

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Armada Technologies](#) /
- › [Pro871C Underground Cable Locator User Manual](#)

## Armada Technologies Pro871C

# Armada Technologies Pro871C Underground Cable Locator User Manual

Model: Pro871C

## INTRODUCTION

---

The Armada Technologies Pro871C Underground Cable Locator is designed for efficient and accurate tracing of various underground cabling types, including CATV, electrical, telephone, dog fencing, and landscape lighting. This manual provides detailed instructions for the proper setup, operation, and maintenance of your Pro871C locator to ensure optimal performance and longevity.

The Pro871C offers five distinct tracking modes: two direct connect modes, two inductive modes (built-in antenna and inductive clamp), and one passive 50/60Hz tracing mode. Users can utilize either null or peak reception methods to precisely locate the path of underground cables.

## WHAT'S IN THE BOX

---

Upon unpacking, please verify that all components listed below are present and in good condition:

- Receiver Wand
- Transmitter
- Inductive Clamp
- Ground Stake
- Headset
- Alligator Clip Cord Set
- User Guide



Figure 1: Complete Pro871C Kit Contents



Figure 2: Included Headset for Audio Reception

## SETUP

---

### 1. Battery Installation

The Pro871C requires 8 D-cell batteries for the receiver wand and 1 9V battery for the transmitter. Ensure batteries are inserted with correct polarity.

1. **Receiver Wand:** Locate the battery compartment on the receiver wand. Insert 8 D-cell batteries according to the polarity indicators. Securely close the compartment.
2. **Transmitter:** Locate the battery compartment on the transmitter. Insert 1 9V battery according to the polarity indicators. Securely close the compartment.

The unit features low battery indicator lights on both the wand and the transmitter. Replace batteries promptly when these indicators illuminate to ensure accurate readings.

### 2. Initial Checks

Before operation, perform a quick check:

- Ensure all connections are secure.
- Turn on both the transmitter and receiver to confirm power.
- Familiarize yourself with the controls and indicators on both units.

## OPERATING INSTRUCTIONS

---

The Pro871C offers versatile tracing capabilities through its multiple modes. Select the appropriate mode based on the cable type and accessibility.

### Tracing Modes

- **Direct Connect Modes (2Khz and 33Khz):**

For direct connection to the cable to be traced. Connect the included alligator clip cord set from the transmitter to the target cable and a suitable ground point (e.g., ground stake). Select either the 2Khz or 33Khz frequency on the transmitter. This method provides the most accurate trace.

- **Inductive Modes (Built-in Antenna or Inductive Clamp):**

These modes are used when direct connection to the cable is not feasible. The transmitter induces a signal onto the cable wirelessly.

- **Built-in Inductive Antenna:** Place the transmitter directly over the suspected cable path.
- **Inductive Clamp:** Clamp the inductive clamp around the cable (if accessible above ground, e.g., at a junction box) and connect it to the transmitter. This provides a stronger induced signal than the built-in antenna.

- **Passive 50/60Hz Tracing Mode:**

This mode allows tracing of live electrical cables by detecting the ambient 50/60Hz frequency they emit. No transmitter connection is required for this mode.

### Reception Methods

Once the transmitter is active (or in passive mode), use the receiver wand to follow the signal:

- **Visual Meter:** The receiver's display provides a visual indication of signal strength.
- **External Speaker:** An audible tone indicates signal presence and strength.
- **Headset:** For clearer audio reception, especially in noisy environments, connect the included headset to the receiver. Both the speaker and headset have volume control.

### Null or Peak Reception Modes

The receiver supports both Null and Peak reception modes for precise cable location:

- **Peak Mode:** The signal strength is strongest directly over the cable. This is generally easier for initial tracing.
- **Null Mode:** The signal strength is weakest directly over the cable, providing a sharper, more precise indication of the cable's exact center.

Experiment with both modes to determine which works best for your specific tracing scenario.



Figure 3: Operating the Pro871C Receiver Wand

## MAINTENANCE

---

Proper maintenance ensures the longevity and reliability of your Pro871C locator.

- **Cleaning:** Wipe down the units with a soft, damp cloth after each use. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries as soon as the low battery indicators illuminate. Remove batteries if the unit will not be used for an extended period to prevent leakage.
- **Storage:** Store the Pro871C in its original carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect cables, connectors, and the inductive clamp for any signs of wear or damage.

## TROUBLESHOOTING

---

| Problem                                    | Possible Cause                           | Solution   |
|--|--|--|
| No power to unit (Receiver or Transmitter) | Dead or incorrectly installed batteries. | Check battery polarity. Replace all batteries with fresh ones. |

| Problem                     | Possible Cause  | Solution   |
|-----------------------------|---|--|
| Weak or no signal reception | <ul style="list-style-type: none"> <li>• Transmitter not active or too far.</li> <li>• Improper connection in direct connect mode.</li> <li>• Cable too deep or signal interference.</li> <li>• Incorrect mode selected.</li> </ul> | <ul style="list-style-type: none"> <li>• Ensure transmitter is on and close enough.</li> <li>• Verify secure connection to cable and ground.</li> <li>• Try a different tracing mode (e.g., direct connect for stronger signal).</li> <li>• Check for other active electrical lines nearby.</li> </ul> |
| Inaccurate tracing results  | <ul style="list-style-type: none"> <li>• Interference from other utilities.</li> <li>• Signal bleed to adjacent lines.</li> <li>• Improper use of Null/Peak modes.</li> </ul>   | <ul style="list-style-type: none"> <li>• Try tracing from multiple points.</li> <li>• Switch between Null and Peak modes for verification.</li> <li>• Ensure proper grounding in direct connect mode.</li> </ul>   |
| Low battery indicator on    | Batteries are low.  | Replace batteries immediately to maintain performance.   |

## SPECIFICATIONS

| Feature                    | Description  |
|----------------------------|--|
| Model Number               | Pro871C  |
| Brand                      | Armada Technologies  |
| Product Dimensions         | 28 x 3.5 x 10.25 inches  |
| Power Source (Receiver)    | 8 x D Batteries  |
| Power Source (Transmitter) | 1 x 9V Battery   |
| Direct Connect Frequencies | 2Khz and 33Khz   |
| Inductive Modes            | Built-in Inductive Antenna, Inductive Clamp                    |
| Passive Tracing Mode       | 50/60Hz  |
| Reception Methods          | Audible (speaker or headset with volume control), Visual Meter |
| Reception Modes            | Null or Peak   |
| Receiver Wand Weight       | Approximately 3 lbs.   |

## WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or service for your Armada Technologies Pro871C Underground Cable Locator, please contact Armada Technologies directly. Refer to the contact information provided with your product packaging or visit the official Armada Technologies website for the most current support details.

**Manufacturer:** Armada Technologies



© 2024 Armada Technologies. All rights reserved.