

WnewTools ATOOL1426021

WnewTools 0.5MHz-470MHz RF Signal Generator Meter Tester
User Manual

Model: ATOOL1426021

1. INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of the WnewTools 0.5MHz-470MHz RF Signal Generator Meter Tester. This device is designed for debugging FM radio and walkie-talkie systems, offering precise control over frequency and signal strength, along with built-in audio modulation capabilities.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in injury or damage to the product.

- Ensure the power supply meets the specified voltage (8-12V DC) and current requirements.
- Do not expose the device to moisture or extreme temperatures.
- Avoid dropping or subjecting the device to severe impact.
- Do not attempt to open or modify the device, as this will void the warranty and may cause damage.
- Always disconnect power before cleaning or when the device is not in use.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- 1 x WnewTools 0.5MHz-470MHz RF Signal Generator Meter Tester
- (Power adapter and cables may be sold separately, please check product packaging)

4. PRODUCT OVERVIEW

The RF Signal Generator Meter Tester features a clear display, intuitive controls, and a robust design for various testing scenarios.

4.1 Front Panel Layout

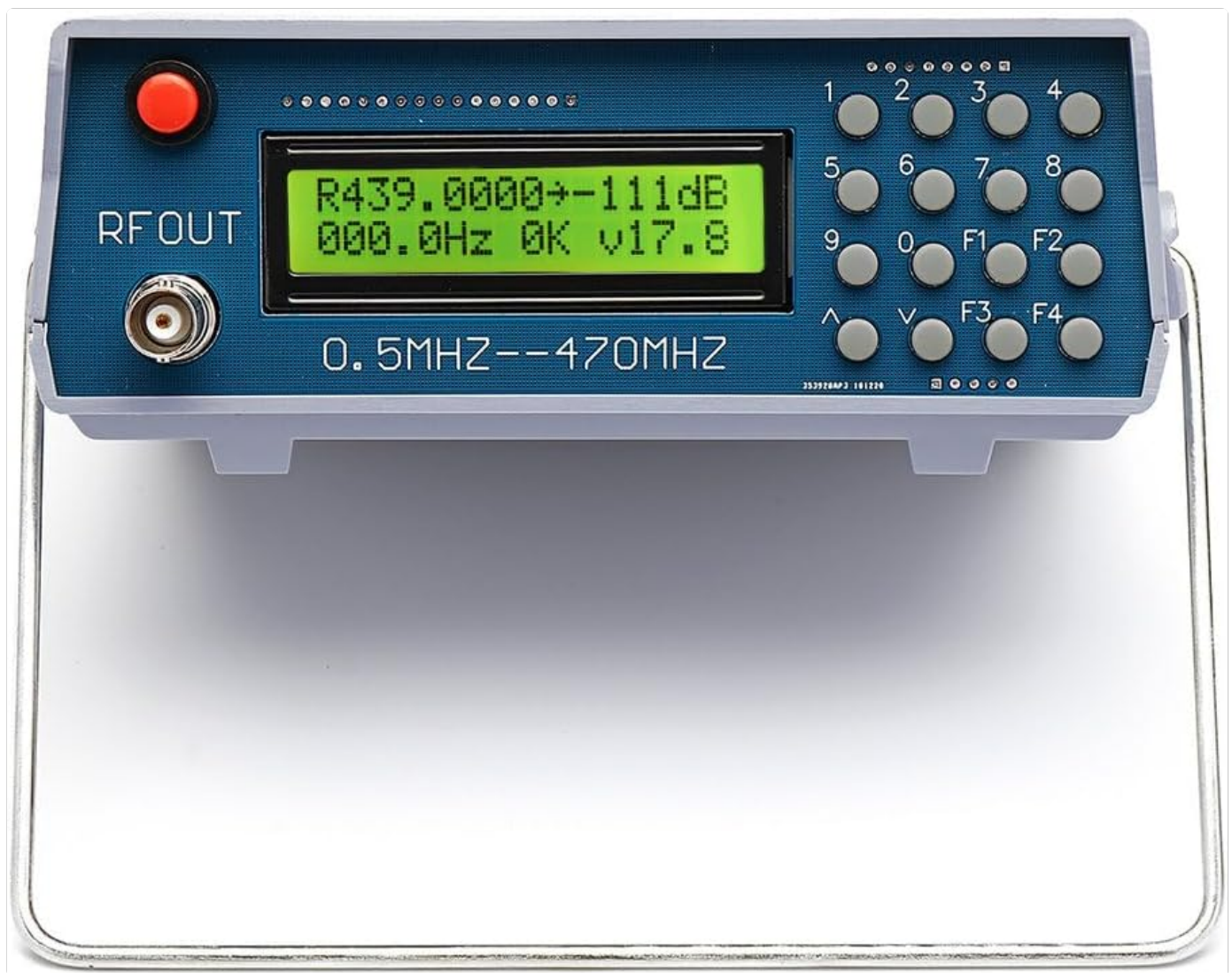


Figure 1: Front view of the WnewTools RF Signal Generator Meter Tester. It shows the LCD display, numeric keypad, function buttons (F1-F4), up/down arrow keys, RF OUT port, and power indicator.



Figure 2: Angled view of the RF Signal Generator, illustrating the integrated kickstand for convenient desktop use. The front panel controls and display are clearly visible.

4.2 Controls and Indicators

- **RF OUT Port:** BNC connector for RF signal output.
- **LCD Display:** Shows frequency, signal strength, audio modulation status, and firmware version.
- **Numeric Keypad (0-9):** Used for direct input of frequency and other numerical values.
- **Arrow Keys (Up/Down):** Used for numerical stepping to modify selected parameters.
- **F1 Key:** Cycles through setting items (frequency, signal strength, audio modulation frequency).
- **F2 Key:** Backspace function for correcting input errors.
- **F3 Key:** Toggles RF signal output ON/OFF.
- **F4 Key:** Toggles audio signal modulation ON/OFF.

5. TECHNICAL SPECIFICATIONS

Feature	Specification
Frequency Range	0.5 MHz - 470 MHz
Signal Strength	-70 dBm to -132 dBm (effective range)
Audio Modulation	Built-in 800 Hz tone modulation
Power Supply	8-12V DC
Frequency Display Format	7 digits (e.g., 439012.5 KHz displays as 4390125)

Feature	Specification
Dimensions (L x W x H)	8.66 x 3.15 x 5.91 inches (22 x 8 x 15 cm)
Item Weight	6.3 ounces (180 grams)
Model Number	ATOOL1426021
UPC	769902983117

6. SETUP

