATION	
STEEL DISCRIMINATION	☐

Do not use the Filter unless necessary. Increasing the Filter level reduces detection depth. Use only the level required to eliminate the interference.

SETTINGS

Tone Break and Gold Discrimination

09 TONE BREAK

Tone Break determines the audio transition point between Target ID ranges. On the Aurix 700, this transition point is factory-defined. The value is fixed and cannot be changed by the user.

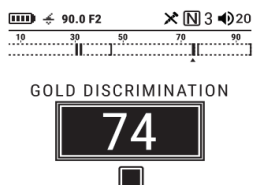
The **Tone Break** row in the menu displays the fixed factory value. The **Plus (+)** and **Minus (-)** buttons do not change it. The detector reports targets with different tones according to the defined ID boundary.

<div> <div> <div></div> <div>90.0 F2</div> </div> <div> <div></div> <div>N 3</div> </div> <div> <div></div> <div>20</div> </div> </div>	
TONE BREAK	15
GOLD DISCRIMINATION	
STEEL DISCRIMINATION	☐
VIBRATION	☐

No adjustment is required. Tone Break does not change the target's ID value or detection depth; it only defines the audio discrimination boundary.

10 GOLD DISCRIMINATION

Evaluates whether a detected target is consistent with the gold group and displays **Gold Discrimination** information on the screen. To enable or disable the function, select **Gold Discrimination** in the menu and press the **Confirm / Pinpoint** button.



On the Gold Discrimination screen, you can include or exclude any desired ID numbers. Update the discrimination information according to targets found in your area, your own tests and your experience.

<div> <div> <div></div> <div>90.0 F2</div> </div> <div> <div></div> <div>N 3</div> </div> <div> <div></div> <div>20</div> </div> </div>	
GOLD DISCRIMINATION	
STEEL DISCRIMINATION	☐
VIBRATION	☐
BRIGHTNESS	80

Important: The discrimination result is an assessment and does not guarantee that the target is gold. Target size, shape, depth and orientation, as well as ground conditions and nearby metals, may affect the result.

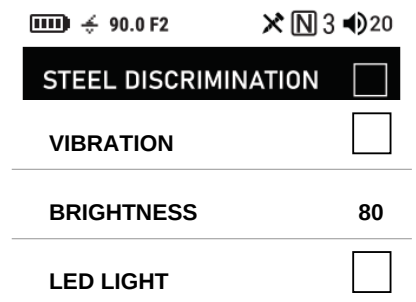
SETTINGS

Steel Discrimination

11 STEEL DISCRIMINATION

Evaluates whether a detected target is consistent with the steel group and displays **Steel Discrimination** information on the screen. To enable or disable the function, select **Steel Discrimination** in the menu and press the **Confirm / Pinpoint** button.

Steel Discrimination helps you evaluate targets that contain iron or produce a steel-like response. Assess the result together with the **Target ID**, audio response and other discrimination information.



When Steel Discrimination is enabled, discrimination information is displayed for targets consistent with the steel group. Target detection, audio response and Target ID display remain active.

FOR RELIABLE EVALUATION

1

Sweep over the target several times from different directions. Consider signals that repeat at the same point.

2

Evaluate Steel Discrimination together with the Target ID, audio tone and signal strength.

3

Rusty, large or irregular iron targets may produce different responses. Cross-sweep the target when the signal is inconsistent.

Important: The discrimination result does not guarantee that the target is steel. Target shape, position, depth, corrosion and ground conditions may affect the result.

SETTINGS

Vibration, Brightness and LED Light

12 VIBRATION

Provides vibration feedback when a target is detected. It can be used alongside the audio alert and helps you notice a target response in noisy surroundings. Select **Vibration** in the menu, then press **Confirm / Pinpoint** to turn it on or off.

<div> <div> <div></div> <div>90.0 F2</div> </div> <div> <div></div> <div>N 3</div> </div> <div> <div></div> <div>20</div> </div> </div>	
VIBRATION	☐
BRIGHTNESS	80
LED LIGHT	☐
LANGUAGE	TR

13 BRIGHTNESS

Adjusts the LCD backlight level to suit ambient conditions and your preference. Select **Brightness** in the menu and change the level with the **Plus (+)** and **Minus (-)** buttons. Higher brightness may increase battery consumption.

