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Magene H303

Magene H303 Heart Rate Monitor User Manual

Model: H303

1. Introduction

Thank you for choosing the Magene H303 Heart Rate Monitor. This device is designed to provide accurate heart rate data during your workouts, helping you optimize your training. The H303 features advanced ECG processing, dual ANT+/Bluetooth connectivity, and a user-friendly LED indicator.



Image 1.1: Magene H303 Heart Rate Monitor with chest strap.

The H303 utilizes an advanced ECG processing circuit and a self-developed algorithm to extract precise heart rate data, effectively minimizing interference from movement and sweat. This ensures highly accurate readings for enhanced training effectiveness.



Image 1.2: Comparison highlighting improvements in the H303, including optimized hardware, improved reliability, accuracy, and LED light interaction.

2. Package Contents

Please check the package to ensure all items are present:

- Magene H303 Heart Rate Sensor (x1)
- Adjustable Elastic Chest Strap (x1)
- CR2032 Battery (pre-installed or separate, x1)

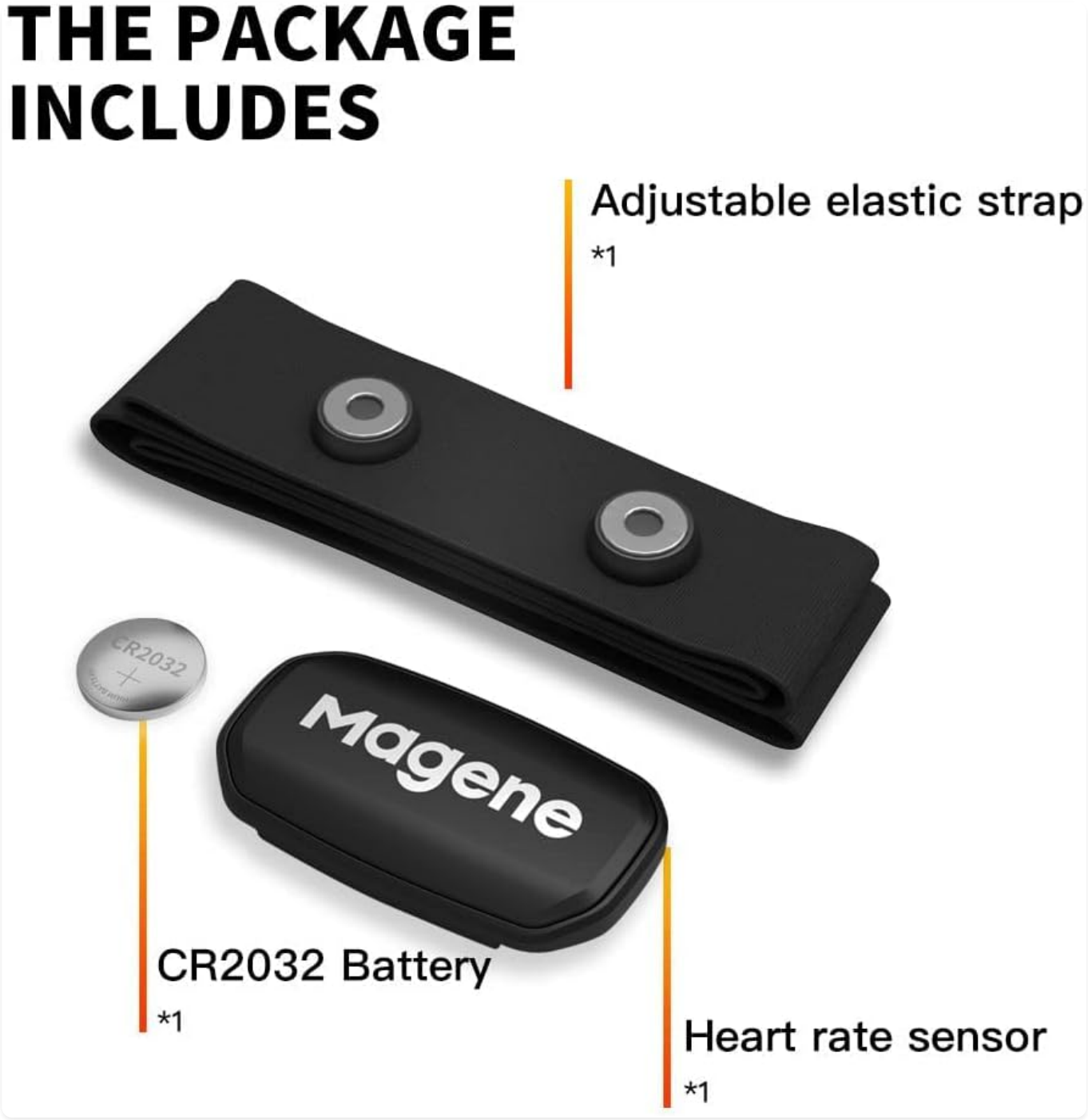

Image 2.1: The package includes the heart rate sensor, an adjustable elastic strap, and a CR2032 battery.

3. Setup

3.1 Battery Installation

The Magene H303 uses a CR2032 lithium metal battery. If the battery is not pre-installed or needs replacement:

1. Locate the battery cover on the back of the sensor unit.
2. Use a coin to gently twist the battery cover counter-clockwise to open it.
3. Insert the CR2032 battery with the positive (+) side facing upwards.
4. Place the battery cover back and twist clockwise to secure it.



Image 3.1: Illustration of the CR2032 battery being inserted into the sensor unit.

3.2 Attaching the Sensor to the Strap

Align the two snap fasteners on the back of the sensor with the corresponding connectors on the elastic chest strap. Press firmly until the sensor clicks securely into place.

4. Wearing the Heart Rate Monitor

1. Moisten the electrode areas on the back of the chest strap with water or electrode gel. This improves conductivity and ensures accurate heart rate detection.
