

SUNROAD FR500

User Manual: SUNROAD FR500 Multifunction Digital Altimeter

Model: FR500 | Brand: SUNROAD

1. INTRODUCTION

The SUNROAD FR500 is a versatile handheld digital device designed for outdoor enthusiasts, offering a comprehensive suite of functions including an altimeter, barometer, compass, thermometer, hygrometer, pedometer, and a built-in flashlight. This device is engineered to provide essential environmental data and navigation assistance for various outdoor activities such as hiking, camping, and mountaineering. Key features include a clear LCD digital display for easy readability, 24-hour altitude record and trend charts, and a durable, lightweight design suitable for rugged outdoor conditions. It is powered by a convenient built-in rechargeable battery.

2. PACKAGE CONTENTS

Upon opening the package, please verify that all the following items are included:

- 1 x SUNROAD FR500 Multifunction Digital Altimeter
- 1 x USB Charging Cable
- 1 x Cleaning Cloth
- 1 x User Manual (this document)



Image: Contents of the SUNROAD FR500 package, including the device, USB charging cable, and cleaning cloth.

3. PRODUCT OVERVIEW

The SUNROAD FR500 features a compact and ergonomic design, making it comfortable to hold and easy to operate during outdoor activities. The large LCD screen provides clear digital readouts of various parameters.



Image: Front view of the SUNROAD FR500, showcasing its LCD display and overall design.

3.1 Controls and Display

The device is equipped with several buttons for navigation and function selection, along with a clear LCD display that shows various data points and indicators.

GENERAL SETTINGS



Image: Diagram illustrating the button layout and functions on the SUNROAD FR500.

- **Button A (HISTORY/SET):** Used to access historical data records and enter settings mode.
- **Button B (COMPASS/VIEW):** Activates the compass function and cycles through different display views.
- **Button C (ALTI/UP):** Used to navigate upwards in menus or adjust values, and for altimeter-related functions.
- **Button D (BARO/DOWN):** Used to navigate downwards in menus or adjust values, and for barometer-related functions.
- **FLASH LIGHT/BACK LIGHT Button:** Activates the built-in flashlight and controls the display backlight.

4. SETUP

4.1 Charging the Device

The SUNROAD FR500 features a built-in rechargeable battery. Before first use, or when the battery indicator shows low power, connect the device to a USB power source using the provided USB charging cable. A full charge typically takes a few hours. The charging indicator on the display will show the charging status.

4.2 Initial Power On

To power on the device, press and hold the power button (refer to the product overview for button location) for a few seconds until the display illuminates. The device will typically start in its default mode, often displaying time or altitude.

4.3 Basic Settings (Time, Date, Units)

After powering on, it is recommended to set the correct time, date, and preferred measurement units (e.g., meters/feet for altitude, Celsius/Fahrenheit for temperature). Access the settings menu by pressing and holding Button A (HISTORY/SET). Use Buttons C (ALTI/UP) and D (BARO/DOWN) to navigate through options and adjust values, and Button A or B to confirm selections and move to the next setting.

5. OPERATING INSTRUCTIONS

The SUNROAD FR500 integrates multiple functions essential for outdoor activities. Familiarize yourself with each mode to maximize the device's utility.



Image: The SUNROAD FR500 showcasing its common outdoor functions: Time, Date, Alarm Clock, and Compass.

5.1 Altimeter Mode

The altimeter measures your current altitude. The device can display 24-hour altitude records and trend charts, allowing you to monitor changes in elevation over time. To view altitude data, cycle through modes using the appropriate button (often Button C or a dedicated mode button). The trend chart provides a visual representation of altitude changes, which is useful for tracking ascent and descent during a hike.

