

LifeSmart LS-946

LifeSmart LS-946 2TwoPlus Blood Glucose and Ketone Monitoring System

Model: LS-946 | Brand: Lifesmart

1. INTRODUCTION

The LifeSmart LS-946 2TwoPlus Blood Glucose and Ketone Monitoring System is designed for accurate measurement of blood glucose, hematocrit, and ketone levels. This system is suitable for a wide range of users, from infants to adults, due to its broad hematocrit range (0-70%). It features smartphone connectivity for real-time data transfer, viewing, and analysis, enabling users to share their health data with healthcare professionals or family members.



Figure 1: The LifeSmart LS-946 2TwoPlus meter displaying a reading, alongside key features such as 5-second results, 2+2 Bio-Signal Technology, lifetime warranty, and compatibility with LS-946 test strips. It highlights features like 0-70% HCT range, GDH-FAD enzyme, 3 parameters (Glucose, HCT, Ketone), no coding required, 1.0µL sample size, and a backlight screen.

2. KEY FEATURES

- **Multi-Parameter Measurement:** Accurately measures blood glucose, hematocrit (HCT), and ketone levels.
- **Wide Hematocrit Range:** Supports a 0-70% hematocrit range, suitable for diverse patient populations.
- **Smartphone Connectivity:** Enables real-time data transfer, viewing, and analysis via a dedicated mobile application.
- **Data Sharing:** Facilitates sharing of health data with doctors, dieticians, or family members.
- **Enzyme Type:** Utilizes GDH-FAD for glucose and HBD for ketone measurements.
- **Ketone Warning:** Provides alerts for elevated ketone levels.
- **Small Sample Size:** Requires only 1.0 µL of blood for testing.
- **Fast Results:** Delivers results in approximately 5 seconds.
- **Memory Capacity:** Stores up to 1000 memory sets with Date/Time/AC/PC tags.
- **Average Calculations:** Provides 7, 14, 21, 28, 60, and 90-day average readings.
- **No Coding:** Eliminates the need for manual coding, simplifying the testing process.
- **Backlight Screen:** Ensures readability in various lighting conditions.

3. SETUP

1. **Unpack the System:** Carefully remove all components from the packaging. Verify that the meter, lancing device, lancets, test strips (glucose and ketone), control solution (if included), and user manual are present.
2. **Install Batteries:** Open the battery compartment on the back of the meter and insert the required batteries, ensuring correct polarity. Close the compartment securely.
3. **Set Date and Time:** Power on the meter. Follow the on-screen prompts or refer to the detailed instructions in the full manual to set the current date and time. Accurate date and time settings are crucial for proper record-keeping.
4. **Prepare Lancing Device:** Insert a new lancet into the lancing device according to its specific instructions. Adjust the penetration depth setting as needed for your skin type.
5. **Insert Test Strip:** The LS-946 system is "No Coding." Insert the appropriate test strip (glucose or ketone) into the meter. The meter will automatically recognize the strip type.
6. **Connect to Smartphone (Optional):** Download the LifeSmart mobile application from your device's app store. Follow the app's instructions to pair your LS-946 meter via Bluetooth for data synchronization.

4. OPERATING INSTRUCTIONS

4.1 Blood Glucose Testing

1. Wash your hands thoroughly with soap and warm water, then dry them completely.
2. Prepare the lancing device with a fresh lancet.
3. Insert a new LS-946 Blood Glucose Test Strip into the meter. The meter will turn on automatically and display a blood drop symbol.
4. Prick the side of your fingertip with the lancing device to obtain a blood sample.
5. Gently touch the tip of the test strip to the blood drop. The blood will be drawn into the strip. Do not apply blood to the top of the strip.
6. The meter will begin counting down (approx. 5 seconds). Your blood glucose result will appear on the display.
7. Record your result if not using the app, or ensure it syncs with the app.
8. Dispose of the used lancet and test strip safely in a sharps container.

