

ROROLL WS-6916

ROROLL WS-6916 Digital Satellite Finder Meter User Manual

Model: WS-6916

1. INTRODUCTION

This user manual provides comprehensive instructions for the ROROLL WS-6916 Digital Satellite Finder Meter. It is designed to assist users in setting up, operating, and maintaining the device for optimal performance in satellite dish alignment. Please read this manual thoroughly before using the product.

2. PRODUCT OVERVIEW

The ROROLL WS-6916 is a portable digital satellite finder meter equipped with a 3.5-inch high-definition TFT LCD screen. It supports MPEG-2/H.265(8 bit) hardware decoding and offers various functions for efficient satellite signal acquisition and analysis.

2.1 Key Features

- 3.5-inch high definition TFT LCD screen.
- MPEG-2/H.265(8 bit) hardware decoding.
- Signal strength, BER, MER, S/N, and power measurement.
- Signal lock indication with panel LED and sound.
- Supports DiSEqC 1.0/1.1, 1.2/USALS, and 22kHz tone.
- Auto, blind, manual, and NIT scan modes.
- Software upgrade and file transfer via USB.
- LNB short protection.
- Built-in 7.4V/3000mAh Li-ion battery for approximately 4 hours of operation.
- Integrated speaker.
- Supports both AV out and AV in.
- Automatic angle calculation for Azimuth (AZ) and Elevation (EL).

2.2 Device Layout

Familiarize yourself with the device's buttons and ports.

WS-6916

Menu



Satellite Find



Loop Search



Program Info



Angle Calculation



Multimedia



Satellite Installation



Others



System Setting

POWER

22K

13V/18V

LOCK

CHARGE

F1

F2

F3

SCAN

AV-S

MENU

EXIT

1

2

3

4

5

6

7

8

9

TTXT

SUBT

INFO

0

MUTE

TV/R

AUDIO

Figure 1: Front view of the WS-6916 Satellite Finder Meter. This image displays the 3.5-inch LCD screen with a menu interface, along with the numerical keypad, navigation buttons (MENU, EXIT, OK, arrow keys), and function buttons (F1, F2, F3, SCAN, AV-S, TTXT, SUBT, TV/R, AUDIO, INFO, MUTE).



Figure 2: Rear and side view of the WS-6916. This image highlights the LNB input, AV input/output ports, USB port, 12V DC power input, power switch, and integrated speaker.

3. SETUP

3.1 Initial Charging

Before first use, fully charge the device's built-in Li-ion battery. Connect the provided power adapter to the DC 12V/1.5A input port on the device and plug it into a power outlet. The 'CHARGE' indicator LED will illuminate during charging.



Figure 3: Illustration of the 7.4V 3000mAh Li-ion rechargeable battery and the DC power input port for charging.

3.2 Connecting to Satellite Dish

1. Ensure the satellite finder is powered off.
2. Connect the LNB cable from your satellite dish to the "SATELLITE INPUT" F-type connector on the device.
3. If connecting to a receiver, connect the receiver's LNB output to the "LOOP OUT" port (if available and required by your setup).
4. Power on the device using the power switch.

4. OPERATING INSTRUCTIONS

4.1 Navigating the Menu

Use the **MENU** button to access the main menu. Use the arrow keys **UP**, **DOWN**, **LEFT**, **RIGHT**) to navigate through options and the **OK** button to confirm selections. The **EXIT** button returns to the previous screen or exits the menu.

4.2 Satellite Finding

1. From the main menu, select "Satellite Find".
2. Choose the desired satellite from the list. If the satellite is not listed, you may need to add it or

perform a blind scan.

3. Adjust the satellite dish's azimuth and elevation angles while observing the signal strength and quality indicators on the screen. The device provides real-time feedback on signal strength (dBm), Bit Error Rate (BER), Modulation Error Ratio (MER), and Signal-to-Noise ratio (S/N).
4. When a strong signal is detected, the "LOCK" LED on the panel will illuminate, and an audible tone will sound. Fine-tune the dish for maximum signal quality.



Figure 4: The WS-6916 in use, displaying signal parameters such as strength, BER, MER, and S/N, which are crucial for accurate satellite dish alignment.