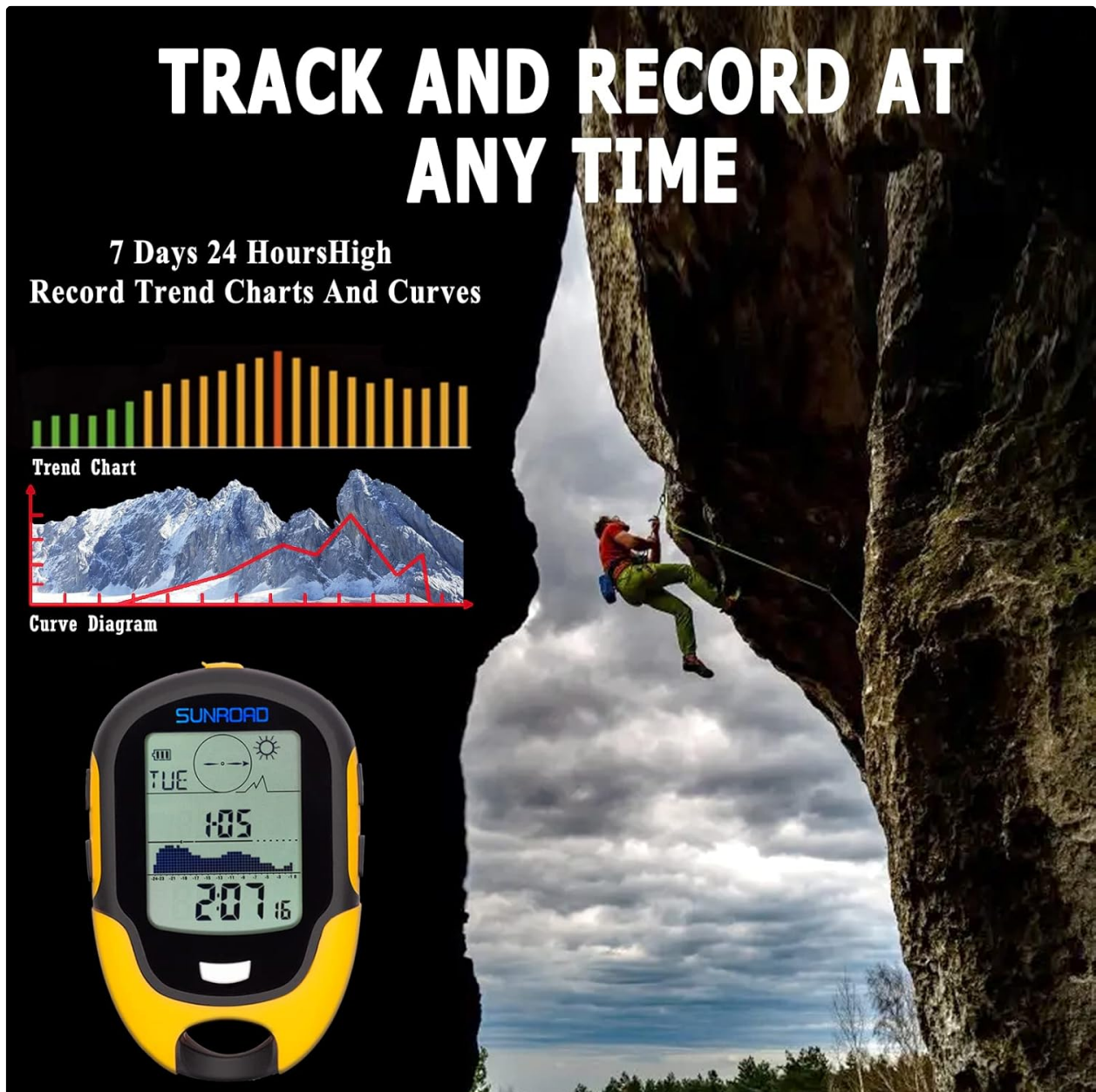


Image: The SUNROAD FR500 showing 7-day, 24-hour high record trend charts and curves for altitude tracking.

5.2 Barometer Mode

The barometer measures atmospheric pressure. Changes in atmospheric pressure can indicate changes in weather conditions. Monitor the barometric pressure readings to anticipate weather shifts. This function is often integrated with the weather forecast feature.

5.3 Compass Mode

The digital compass provides directional guidance. For accurate readings, ensure the device is held level and away from strong magnetic fields. Calibration may be required periodically or after significant changes in location. Refer to the on-screen prompts or specific instructions in the manual for compass calibration procedures.

5.4 Thermometer and Hygrometer

The device displays current ambient temperature and humidity. These readings are useful for assessing environmental conditions. The device can also record historical highest and lowest values for atmospheric pressure, temperature, and humidity.



Image: The SUNROAD FR500 displaying historical data for atmospheric pressure, weather, temperature, and humidity records.

5.5 Pedometer Mode

The pedometer tracks your steps taken. Activate this mode to count your steps during walking or hiking activities. Ensure the device is securely carried for accurate step counting.

5.6 Weather Forecast

Based on barometric pressure trends, the device provides a basic weather forecast. This is typically indicated by icons on the display representing sunny, cloudy, rainy, etc. Use this as a general guide for planning outdoor activities.

5.7 Flashlight

The built-in flashlight provides illumination in low-light conditions. Press the FLASH LIGHT/BACK LIGHT

button to activate the flashlight. Press it again to turn it off or to cycle through backlight settings.

6. MAINTENANCE

6.1 Cleaning

To clean the device, use the provided cleaning cloth or a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the device openings. Avoid using abrasive cleaners or solvents.

6.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, especially if it has not been used for an extended period. Store the device with a partial charge (around 50%) if storing for long durations.

6.3 Storage

Store the SUNROAD FR500 in a cool, dry place away from direct sunlight and extreme temperatures. Keep it away from strong magnetic fields, which can affect compass accuracy.

