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## Ultrak 830

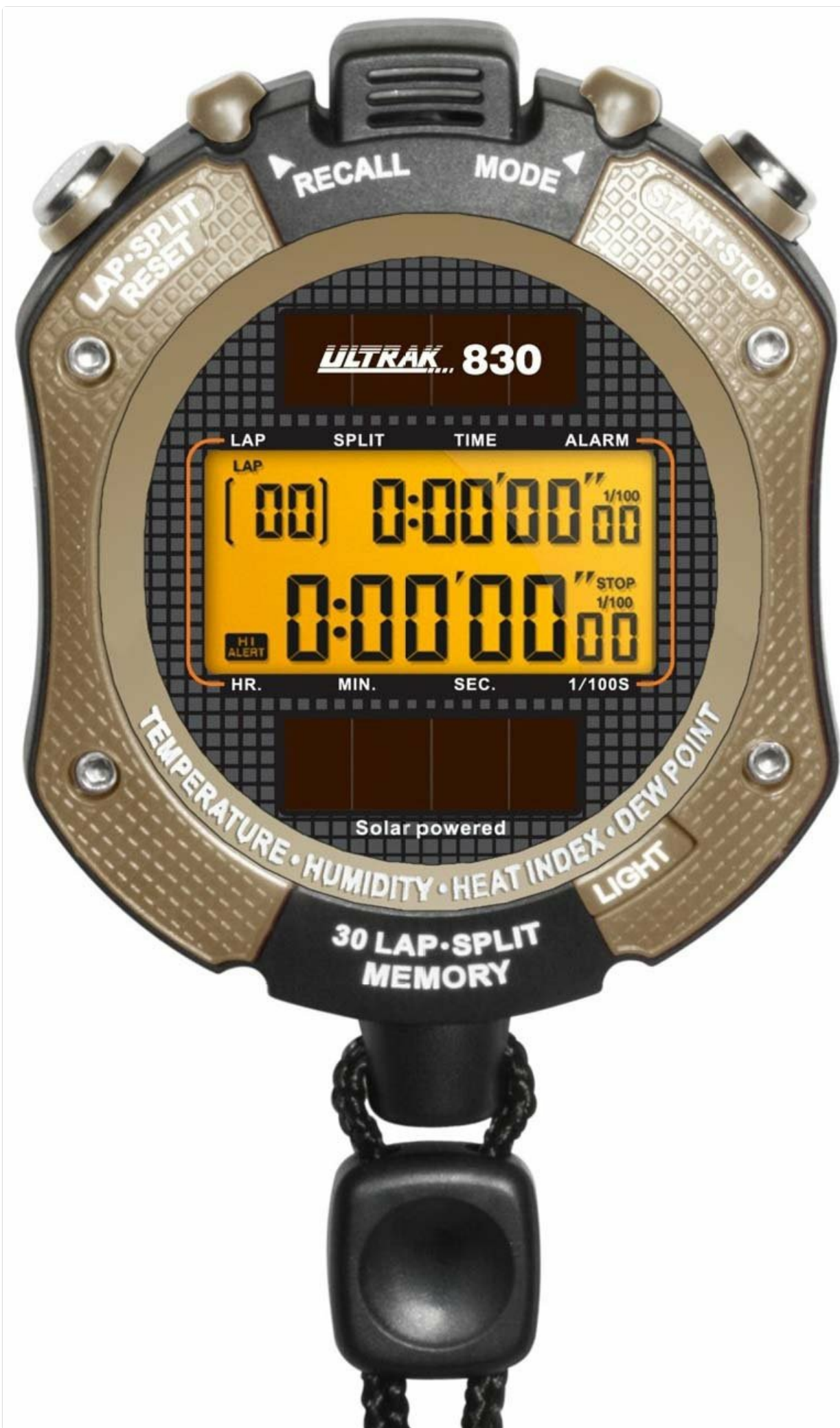
# Ultrak Heat Index Solar Powered Stopwatch Model 830 User Manual

Comprehensive instructions for setup, operation, and maintenance.

## 1. INTRODUCTION

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Thank you for choosing the Ultrak Heat Index Solar Powered Stopwatch, Model 830. This device is designed for precise timing and environmental monitoring, offering features such as temperature, humidity, heat index, and dew point calculations. It is ideal for athletes, coaches, and outdoor enthusiasts who require accurate data in various conditions. This manual provides detailed instructions to help you maximize the functionality and lifespan of your stopwatch.



**ULTRAK... 830**

LAP SPLIT TIME ALARM  
LAP  
( 00 ) 0:00'00" 1/100  
0:00'00" STOP 1/100  
HI ALERT  
HR. MIN. SEC. 1/100S

TEMPERATURE • HUMIDITY • HEAT INDEX • DEW POINT  
Solar powered  
LIGHT

**30 LAP-SPLIT MEMORY**

Figure 1: Front view of the Ultrak Heat Index Solar Powered Stopwatch, displaying its digital screen and control buttons.