4.3 DiSEqC Settings

The device supports DiSEqC 1.0/1.1, 1.2/USALS. Access these settings through the "Satellite Installation" or "System Setting" menu to configure for multiple LNBs or motorized dishes.

4.4 AV Input/Output

The WS-6916 features both AV input and output capabilities. Use the provided AV cable to connect external devices. The AV output can display the meter's screen on a larger monitor, while the AV input allows viewing external video sources on the meter's screen.



Figure 5: Connection diagram illustrating the AV IN and AV OUT ports, and how to connect them to external video and audio devices.

4.5 Software Upgrade and File Transfer

Connect the device to a computer via the USB port for software upgrades or to transfer multimedia files (WMA, MP3, MP4, AVI, JPG, JPEG, BMP, IMG) to and from the device. Ensure the correct firmware file is used for upgrades to prevent damage.

5. MAINTENANCE

5.1 Battery Care

- To prolong battery life, avoid fully discharging the battery frequently.
- Charge the device regularly, even if not in use for extended periods (e.g., once every 3 months).
- Store the device in a cool, dry place away from direct sunlight.

5.2 Cleaning

Wipe the device with a soft, dry cloth. Do not use liquid cleaners or abrasive materials, as they may damage the screen or casing.

5.3 Storage

When not in use, store the satellite finder in its protective pouch in a dry environment to prevent dust and moisture damage.

6. TROUBLESHOOTING

- **No Signal Detected:**
 - Check all cable connections between the LNB and the meter.
 - Ensure the LNB is powered (check LNB supply voltage in settings).
 - Verify correct satellite parameters (frequency, symbol rate, polarization) are selected.
 - Confirm the satellite dish is aimed correctly.
- **Device Not Powering On:**
 - Ensure the battery is charged. Connect to the power adapter.
 - Check the power switch position.
- **LNB Short Protection Activated:**
 - Disconnect the LNB cable immediately.
 - Inspect the LNB cable and connector for any damage or short circuits.
 - Replace faulty cables or LNBs as necessary.
- **Screen Display Issues:**
 - Ensure the device is adequately charged.
 - If the screen is frozen, try restarting the device.

7. SPECIFICATIONS

Detailed technical specifications for the ROROLL WS-6916 Digital Satellite Finder Meter.

Category	Specification
Model	WS-6916
Material	ABS
SATELLITE INPUT/DEMODULATION	
Connector Type	F type
Input Frequency	950-2150MHz
Signal Input Level	-65~-25dBm
Band Switch Control	22KHz
LNB Supply	13V/18V, IMax 400mA
Demodulation Type	QPSK / 8PSK
Symbol Rate	2-45Mband (SCPC/MCPC)
LCD FEATURES	
LCD Type	TFT transmissive
Number of Dots	480(RGB)*272

Category	Specification
Active Area	70.02 * 52.58mm (W*H)
AV OUTPUT INTERFACE	
Connector Type	3.5mm jack
Video Output	CVBS
Audio Output	Stereo audio L/R output
AV INPUT INTERFACE	
Connector Type	3.5mm jack
Video Input	CVBS
Audio Input	Stereo audio L/R input
DATA SERVICE PORT	
Connector	USB
Data Protocol	USB2.0 interface
File Management System	NTFS, FAT32, FAT16
File Format Support	WMA, MP3, MP4, AVI, JPG, JPEG, BMP, IMG
MICROPROCESSOR	
Microprocessor	78346
Clock Frequency	550MHz
SDRAM Memory	DDR2 512Mbit
POWER SUPPLY	
Li-ion Battery	1 * 7.4V, 3000mAh
Adapter Output	DC12V/1.5A
Adapter Input	100-240VAC 50/60Hz
Power Consumption	Max. 10W
PHYSICAL CHARACTERISTICS	
Item Size	17.7 * 10.1 * 4.7cm / 6.97 * 3.97 * 1.85in
Item Weight	743g / 26.23oz
Package Weight	1112g / 39.22oz
Package Size	22.6 * 22 * 7cm / 8.90 * 8.66 * 2.76in