7. TROUBLESHOOTING

If you encounter issues with your SUNROAD FR500, refer to the following common problems and their solutions:

- **Device not powering on:** Ensure the battery is charged. Connect to a USB power source and attempt to power on again.
- **Inaccurate Altimeter/Barometer readings:** Environmental conditions can affect accuracy. Ensure the device is properly calibrated if a calibration option is available. For altimeter, ensure you are not in an enclosed space.
- **Compass not accurate:** Perform a compass calibration as per the device's instructions. Ensure you are away from strong magnetic fields (e.g., large metal objects, other electronic devices).
- **Display is dim or blank:** Check battery level. Adjust backlight settings using the FLASH LIGHT/BACK LIGHT button.
- **Charging issues:** Ensure the USB cable is securely connected to both the device and the power source. Try a different USB port or power adapter.

If the problem persists after attempting these solutions, please contact customer support.

8. SPECIFICATIONS

Feature	Detail
Model	FR500
Brand	SUNROAD
Display Type	LCD
Power Source	Battery Powered (Rechargeable)



Feature	Detail
Material	Acrylic
Color	Yellow
Item Weight	0.1 Kilograms
Item Dimensions (LxWxH)	3.94 x 0.79 x 2.6 inches
Temperature Accuracy	0.5 °C
Special Features	Alarm, Clock, Hygro, Thermometer, Altimeter, Barometer, Compass, Pedometer, Flashlight, Weather Forecast
Sensor Technology	Swiss
UPC	717080881381, 709127280714, 602731979701, 796389780809

9. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the warranty card included in your package or visit the official SUNROAD website. Keep your purchase receipt as proof of purchase.

If you require technical assistance, have questions about product functionality, or need to report an issue, please contact SUNROAD customer support through their official channels. Contact details can typically be found on the manufacturer's website or in the product packaging.

Related Documents - FR500

	<p>Shenzhen Jumper Medical Equipment Export Certificate - Product List</p> <p>Official certificate for the exportation of medical products manufactured by Shenzhen Jumper Medical Equipment Co., Ltd., listing product names, models, and registration numbers.</p>
	<p>CNH Industrial Reman Application Guide: New Holland Parts</p> <p>Comprehensive application guide for CNH Industrial Reman parts, featuring New Holland driveline, electronics, engines, fuel, hydraulics, rotating electrical, and turbochargers. Details product value, warranty, and applications.</p>

Local Representative Letter
For Certification Service in the USA

Federal Communication Commission
Equipment Authorization Division, Equipment Processing Branch
15815 Andover Mills Road
Columbia, MD 21048



To whom it may concern

Pursuant to Section 2.911(b)(6)(7), of the Commission's 47 C.F.R.7, I warrant as follows for the product I intend to introduce:

FCC ID	Model Name
280A.G3	GPS, HPS, HIRSD, CJC,JC,CJC,C30

We hereby certify that as follows:

- both agrees confirm that the point of contact accepts responsibility to act as a U.S.-American Representative on behalf of the applicant;
- the point of contact provides the physical U.S. address and email as listed below;
- both parties maintain the requirement of this agreement for no less than one year after the grantee has terminated all marketing and importation on the condition of any Commission-related proceeding involving the equipment;
- An expiration date for this letter does not exist. In case the U.S. agent changes, the grantee is obligated to notify the FCC within 30 days of the writing the FCC.

U.S-American Point of Contact		Applicant/Approval Holder	
 Guy Chen Mobile: 866-202-5-580		 Vivian Zhang	
Company Name: GUCOTECH TECHNOLOGY INC. FAX: 000097077		SUNRADIO INC. 000097178	
Contact Name: Huaying Fan		Vivian Zhang	
Address: 12784 SUNSETTOWN BOULEVARD, RIVERVIEW, CA 92267		6927 W Academy Blvd 82266 Colorado Springs CO 80918 US	
Phone: (626) 588-8039 Email: huaying.fan@gucotem.com		(721) 219-3885 5322 vivian@sunradio.net	

Page 1 of 21

Report No.: AITDG-2023200618F-1

TEST REPORT

Product Name : Multifunction GPS altimeter
Brand Name : NA
Model : GPS
Series Model : FR510, FR500, C3, C7, C8, C9, C10
FCC ID : 2B304-GPS
Applicant :
Address :
Manufacturer :
Address :
Standard(s) :
Date of Receipt :
Date of Test :
Issued Date :

Issued By: Guangdong Asia Hongkong Test Technology Limited
B1/F, Building 11, Janting Industrial Park, Changping Road, Heping Street, Baolan District, Shenzhen, Guangdong, China
Tel.: +86-0755-230067639 Fax: +86-0755-230067639

Reviewed by:





Leach yi

Approved by:

Sean She

Note: This document has been tested and found to comply with the standard(s) listed. This test report remains confidential to the test sample. It is not permitted to copy or publish these test results without the written permission of the test laboratory. This document is the property of Guangdong Asia Hongkong Test Technology Limited. It is not to be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without prior written permission from Guangdong Asia Hongkong Test Technology Limited. If there is a need to alter or reuse the information, the right belongs to Guangdong Asia Hongkong Test Technology Limited, and a written permission is required of the relevant department. This test report must not be used by the client for any product advertisement.