4.2 Blood Ketone Testing

1. Follow steps 1-2 from Blood Glucose Testing.
2. Insert a new LS-946 β -Ketone Test Strip into the meter. The meter will turn on automatically and display a blood drop symbol.
3. Obtain a blood sample using the lancing device.
4. Gently touch the tip of the ketone test strip to the blood drop.
5. The meter will begin counting down. Your blood ketone result will appear on the display.

- 6. Record your result or ensure it syncs with the app.
- 7. Dispose of the used lancet and test strip safely.

5. MAINTENANCE





- **Cleaning the Meter:** Wipe the meter’s exterior with a soft, damp cloth. Do not immerse the meter in water or use harsh cleaning agents.
- **Storage:** Store the meter and test strips in a cool, dry place, away from direct sunlight and extreme temperatures. Keep test strips in their original vial with the cap tightly closed.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display.
- **Test Strip Expiration:** Always check the expiration date on the test strip vial. Do not use expired test strips as they may yield inaccurate results.
- **Quality Control:** Perform control solution tests regularly as recommended in the full user manual to ensure the meter and strips are working correctly.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Meter does not turn on.	Dead or incorrectly inserted batteries.	Check battery orientation or replace batteries.
Inaccurate readings.	Expired test strips, improper sample application, or meter malfunction.	Check strip expiration, re-test with new strip and proper technique, perform control solution test.
Error message on display.	Refer to the full user manual for specific error codes.	Consult the manual's error code section or contact customer support.
Cannot pair with smartphone.	Bluetooth off, app not installed, or pairing issue.	Ensure Bluetooth is on, reinstall app, restart both devices, try pairing again.

7. SPECIFICATIONS

Product Model:	LS-946 (SI-10006777)
Dimensions (L x W x H):	1 x 7 x 1 cm (Meter) / 10 x 70 x 10 mm (Packaging)
Weight:	1 Gram

	<p>LifeSmart MINS Curtain Motor Controller User Guide</p> <p>User guide for the LifeSmart MINS Curtain Motor Controller, detailing product instructions, specifications, interface definitions, installation, package contents, warranty, and attention points. Upgrade traditional curtains to smart control.</p>
<p>Cololight®</p> <p><small>Setting up your Cololight PLUS User Guide V1.0</small></p>	<p>Cololight PLUS User Guide V1.0: Setup, Features, and Specifications</p> <p>Comprehensive user guide for the LifeSmart Cololight PLUS ambient light. Covers product introduction, installation, features, specifications, app control, warranty, and declarations.</p>
<p>LS-320</p> <p></p> <p>Infrared Thermometer Instruction Manual</p> <p><small>Greenix Biotech Pty Ltd (LifeSmart) Release Version 1.0 Date of Issue: 201902</small></p>	<p>LifeSmart LS-320 Infrared Thermometer Instruction Manual</p> <p>Comprehensive instruction manual for the LifeSmart LS-320 Dual Mode Digital Infrared Thermometer, covering features, operation, safety precautions, troubleshooting, and specifications.</p>
<p></p> <p>INFRARED ZONE HEATING SYSTEM</p> <p><small>UNITED STATES Model No. LS-4P1500-HOM</small></p> 	<p>LIFESMART LS-4P1500-HOM Infrared Zone Heating System Owner's Manual</p> <p>Owner's manual for the LIFESMART LS-4P1500-HOM Infrared Zone Heating System. Provides essential safety instructions, operating procedures, maintenance guidelines, troubleshooting tips, and warranty information for optimal use.</p>
<p>LifeSmart® Energy Solutions</p> <p><small>Model No. LS-099GD Release Date: 201902</small></p>	<p>LifeSmart LS099GD Video Smart Door Lock User Guide</p> <p>This user guide provides comprehensive instructions for setting up and operating the LifeSmart LS099GD Video Smart Door Lock, including installation, features, access methods, app integration, and troubleshooting.</p>