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Srliya Srliya1fn5yde6cx

Srliya 0.5-470MHz RF Signal Generator Instruction Manual

Model: Srliya1fn5yde6cx

1. INTRODUCTION

This manual provides instructions for the Srliya 0.5-470MHz RF Signal Generator, designed for FM radio debugging and testing. It covers setup, operation, maintenance, and troubleshooting to ensure proper and safe use of the device.



Figure 1: Front view of the Sriya 0.5-470MHz RF Signal Generator, showing the display, keypad, and RF output port.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating this device. Failure to do so may result in damage to the device or personal injury.

- **Power Supply:** Use only an 8-12V DC power supply. Input power exceeding 0dBm can permanently damage the signal source.
- **Environment:** Operate the device in a dry, stable environment. Avoid exposure to extreme temperatures, humidity, or direct sunlight.
- **Handling:** Handle the device with care to prevent physical damage. Do not drop or subject it to strong impacts.
- **Ventilation:** Ensure adequate ventilation around the device to prevent overheating.

3. PRODUCT OVERVIEW

3.1. Key Features

- **Frequency Range:** 0.5-470MHz
- **Output Strength:** -70 to -132dBm
- **Audio Modulation:** Built-in 800Hz
- **CTCSS Function:** Analog and Digital
- **Display:** 7-digit frequency display for clear readability
- **Power Supply:** Adaptive 8-12V DC

3.2. Components

The device features a clear display screen, a numeric keypad, and dedicated function keys for intuitive operation. The RF output port is located on the front panel.



Figure 2: Angled view highlighting the display and control buttons.

4. SPECIFICATIONS

Parameter	Value
Frequency Range	0.5-470MHz
Output Strength	-70 to -132dBm
Audio Modulation	Built-in 800Hz
Power Supply	8-12V DC
Frequency Display	7 Digits (e.g., 439012.5KHz displayed as 4390125)
Dimensions	8.66 x 5.51 x 4.33 inches
Weight	13.09 ounces
Material	ABS

5. SETUP

Follow these steps for initial setup:

1. Connect the 8-12V DC power supply to the device's power input port.
2. Connect the RF output port (BNC connector) to your testing equipment (e.g., spectrum analyzer, frequency counter) using an appropriate coaxial cable.
3. Ensure all connections are secure before powering on the device.

6. OPERATION

6.1. General Operation

The device features a numeric keypad for direct value input and function keys for mode selection and control.



Figure 3: Top-down view of the control panel, showing the display and keypad layout.

Key Functions:

- **F1:** Cycles selection of the set item. The cursor will point to the currently selected item (Frequency, Strength, Audio Modulation Frequency).
- **F2:** Backspace key for correcting input errors.
- **F3:** Toggles RF output On/Off.
- **F4:** Toggles Audio Modulation On/Off.
- **Numeric Keys (0-9):** Directly enter values for the selected item.
- **Up/Down Keys ($\wedge$ / $\vee$):** Increment or decrement the value of the selected item.

6.2. Intercom Source Mode

In Intercom Source Mode, the display shows two lines of information:

- **First Line:** The left side displays the current Frequency (0.5-470M), and the right side displays the Output Power (-70 to -132dBm).

- **Second Line:** The left side displays the Subtone (50.0-280.0Hz, supporting any analog subtone and 105 groups of digital subtone). The right side displays the Modulation Tone System (0-3K, where 0K indicates modulation tone is off).

Intercom Source Mode Key Functions:

- **Numeric Keys:** Directly enter values for the item currently indicated by the cursor.
- **Up/Down Keys:** Adjust the value of the item currently indicated by the cursor.
- **F1 Key:** Moves the cursor to select different items on the display.
- **F2 Key:** Backspace key for correcting input.
- **F3 Key:** Functions as a cycle switch for output power, subtone, or modulation tone when the cursor points to these specific items.
- **F4 Key:** Not used in Intercom Source Mode.

Subtone Setting:

1. **Analog Subtone:** To set an analog subtone, directly input 4 digits. For example, to set 88.5Hz, input "0885".
2. After direct input, using the Up/Down keys will adjust the subtone in 0.1Hz steps.
3. To adjust using standard subtone steps (e.g., starting from 67Hz), first input "0000" and then use the Up/Down keys to cycle through the standard subtone values.

7. MAINTENANCE

To ensure the longevity and proper functioning of your device, follow these maintenance guidelines:

- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or solvents.
- **Protection:** Avoid exposing the device to liquids, corrosive substances, or strong magnetic fields.
- **Storage:** Store the device in a cool, dry place when not in use.
- **Service:** Do not attempt to open or repair the device yourself. Refer to qualified service personnel for any repairs or internal maintenance.

8. TROUBLESHOOTING

This section addresses common issues you might encounter and their potential solutions.

Problem	Possible Cause	Solution
Device does not power on	Incorrect power supply; loose power connection	Verify the power supply is 8-12V DC; check that the power cable is securely connected.
No RF output	Output disabled; incorrect frequency/strength settings; faulty cable	Press F3 to ensure output is enabled; check frequency and strength settings; inspect RF cable for damage.
Display shows incorrect values	Input error; temporary glitch	Use F2 (Backspace) to correct input; re-enter values carefully. If issue persists, power cycle the device.
Audio modulation not working	Audio modulation disabled	Press F4 to enable audio modulation.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your retailer. The manufacturer of this product is Sriya.

Manufacturer: Sriya

Model Number: Sriya1fn5yde6cx

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