<div> <div> <div></div> <div>90.0 F2</div> </div> <div> <div></div> <div>N 3</div> </div> <div> <div></div> <div>20</div> </div> </div>	
BRIGHTNESS	80
LED LIGHT	☐
LANGUAGE	TR
SOUND TYPE	POLYPHONIC

14 LED LIGHT

Illuminates the search area in low-light conditions. Select **LED Light** in the menu and press **Confirm / Pinpoint** to turn it on or off. Keep the light off when it is not needed to conserve battery power.

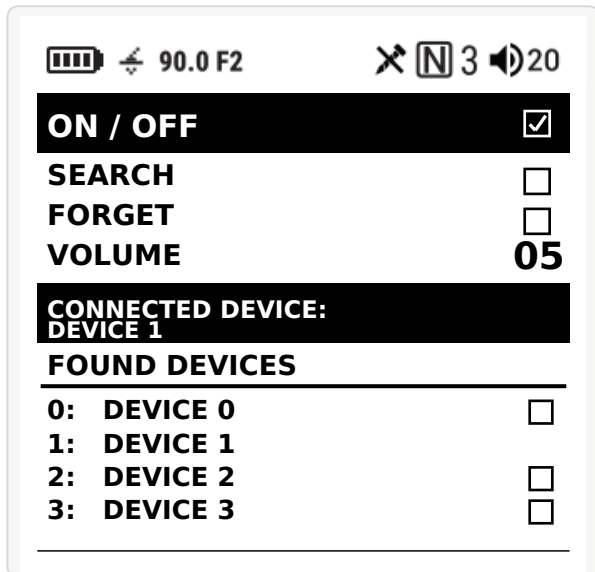
<div> <div> <div></div> <div>90.0 F2</div> </div> <div> <div></div> <div>N 3</div> </div> <div> <div></div> <div>20</div> </div> </div>	
LED LIGHT	☐
LANGUAGE	TR
SOUND TYPE	Polyphonic
COIL TYPE	30CM DD

Note: Using a high brightness setting or leaving the LED Light on for extended periods may reduce battery operating time.

SETTINGS

Bluetooth - optional wireless headphone connection

15 BLUETOOTH (OPTIONAL)



BLUETOOTH-EQUIPPED VERSION

Wireless headphones can be connected only to an **Aurix 700 equipped with the Bluetooth module**. The module is not included with the standard model; it is an optional, paid hardware upgrade.

NO WIRED HEADPHONE SUPPORT

There is no wired headphone port on the device. Headphones connect wirelessly only on the Bluetooth-equipped version.

A CONNECTION STEPS

1 ON

Open the Bluetooth menu and switch the function **On**.

2 SEARCH

Put the headphones in pairing mode and start **Search** on the detector.

3 CONNECT

Select the headphones in the found-devices list and confirm the connection.

4 FORGET

Select the paired headphones and use **Forget** to remove the saved pairing.

B CONNECTION TIPS

Keep the headphones close to the detector during initial pairing. If they do not appear in the list, check that pairing mode is active. Then turn Bluetooth off and on and repeat the search.

SETTINGS

Language, Sound Type and Coil Type

16 LANGUAGE

Sets the language used for the detector's menus and screen text. On the Aurix 700, **TR - Turkish** is fixed and cannot be changed by the user. The **Language** menu row displays **TR**.

FIXED TR - Turkish

90.0 F2		3 20	
LED LIGHT		☐	
LANGUAGE		TR	
SOUND TYPE		Polyphonic	
COIL TYPE		30CM DD	

17 SOUND TYPE

Defines the character of the audio response from targets. On the Aurix 700, the **Polyphonic** sound type is fixed and cannot be changed by the user. In Polyphonic sound type, the sound character does not change with the target's distance from the search coil.

FIXED: POLYPHONIC

Sound character does not vary with target proximity.

