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KENTOKTOOL G22

KENTOKTOOL G22 Professional Metal Detector

USER MANUAL

1. IMPORTANT SAFETY INFORMATION

Before operating the KENTOKTOOL G22 Metal Detector, please read and understand all safety instructions. Failure to follow these guidelines may result in injury or damage to the device.

- Always be aware of your surroundings when detecting.
- Do not use the detector in areas with known unexploded ordnance or dangerous electrical lines.
- Avoid detecting in active construction zones or private property without permission.
- Ensure the search coil is securely attached before use.
- Keep batteries out of reach of children and dispose of them properly.
- Do not immerse the control box in water; only the search coil is waterproof.

2. PRODUCT OVERVIEW

The KENTOKTOOL G22 is a professional-grade metal detector designed for high precision and sensitivity, suitable for various outdoor environments. It features an intuitive LCD screen and multiple detection modes.



Figure 2.1: KENTOKTOOL G22 Metal Detector and included accessories.

Key Components:

- **Control Box:** Houses the LCD display, control buttons, and battery compartment.
- **Adjustable Stem:** Allows for length adjustment to suit user height (120-200 cm).
- **Search Coil:** 25 cm waterproof coil for detecting metals.
- **Armrest:** Provides comfortable support during use.
- **Accessories:** Includes a backpack, headphones, and a military shovel for convenience.

UPGRADED ERGONOMIC STRUCTURE

Lightweight & Simple & Professional



Figure 2.2: Ergonomic structure and adjustable features of the detector.

3. SETUP AND ASSEMBLY

Follow these steps to assemble your KENTOKTOOL G22 Metal Detector:

1. **Attach the Search Coil:** Connect the 25 cm search coil to the lower stem using the provided bolt and nut. Ensure it is securely fastened but do not overtighten.
2. **Connect the Stems:** Slide the lower stem into the middle stem, and then the middle stem into the upper stem. Adjust the length to a comfortable position using the quick-lock mechanisms. The detector is adjustable for users between 120 cm and 200 cm in height.
3. **Mount the Control Box:** Secure the control box onto the upper stem. Wrap the coil cable neatly around the stem and plug it into the designated port on the control box.
4. **Install Batteries:** Open the battery compartment on the control box. Insert two (2) 9V batteries, ensuring correct polarity. Close the compartment securely.
5. **Adjust Armrest:** Position the armrest for comfortable support of your forearm.

4. OPERATING INSTRUCTIONS

4.1 Powering On and Off

- To power on, press and hold the **ON/OFF** button (usually marked with a power symbol) on the control box.
- To power off, press and hold the **ON/OFF** button again until the display turns off.

4.2 Understanding the LCD Display

The multifunction LCD display provides crucial information for detection. Refer to the diagram below for a detailed explanation of each indicator and control.



Figure 4.1: Multifunction LCD Display Layout.

- **PINPOINT Mode**: Indicates the pinpointing function is active for precise target location.
- **NOTCH Mode**: Shows when the notch discrimination is engaged to filter out unwanted metals.
- **ALL METAL Mode**: Indicates the detector is set to detect all types of metals.

- **Target Metal ID:** Displays the probable type of metal detected (e.g., Iron, Zinc, Copper, Silver, Gold, Coin).
- **Sensitivity Adjustment:** Controls the detector's sensitivity level (5 levels available).
- **Volume Adjustment:** Adjusts the audio output level.
- **Backlight:** Indicates if the display backlight is on.
- **Target Depth:** Estimates the depth of the detected target.
- **NOTCH Setting:** Allows selection of specific metal types to ignore.

4.3 Search Modes

The G22 offers multiple search modes to optimize your detection experience:

MULTIPLE SEARCH MODES

Accurately identify 9 types of metals



ALL METAL MODE
Detects all metals



NOTCH-MODE
Remove unwanted metal



PINPOINT MODE
Accurate Locate target metal

Figure 4.2: Multiple Search Modes.

- **ALL METAL Mode:** Detects all types of metals without discrimination. Ideal for general searching or when you want to find any metallic object.
- **NOTCH Mode:** Allows you to selectively eliminate certain metal types from detection. This is useful for ignoring junk metals like iron or aluminum pull-tabs. Use the NOTCH +/- buttons to select the target ID segments you wish to exclude.
- **PINPOINT Mode:** Once a target is detected, switch to Pinpoint mode to accurately locate its exact position.

This mode helps narrow down the target area for efficient recovery.

4.4 Sensitivity and Target Identification

The G22 features an integrated high-sensitivity DSP chip for strong anti-interference capability and high precision. It can identify 9 types of metals.



Figure 4.3: Detection Depth and Metal Identification.

- **Sensitivity:** Adjust the sensitivity using the SENS +/- buttons. There are 5 levels of sensitivity settings. Higher sensitivity increases detection depth but may also increase false signals in highly mineralized ground.
- **Target ID:** The detector provides a numerical Target ID and an icon on the LCD to indicate the probable type of metal. Common identifiable metals include Iron, Zinc, Nickel, Magnesium Alloy, Copper, Silver, Gold, and various Coin denominations.
- **Detection Depth:** The 25 cm search coil allows for a detection depth of up to 25.5 cm, depending on the target size and ground conditions. The detection time is reduced from 1 second to 0.2 seconds for faster target acquisition.

4.5 Usage Environments

The 25 cm search coil is waterproof (IP68 rated), making the G22 suitable for various environments, including:



Figure 4.4: Detector usage in various environments.

- Beaches (shallow water detection with coil)
- Parks
- Forests
- Hills

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your metal detector.

- **Cleaning:** After each use, especially in sandy or muddy conditions, wipe down the search coil and stem with a damp cloth. Do not use abrasive cleaners or solvents. The control box should be kept dry and clean.
- **Battery Care:** Remove batteries if the detector will not be used for an extended period to prevent leakage. Use high-quality 9V alkaline batteries for best performance.

- **Storage:** Store the detector in a cool, dry place, away from direct sunlight and extreme temperatures. If disassembling for storage, ensure all components are clean and dry.
- **Cable Inspection:** Periodically check the coil cable for any signs of wear or damage.

6. TROUBLESHOOTING

If you encounter issues with your KENTOKTOOL G22, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Detector does not power on	Dead or incorrectly installed batteries	Replace batteries with fresh 9V ones, ensuring correct polarity.
Erratic signals or false readings	High sensitivity setting, electromagnetic interference, or highly mineralized ground	Reduce sensitivity. Move away from power lines or other electronic devices. Try ground balancing if available (not explicitly mentioned as a feature, but general advice).
No detection or weak signals	Low sensitivity, coil cable loose, or target too deep/small	Increase sensitivity. Check coil cable connection. Sweep slower and closer to the ground.
Display not working	Low battery or connection issue	Replace batteries. Ensure all connections are secure.

7. SPECIFICATIONS

Feature	Specification
Model Number	G22
Dimensions (L x W x H)	25 x 25 x 125 cm (adjustable length up to 200 cm)
Weight	1.5 Kilograms
Material	Metal-plastic
Power Source	Battery powered (2 x 9V batteries required)
Battery Life	Approximately 30 hours
Search Coil Size	25 cm
Waterproof Rating	IP68 (Search Coil only)

Feature	Specification
Max. Detection Depth	25.5 cm (for larger targets)
Sensitivity Levels	5 levels
Color	Blue

8. WARRANTY AND SUPPORT

KENTOKTOOL products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official KENTOKTOOL website. Please retain your proof of purchase for any warranty claims.