

Explore Scientific 80-20012

Explore Scientific Pro Digital Metal Detector with Headphones User Manual

Model: 80-20012

INTRODUCTION AND SAFETY INFORMATION

This manual provides essential instructions for the safe and effective operation, setup, and maintenance of your Explore Scientific Pro Digital Metal Detector (Model 80-20012). Please read this manual thoroughly before using the device.

Important Safety Precautions:

- For safe operation, do not use in or near water. The search coil is water-resistant, but the control box is not.
- Always obtain permission before searching on private property.
- Avoid searching near underground power lines, cables, or pipes to prevent injury or damage.
- Be aware of your surroundings and local regulations regarding metal detecting.
- Keep the device away from extreme temperatures and direct sunlight.

PACKAGE CONTENTS

Verify that all components are present:

- Digital Metal Detector Control Unit with Adjustable Stem
- Water-Resistant Search Coil
- Headphones
- Arm Rest with Strap
- User Manual (this document)



Figure 1: Exploded view showing the main components of the metal detector, including the digital control box, adjustable bar, high sensitivity waterproof search coil, cushion handle grip, cushion arm rest and strap, and headphones.

SETUP AND ASSEMBLY

1. **Assemble the Stem:** Connect the lower, middle, and upper stems. Ensure they are securely fastened. The adjustable bar length allows for comfortable use.
2. **Attach the Search Coil:** Securely attach the water-resistant search coil to the lower stem. Route the coil cable along the stem and plug it into the control box.
3. **Install Batteries:** The device is battery-powered. Open the battery compartment on the control box (location not specified, typically on the underside or rear). Insert the required batteries (type not specified, refer to packaging if available) ensuring correct polarity. Close the compartment securely.
4. **Attach Arm Rest:** Slide the arm rest onto the upper stem and secure it. Adjust the strap for a comfortable fit on your forearm.
5. **Connect Headphones:** Plug the included headphones into the "PHONE" jack on the control panel.



Figure 2: The included headphones connect to the control unit for private audio alerts.

6. **Adjust Length:** Adjust the length of the detector's stem using the adjustable bar length and lock mechanism to a comfortable height for operation.



Figure 3: The Explore Scientific Pro Digital Metal Detector fully assembled and ready for use.

OPERATING INSTRUCTIONS

Control Panel Overview:



Figure 4: Digital LCD display showing Sensitivity Indicator, Metal Type Indicator (Iron, AL, Gold, Bronze, Silver), Depth Indicator, Battery Level, Volume, and Control Buttons (SET, MODE, ENTER, P/P, POWER, Up/Down arrows).

- **POWER Button:** Press to turn the detector ON or OFF.
- **SENS (Sensitivity) Indicator:** Displays the current sensitivity level. Adjust using the Up/Down arrows.
- **BATT (Battery) Indicator:** Shows the remaining battery life.
- **VOLUME Indicator:** Displays the current audio volume. Adjust using the Up/Down arrows.
- **METAL TYPE Indicator:** Icons for Iron, Aluminum, Gold, Bronze, and Silver, along with common coin denominations (5¢, 1¢, 10¢, 25¢, 50¢, \$1). The detector provides seven different tone alerts to identify types of hidden metals.
- **DEPTH Indicator:** Shows the estimated depth of the detected object (e.g., 2", 4", 6", 8").
- **MODE Button:** Cycles through different detection modes (specific modes not detailed, refer to on-screen prompts).
- **SET Button:** Used to enter or confirm settings.
- **ENTER Button:** Confirms selections or actions.
- **P/P (Pinpoint) Button:** Activates the pinpoint function to narrow down the exact location of a detected target.
- **Up/Down Arrows:** Adjust sensitivity, volume, and navigate menu options.

Basic Operation:

1. **Power On:** Press the POWER button. The LCD will illuminate and display current settings.
2. **Adjust Sensitivity:** Use the Up/Down arrows to adjust the sensitivity level. Start with a moderate level and increase if needed, but reduce if experiencing excessive false signals.
3. **Sweep the Coil:** Hold the detector with the search coil parallel to the ground, about 1-2 inches above the surface. Sweep the coil slowly from side to side in overlapping motions.



Figure 5: Proper technique for sweeping the metal detector coil over the ground.

4. **Interpret Signals:** When a metal object is detected, the detector will emit an audible tone through the headphones and display information on the LCD screen, including the estimated metal type and depth.
5. **Use Pinpoint Function:** Once a target is detected, press the P/P button. Move the coil slowly over the target area until the strongest signal is heard, indicating the precise location.
6. **Water-Resistant Coil:** The search coil is water-resistant, allowing for detection in shallow puddles and damp areas. **Do not submerge the control box.**



Figure 6: The water-resistant search coil allows for detection in shallow water environments.

