SZJMS NF-816L

SZJMS NF-816L Underground Cable Locator User Manual

Model: NF-816L | Brand: SZJMS

1. Introduction

Welcome to the user manual for the SZJMS NF-816L Underground Cable Locator. This device is designed to help you efficiently and accurately locate and track buried and hidden wires, identify break-points, and determine the direction of underground and wall-through cables. It is an ideal tool for various applications, including pet fences, buried sprinkler valves, irrigation lines, and general cable testing.
Please read this manual thoroughly before operating the device to ensure safe and effective use. Keep this manual for future reference.

2. Product Overview

2.1. Components

The NF-816L system includes the following main components:

- **Transmitter Unit:** Generates the signal to be traced.
- **Receiver Unit:** Detects the signal from the transmitter.
- **Alligator Clips & Leads:** For connecting the transmitter to the wire.
- **Headphones:** For clearer signal detection in noisy environments.
- **Instruction Manual:** This guide.



Figure 2.1: SZJMS NF-816L Underground Cable Locator (Transmitter and Receiver)



Figure 2.2: Practical Structure and Labeled Parts of the NF-816L

2.2. Key Features

- **Enhanced Locating Capability:** Accurately locates and tracks buried and hidden wires, identifying break-points and direction.
- **Deep & Long Range:** Can track wires up to 2-3 feet (0.6-0.9 meters) deep and up to 1600 feet (500 meters) long. (Note: Detection depth may vary based on environment.)
- **Anti-interference Design:** Professional design minimizes interference for reliable detection.
- **Rechargeable Batteries:** Both transmitter and receiver are powered by 3.7V 1100mAh rechargeable lithium-ion batteries, providing up to 6 hours of operation.
- **Integrated LED Flashlight:** The receiver includes an LED light for use in dark environments.
- **Headphone Jack:** Allows connection of earphones for precise positioning in noisy conditions.
- **Versatile Applications:** Suitable for pet fences, buried sprinkler valves, irrigation systems, and general electrical wire tracing.