90.0 F2		3 20	
LED LIGHT		☐	
LANGUAGE		TR	
SOUND TYPE		Polyphonic	
COIL TYPE		30CM DD	

18 COIL TYPE

Aurix 700 is supplied with a **30 cm DD** search coil as standard. The **Coil Type** value is fixed at 30 cm DD and cannot be changed by the user. This fixed value is displayed in the menu.

90.0 F2		3 20	
LED LIGHT		☐	
LANGUAGE		TR	
SOUND TYPE		Polyphonic	
COIL TYPE		30CM DD	

Important: The Aurix 700 standard package and device setting are for the 30 cm DD search coil. Use only a compatible 30 cm DD search coil.

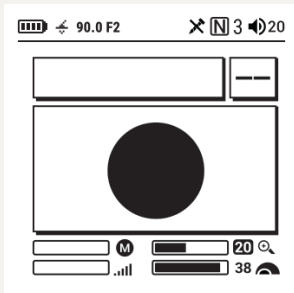
PINPOINT

Target Centering

01 LOCATING THE EXACT TARGET POSITION

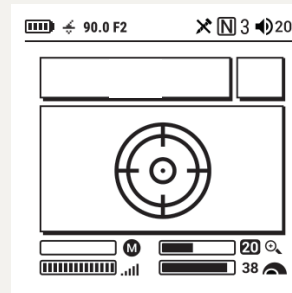
Pinpoint helps locate the center of a detected target and narrow the area to excavate. In normal search modes, you must move the search coil; in Pinpoint mode, the detector continues to respond even when the coil is held still over the target.

READY TO PINPOINT



When Pinpoint opens, the screen is ready for target centering.

TARGET CENTERED



As the signal grows stronger, the centered target indicator becomes clearer.

02 HOW TO USE PINPOINT

- 1 Find the target in a normal search mode, then move the coil to a spot where it no longer responds.
- 2 Press and hold **Confirm / Pinpoint** for **2 seconds**, then release the button.
- 3 Keep the search coil parallel to the ground and slowly approach the target.
- 4 Mark the point with the strongest audio signal and the clearest target indicator.
- 5 Turn **90 degrees** and repeat the sweep. Center points found from different directions help locate the target more accurately.

Note: Pinpoint mode does not provide metal discrimination or Target ID information. Its result is used only to locate the center of the target.

OPERATING FREQUENCY

Fixed 14 kHz operation and interference-channel scanning

01 FIXED 14 kHz OPERATION

The Aurix 700 operates only at 14 kHz. Users cannot select a different operating frequency. This general-purpose frequency offers balanced responses across different types of targets.

FREQUENCY / NOISE CANCELLATION BUTTON

Press and release: The operating frequency does not change.

Hold for 2 seconds, then release: Noise Cancellation starts.

02 14 kHz FREQUENCY

14 kHz

Fixed operating frequency of the Aurix 700

Provides balanced operation for targets of different sizes and conductivities. With no frequency selection needed, the detector is ready for general searches.

03 HOW IT DIFFERS FROM NOISE CANCELLATION

Noise Cancellation does not change the operating frequency: the detector continues working at **14 kHz**. Instead, it automatically scans for a channel with less environmental electromagnetic interference.

How to use it: If interference or unstable operation occurs, hold the button for 2 seconds and release it. The detector completes its channel scan, selects the most suitable channel and remains on it.

IRON REJECT

Quickly enable or disable the detection of iron-region targets

01 OVERVIEW

Iron Reject disables detection of targets classified in the iron ID region and prevents their audio response. This helps make searching more comfortable where iron debris is common. The function is not in the menu: it is controlled directly with its dedicated button on the control panel.

IRON REJECT BUTTON

Short press

On / Off

IRON REJECT

ON



Targets classified in the iron region are not detected and produce no audio response. Searches can be quieter in areas with heavy metal debris.

IRON REJECT

OFF



Iron targets are detected and produce an audio response like other metals. Turn rejection off to recheck an area or an uncertain signal.

02 WHEN TO USE IT

IRON-DEBRIS AREAS

Ground with many iron nails or similar scraps.