MAINTENANCE

- **Cleaning:** Wipe the detector with a damp cloth after each use. Do not use abrasive cleaners or solvents. Ensure the control box remains dry.
- **Storage:** Store the detector in a cool, dry place when not in use. If storing for an extended period, remove the batteries to prevent leakage.
- **Coil Care:** The search coil is water-resistant (IP65 rated). Rinse off any dirt or debris with fresh water, but ensure the connection point to the stem and control box remains dry.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Detector does not power on.	Low or dead batteries; incorrect battery installation.	Check battery level on the LCD. Replace batteries if necessary, ensuring correct polarity.

Problem	Possible Cause	Solution
Constant false signals or chattering.	Sensitivity too high; electromagnetic interference; mineralized ground.	Reduce sensitivity. Move away from power lines or other electronic devices. Try adjusting ground balance if available (not explicitly mentioned, but a common feature).
No detection or weak signals.	Sensitivity too low; coil not sweeping correctly; target too deep.	Increase sensitivity. Ensure proper sweeping technique. The detector finds metals up to 8 inches below the surface.
Inaccurate metal identification.	Target is small or deeply buried; multiple targets close together.	Sweep slower and use the pinpoint function. Dig carefully to verify.

SPECIFICATIONS

Feature	Detail
Brand	Explore Scientific
Model Number	80-20012
UPC	812257019991
Material	Metal
Power Source	Battery Powered
Adjustable Length	Yes
International Protection Rating	IP65 (Water-resistant search coil)
Maximum Detection Depth	Up to 8 inches
Search Coil Size	7 Inches
Item Weight	4.02 pounds
Package Dimensions	20.43 x 11.38 x 6.73 inches

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or contact Explore Scientific directly. Specific warranty terms and conditions may vary.

If you require technical assistance or have questions not covered in this manual, please contact Explore Scientific customer support or your retailer for further assistance.



Related Documents - 80-20012

<p>EXPLORE SCIENTIFIC</p> <p>PowerTime Hub Solo Wireless Charger with Alarm Clock BCC2002 User Manual</p> <ul style="list-style-type: none"> 1. INTRODUCTION 2. SAFETY INFORMATION 3. FEATURES AND SPECIFICATIONS 4. SETUP AND OPERATION 5. TROUBLESHOOTING 6. WARRANTY INFORMATION 	<h3>Explore Scientific PowerTime Hub Solo Wireless Charger with Alarm Clock BCC2002 User Manual</h3> <p>User manual for the Explore Scientific PowerTime Hub Solo Wireless Charger with Alarm Clock (Model BCC2002). Features include wireless charging, alarm clock, night light, temperature display, and safety information.</p>
<p>EXPLORE SCIENTIFIC</p> <p>RDC8002 Radio Controlled Wall Clock with Weather Forecast User Manual</p> <ul style="list-style-type: none"> 1. INTRODUCTION 2. SAFETY INFORMATION 3. FEATURES AND SPECIFICATIONS 4. SETUP AND OPERATION 5. TROUBLESHOOTING 6. WARRANTY INFORMATION 	<h3>Explore Scientific RDC8002 Radio Controlled Wall Clock with Weather Forecast User Manual</h3> <p>User manual for the Explore Scientific RDC8002 radio controlled wall clock. Learn about setup, features like weather forecasting, time synchronization, and product specifications.</p>
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<p>EXPLORE SCIENTIFIC</p> <p>10" Truss Tube Dobson Manual de instrucciones</p>	<h3>Manual del Telescopio Dobson Explore Scientific 10" Truss Tube</h3> <p>Manual de instrucciones completo para el telescopio Dobson Explore Scientific 10" Truss Tube, que cubre la configuración, alineación, seguridad, mantenimiento y especificaciones técnicas.</p>
<p>EXPLORE SCIENTIFIC</p> <p>134mm Equatorial Newtonian Instruction Manual</p>	<h3>Explore Scientific 134mm Equatorial Newtonian Telescope Instruction Manual</h3> <p>Comprehensive instruction manual for the Explore Scientific 134mm Equatorial Newtonian Reflector Telescope (Model ES-ON13449EQ3). Covers assembly, alignment, focusing, collimation, care, maintenance, and basic telescope principles for amateur astronomers.</p>



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