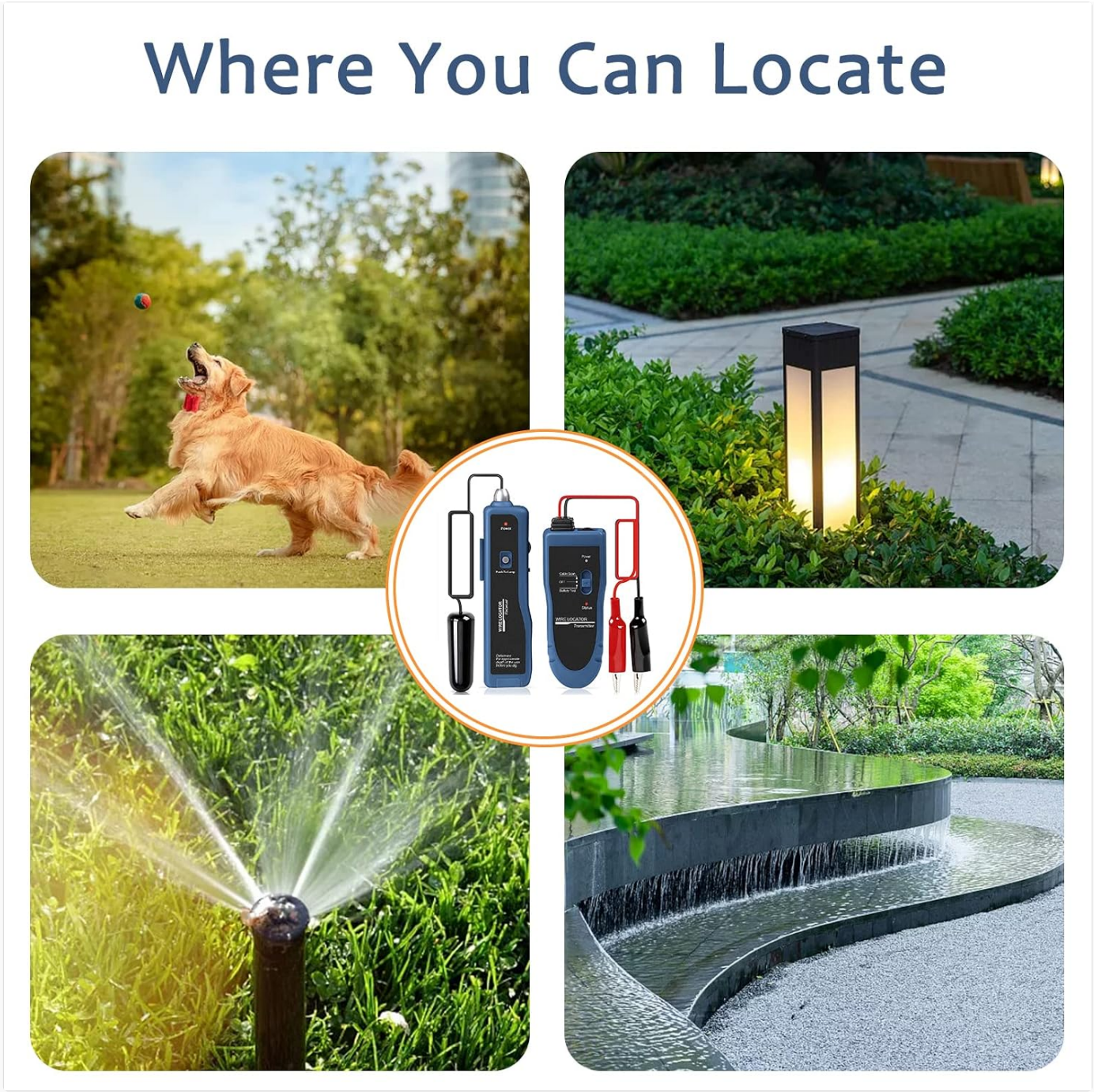


Figure 2.3: Where the NF-816L Can Be Used

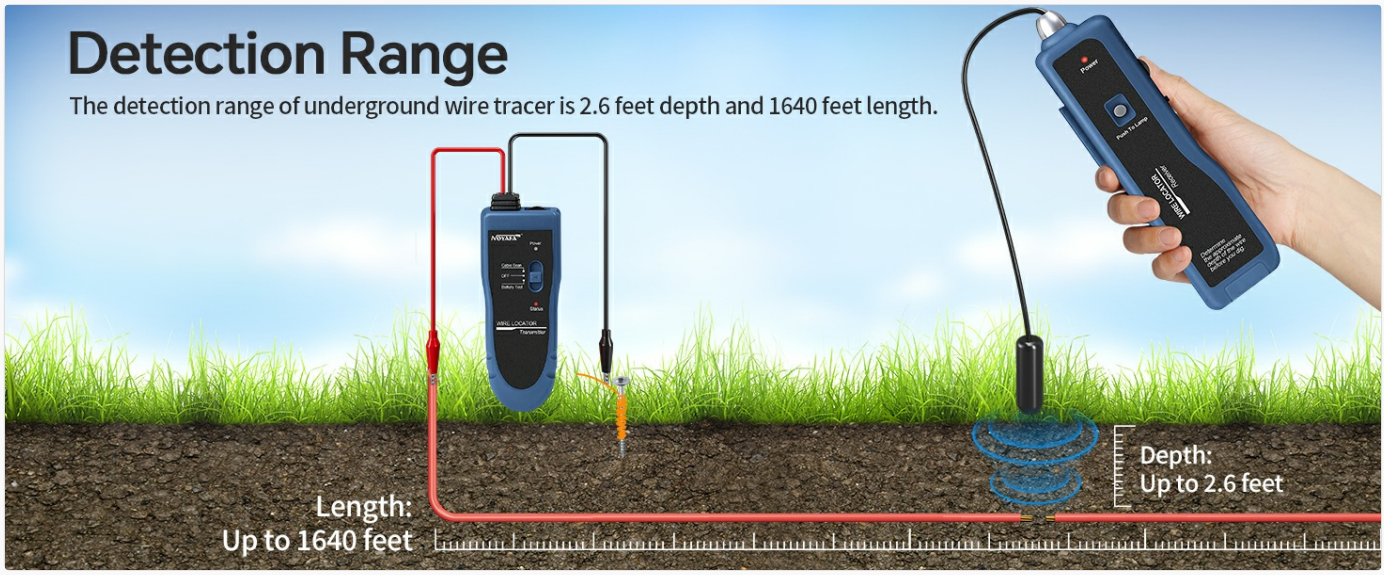


Figure 2.4: Detection Range of the NF-816L



Figure 2.5: Rechargeable Power Source



Figure 2.6: Receiver with LED Flashlight

3. Safety Information

To ensure safe operation and prevent damage to the device or personal injury, please adhere to the following safety guidelines:

- **DO NOT use the NF-816L on live circuits.** This device is designed for use with non-energized cables or low voltage circuits below 24V. Using it on live circuits can cause severe damage to the tester and pose a risk of electric shock.
- Always ensure the circuit is de-energized before connecting the transmitter.
- Keep the device away from water and moisture.
- Do not attempt to disassemble or modify the device. Repairs should only be performed by qualified personnel.
- Store the device in a dry, cool place when not in use.
- Keep out of reach of children.

4. Setup

4.1. Battery Installation

Both the transmitter and receiver units are powered by 3.7V 1100mAh rechargeable lithium-ion batteries. Ensure both units are fully charged before use. A charging cable is typically included.

4.2. Connecting the Transmitter

Follow these steps to connect the transmitter:

1. **Ensure the circuit to be tested is NOT energized.**Turn off power at the breaker or disconnect the power source.
2. Connect the **red alligator clip** from the transmitter to the wire you intend to trace.
3. Connect the **black alligator clip** to a suitable ground point. This could be a metal stake driven into the earth, a known ground wire, or a neutral wire (if the circuit is confirmed de-energized). A good ground connection is crucial for effective tracing.
4. Hold the power button on the transmitter for at least 3 seconds to turn it on. The power indicator light should illuminate.



Figure 4.1: Connecting the Transmitter and Preparing to Scan

5. Operating Instructions

5.1. Basic Operation Steps

Once the transmitter is connected and powered on, follow these steps to locate your wires:

1. Turn on the receiver unit by holding its power button for at least 3 seconds.
2. Adjust the transmitter's power level and the receiver's volume (using the thumb wheel switch) to a suitable level. Start with a lower volume and increase as needed.
3. Slowly move the receiver's antenna close to the suspected path of the buried cable.
4. Listen for the audible signal (beeps) through the receiver's speaker or connected headphones. The signal will be strongest directly over the wire.
5. Move the receiver back and forth across the suspected path. You will typically hear beeps on either side of the wire,

and a

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