UNCERTAIN SIGNAL

Compare target responses with Iron Reject on and off.

RECHECK AN AREA

Switch rejection off to rescan while hearing all target responses.

Caution: Iron Reject does not guarantee that every iron target will be rejected in every situation. Large, rusty, irregular or differently oriented iron can register outside the iron ID region. Responses from valuable targets close to the iron range may also be affected. Sweep uncertain signals from different directions, then switch Iron Reject off and check again if needed.

NOISE CANCELLATION

Automatic channel scan while operating at fixed 14 kHz

01 OVERVIEW

Noise Cancellation helps reduce electromagnetic interference from power lines, electronic devices, transmitters or nearby detectors. The Aurix 700 scans the available channels, selects the most suitable one and continues searching on it. This does not change the operating frequency: the detector remains at **14 kHz**.

FREQUENCY / NOISE CANCELLATION

2 seconds

Hold, then release

02 HOW TO USE IT

- 1** Hold the search coil still at a spot away from metal targets.
- 2** Hold **Frequency / Noise Cancellation** for **2 seconds**, then release.
- 3** Keep the detector and coil still until the automatic channel scan is complete.
- 4** The detector chooses the most suitable channel automatically and stays on it. Resume your search.

03 AUTOMATIC CHANNEL SELECTION

SCAN

Available channels are checked.

MEASURE

Interference levels are compared.

SELECT

The best channel is selected.

SEARCH

The detector stays on that channel.

04 INTERFERENCE OR GROUND EFFECT?

EMI / ENVIRONMENTAL NOISE

Random sounds can occur with the coil in the air.

GROUND EFFECT

If noise rises near the ground, check Ground Balance.

FIELD SIGNALS

Evaluating target responses in challenging ground

01 LARGE OR NEAR-SURFACE TARGETS

A target close to the surface or a very large target may produce several, changing or unusually broad responses. If you suspect such a target, raise the search coil slightly, slow your sweep and check the signal center again.

Try this: Raise the coil - slow the sweep - check again from different directions.

02 FALSE SIGNALS AND POSSIBLE CAUSES

The detector may respond as if a target were present even when there is no metal. Signals that do not repeat or disappear when swept from another direction can have several common causes:

GROUND

High mineralization

ROCK

Mineralized rocks or hot rocks

EMI

Environmental electromagnetic interference

TARGET

Rusty iron, foil or nearby metals

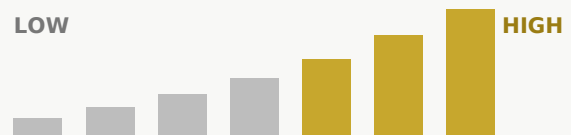
03 ROCKS AND ROCKY GROUND

Rocks with conductivity or magnetic properties unlike the surrounding soil can produce target-like audio and ID responses. Rocks that respond more strongly than the ground are called **positive rocks**; weaker responses are called **negative rocks**.

Rock and ground responses cannot be assessed reliably without proper Ground Balance. Check consistent, repeatable signals from several directions.

04 MAGNETIC MINERALIZATION

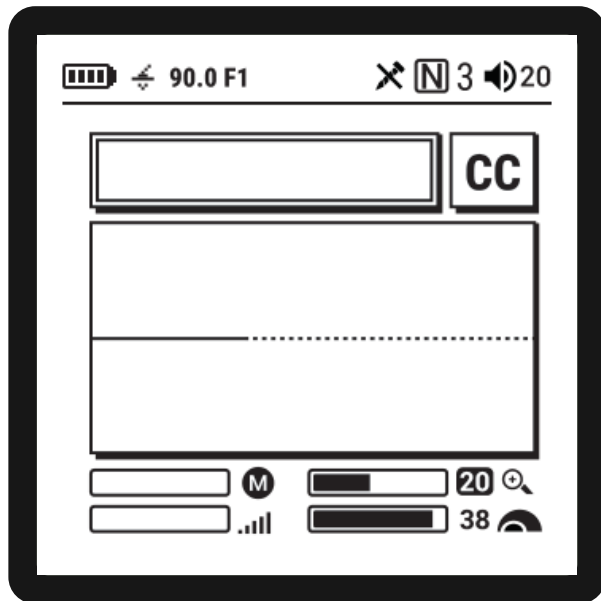
The mineralization indicator gives information about the magnetic content of the ground. Higher bars can mean a stronger ground effect, reduced detection depth and a greater chance of false signals.