Guangdong Asia Hongkong Test Technology Limited
B1/F, Building 11, Janting Industrial Park, Changping Road, Heping Street, Baolan District, Shenzhen, Guangdong, China

	Flux Technology Service Laboratory.	
	Room 102 Floor 804 has Technology Building 1 No.15 Gong yu Xian Road Hi-Tech Industries (along with Xian Dongguan) Tel: 076-27200201 http://www.ftx-hk.com	
ATTESTATION OF CONFORMITY		
Certificate No.	FCSR02021013361	
Model(s) No.	SPORTS ELECTRONIC PRODUCTS	
Brand Name	SUNROAD	
Model(s) No.	FR150	
Series Model	FR500, FR720, FR730, FR732, FR733, FR735, FR851, FR862, FR904, FR935, FR961, FR962, T3, C3, G3	
Holder	SUNROAD TECHNOLOGY LIMITED	
Address	390, Block A, Building B, Qinghu Science Park, Qingxiang Road, Longhua District, Shenzhen	
Manufacturer	SUNROAD TECHNOLOGY LIMITED	
Address	390, Block A, Building B, Qinghu Science Park, Qingxiang Road, Longhua District, Shenzhen	
Report No.	FCSD02021013361	
<p>This product has been tested according to the following standard United States FCC Part 15 Subpart B and ANSI C63-A:2014.</p> <p>This device has been tested and found to comply with the stated standard(s), which is/are Required by the Federal Communications Commission. The test results are reproduced in the test report are applicable only to the test sample identified in the report.</p>		
	Approved by: 	
	Nov. 01, 2022 Jack Wong/Mengxiang	
		

Altitude, Barometer, Compass, Hygrometer, Thermometer
Weather forecast, LED torch, Alarm clock, Time/date

Multifunction Digital Altimeter



USER MANUAL

[\[pdf\]](#)

DESKTOP OBPLJ1L 2BO3A GPS US agent SUNROAD INC Multifunction altimeter 2BO3AGPS gps

Local Representative Letter For Certification Service in the USA Federal Communications Commission ... R. we attest as follows for the product listed below:

FCC ID Model name 2BO3A-GPS GPS, FR510; **FR500**; C3;C7;C8;C9;C10 We hereby acknowledge as follows: i. both signees confirm that the point of...

lang:en score:26 filesize: 155.93 K page_count: 1 document date: 2025-05-16

[\[pdf\]](#) Test Report

AiTDG 250328016FE1 Test Report FCC Part 15B SUNROAD INC GPS Multifunction altimeter 2BO3A
2BO3AGPS gps

Page 1 of 21 Report No.: AiTDG-250328016FE1 TEST REPORT Product Name :
Multifunction GPS altimeter Brand Name : N/A Model : GPS Series Model : FR510;
FR500; C3;C7;C8;C9;C10 FCC ID 2B03A-GPS Applicant : SUNROAD INC. Address :
6547 N Academy Blvd #2266 Colorado Springs CO 80918 US Manufa...
lang:en score:25 filesize: 2.32 M page_count: 21 document date: 2025-05-19

[\[pdf\]](#) Decleration of Conformity Test Report

Windows User RAPORT Z TESTÓW FCC smartwatchwholesale SDOC v 1682662595 cdn shopify s files
1 0738 7168 7962 |||

Flux Compliance Service Laboratory. Room 105 Floor Bao hao Technology Building 1
NO.15 Gong ye West ... nufacturer Address Report No. : FCSR20221013301 :
SPORTS ELECTRONIC PRODUCTS : SUNROAD : FR510 **FR500**,
FR204,FR720,FR730i,FR731,FR778,FR851, :
FR922,FR934,FR935,FR861,FR862,T3, G3,G5 : SUNROAD TE...

lang:en score:21 filesize: 166.64 K page count: 1 document date: 2022-11-02

[\[pdf\]](#) User Manual

FR500 Manual 20140705 en new Thermometer Weather forecast LED torch Alarm clock Time date
Multifunction Digital Altimeter SUNROAD m 4 MO! II 026 9383 USER MANUAL Title Author Created Date
20141107071132Z eng servco ru manuals dogtek 80

lang:en score:10 filesize: 3.1 M page_count: 14 document date: 2014-11-07