## 2. KEY FEATURES

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- Accurate calculation of temperature, humidity, heat index, and dew point.
- 30 dual split recallable memory for tracking multiple laps or splits.
- Measures time up to 10 hours with 1/100 second resolution.
- Presetable countdown timer with an auto-repeat function.
- Displays time, calendar, and features an alarm function.
- LED backlight for visibility in low-light conditions.
- Solar-powered with a back-up lithium battery for continuous operation.
- Water-resistant design for use in various environments.

## 3. SETUP AND INITIAL USE

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### 3.1 Powering On

The Ultrak 830 is solar-powered. Ensure the solar panel on the front of the stopwatch is exposed to light for initial power-up. A built-in lithium battery provides backup power.

### 3.2 Setting Time and Date

1. In Time mode, press and hold the **MODE** button until the display flashes.
2. Use the **START/STOP** button to adjust the flashing digit (hours, minutes, seconds, year, month, day).
3. Press the **LAP/RESET** button to move to the next setting.
4. Once all settings are correct, press the **MODE** button to exit the setting mode.

### 3.3 Activating Backlight

Press the **LIGHT** button (usually located on the side or top) to illuminate the display for a few seconds in low-light conditions.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Stopwatch Function

1. From Time mode, press the **MODE** button repeatedly until "STOPWATCH" or a similar indicator appears.
2. Press **START/STOP** to begin timing.
3. Press **LAP/RESET** to record a lap/split time while the stopwatch continues running. The display will momentarily show the lap time.
4. Press **START/STOP** again to pause the stopwatch.
5. Press **LAP/RESET** while paused to reset the stopwatch to zero.

### 4.2 Recalling Memory

The stopwatch can store up to 30 dual split times. After stopping the stopwatch, press the **MEMORY** button (or a designated button, refer to on-device labels) to scroll through recorded lap and split times.

### 4.3 Countdown Timer

1. Navigate to the "TIMER" mode using the **MODE** button.

2. Press and hold **LAP/RESET** to enter setting mode.
3. Use **START/STOP** to adjust the hours, minutes, and seconds. Use **LAP/RESET** to move between digits.
4. Press **MODE** to confirm the setting.
5. Press **START/STOP** to begin the countdown. An alarm will sound when the timer reaches zero.
6. To activate auto-repeat, ensure this option is enabled in the timer setting mode (if available).

## 4.4 Heat Index and Environmental Readings

In the dedicated "HEAT INDEX" or "ENVIRONMENT" mode (accessed via the **MODE** button), the stopwatch will display current temperature, humidity, heat index, and dew point. Allow a few moments for the sensors to stabilize and provide accurate readings, especially after moving to a new environment.

## 4.5 Alarm Function

1. Go to "ALARM" mode using the **MODE** button.
2. Press and hold **LAP/RESET** to enter alarm setting mode.
3. Adjust the alarm time using **START/STOP** and move between digits with **LAP/RESET**.
4. Press **MODE** to confirm.
5. Toggle the alarm ON/OFF using **START/STOP** while in Alarm mode (not setting mode).

## 5. MAINTENANCE

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- **Cleaning:** Wipe the stopwatch with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store in a cool, dry place away from direct sunlight when not in use for extended periods.
- **Water Resistance:** The stopwatch is water-resistant, but not waterproof. Avoid submerging it in water or exposing it to high-pressure water jets.
- **Battery:** The solar panel charges the internal battery. Ensure regular exposure to light to maintain optimal battery life. No user-replaceable battery is required under normal operation.

## 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Display is blank or dim.	Insufficient light exposure for solar charging.	Expose the solar panel to bright light for several hours.
Incorrect time/date.	Time/date not set correctly or reset after power loss.	Refer to Section 3.2 "Setting Time and Date" to adjust.
Stopwatch not responding.	Temporary software glitch.	Attempt a soft reset by pressing all buttons simultaneously for a few seconds (if applicable, consult specific model instructions if available). If not, allow battery to fully drain and recharge.
Inaccurate environmental readings.	Sensor obstruction or not enough time for stabilization.	Ensure sensors are clean and unobstructed. Allow 5-10 minutes for readings to stabilize after moving to a new environment.

## 7. SPECIFICATIONS

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- **Model:** Ultrak 830
- **Timing Resolution:** 1/100 second
- **Maximum Timing Capacity:** 10 hours
- **Memory:** 30 dual split recallable memory
- **Environmental Sensors:** Temperature, Humidity, Heat Index, Dew Point
- **Power Source:** Solar powered with lithium backup battery
- **Display:** Digital with LED backlight
- **Water Resistance:** Yes (splash resistant, not submersible)
- **GTIN (UPC):** 743223008308

## 8. WARRANTY AND SUPPORT

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Ultrak products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your purchase or visit the official Ultrak website.

For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts, please contact Ultrak customer service through their official website or the contact information provided with your product packaging.