If responses are unstable or seem false: First check Ground Balance and sensitivity. For environmental EMI, run Noise Cancellation to scan the channels automatically. If the problem remains, use Filter only at the level needed.

COIL WARNING (CC)

Checking the search-coil connection



WHAT DOES THE WARNING MEAN?

This warning indicates that the transmit signal from the search coil has been interrupted, or that the detector cannot detect the connected coil.

Common causes include a connector that is not fully seated, a loose connection, or damage to the cable or connector.

IMPORTANT

Turn the detector off before checking the connection. Do not force the connector or pull on the cable.

01 CHECKING SEQUENCE

1

POWER OFF

Switch the detector off completely before checking the connection.

2

CHECK CONNECTION

Unplug the connector and reseal it in the correct orientation. Secure it.

3

INSPECT CABLE

Check the cable, connector and pins for damage, dirt or moisture.

4

RESTART

After connecting the coil, switch the detector on and check the warning.

02 IF THE WARNING CONTINUES

The Aurix 700 **Coil Type** is fixed at **30 cm DD**. Confirm that the connected coil is a compatible 30 cm DD coil. If possible, try another compatible 30 cm DD coil. If the warning persists, contact authorized service; do not open or attempt to repair the coil or detector.

Do not use the detector with a damaged, wet or strained connector.

TECHNICAL SPECIFICATIONS

Aurix 700 / Features and equipment

FEATURE	AURIX 700
Ground Balance	Automatic / Manual
Sound Type	Polyphonic
Target ID Accept / Reject	Yes
Discrimination	Gold / Steel / Valuable / Non-valuable / Mineral Bar
Target ID	Yes
Text Discrimination Information	Yes
ICON Display	Yes
Pro Mode Displays	VDI / ICON
Pinpoint	Yes
Search Modes	Field / Park
Brightness	Adjustable
Filter	2 levels
Noise Cancellation	Automatic channel scan
Bluetooth	Optional, separately purchased module
Frequency	Fixed 14 kHz
Language	Turkish (TR) only
Sensitivity	44 levels
Signal Strength Indicator	Yes
Vibration	Yes
Threshold	Fixed at level 1
Recovery Speed	Fixed at 80
Tone Break	Fixed, not adjustable
Search Coil	30 cm DD

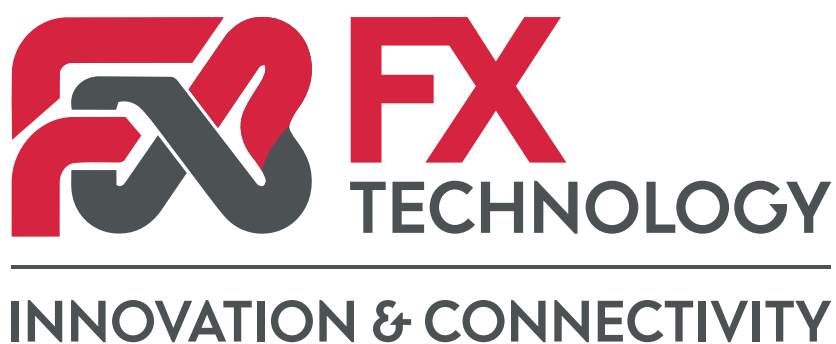
NOTE

FX Technology reserves the right to change product specifications, design and accessories without prior notice.

AURIX 700

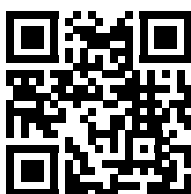
USER MANUAL / ENGLISH

MANUFACTURER



AURIX 700

FX TECHNOLOGY



PRODUCT AND SUPPORT INFORMATION

www.fxmetaldetectors.com

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