- Power Connection:** Connect a compatible 8-12V DC power adapter (not included) to the DC input jack on the device. Ensure the power adapter's polarity is correct.
- Power On:** Press the power button (if available, otherwise device powers on upon DC connection). The LCD display should illuminate.
- RF Output Connection:** Connect your testing equipment (e.g., FM radio, walkie-talkie) to the RF OUT BNC port using an appropriate coaxial cable.

7. OPERATING INSTRUCTIONS

This section details how to configure the signal generator for your testing needs.

7.1 Setting Parameters

- Select Parameter:** Press the **F1** key to cycle through the adjustable parameters: Frequency, Signal Strength, and Audio Modulation Frequency. The currently selected parameter will be indicated on the display.
- Input Value:**
 - For direct input, use the **numeric keypad (0-9)**. For example, to set 439.0125 MHz, input "4390125" (the device handles the decimal point internally for 7-digit frequency display).
 - To adjust values incrementally, use the **arrow keys (Up/Down)**.
 - If an input error occurs, press the **F2** key to backspace.

7.2 Signal Output Control

- Toggle RF Output:** Press the **F3** key to turn the RF signal output ON or OFF.
- Toggle Audio Modulation:** Press the **F4** key to turn the 800 Hz audio signal modulation ON or OFF. Note that only 800 Hz modulation is supported; other values are invalid.

Important Note: Signal strength values outside the -70 dBm to -132 dBm range may be displayed but are not effective for actual output.

8. MAINTENANCE

- Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or solvents.
- Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- Handling:** Handle the device with care to prevent physical damage.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Incorrect or no power supply connected.	Ensure a compatible 8-12V DC power adapter is securely connected. Check power outlet.
No RF signal output.	RF output is turned off (F3 key). Incorrect frequency or signal strength setting.	Press F3 to enable RF output. Verify frequency and signal strength settings are within the effective range.
No audio modulation.	Audio modulation is turned off (F4 key).	Press F4 to enable audio modulation. Ensure the modulation frequency is set to 800 Hz.
Display shows "invalid" or unexpected values.	Input values outside the device's operational range.	Refer to the Technical Specifications section for valid input ranges for frequency and signal strength.

10. WARRANTY AND SUPPORT

WnewTools products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official WnewTools website. Please have your model number (ATOOL1426021) and UPC (769902983117) available when contacting support.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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