2. Place the heart rate monitor directly on your skin, just below your chest muscles. The Magene logo should be facing upright.
3. Adjust the elastic strap to ensure a snug but comfortable fit. It should be tight enough to stay in place during activity but not restrict breathing.



Image 4.1: Proper placement of the heart rate monitor on the chest.

5. Operating the Device

5.1 Power On/Off

The Magene H303 automatically powers on when it detects a heart rate signal (i.e., when worn correctly on the body). It automatically powers off when removed from the body and no heart rate signal is detected for a period.

5.2 LED Indicator

The H303 features a blinking LED light to confirm heart rate detection and connection status:

- When the sensor is worn correctly and starts detecting heart rate, the LED on the front will flash red (it will turn off after 10 flashes to conserve battery).
- A red light indicates that the monitor is ready for use and transmitting data.



Image 5.1: The red LED light on the sensor indicates it is active and ready to transmit data.

5.3 Pairing with Devices

The H303 supports both ANT+ and Bluetooth protocols, allowing simultaneous recording on compatible devices and applications.

1. Ensure the heart rate monitor is worn and active (LED flashing).
2. On your fitness device (e.g., bike computer, GPS watch) or smartphone app, go to the sensor pairing or add device menu.
3. Select the Magene H303 from the list of available sensors.
4. Once paired, your device/app will display your real-time heart rate.

6. Compatibility

The Magene H303 offers broad compatibility with various fitness devices and applications through its dual ANT+ and Bluetooth connectivity.

6.1 ANT+ Compatible Devices:

- Magene
- Wahoo
- IGPSPORT

- Bryton
- Black Bird
- Other ANT+ enabled devices

6.2 Bluetooth Compatible Apps:

- Zwift
- Onelap
- Strava
- Kinomap
- Wahoo Fitness
- TrainerRoad
- Rouvy
- Fulgaz
- Nike Run Club
- Openrider
- Elite HRV
- Other Bluetooth Smart (BLE) heart rate compatible apps



Image 6.1: The H303 supports simultaneous data recording via ANT+ devices and Bluetooth apps.

7. Maintenance

7.1 Cleaning

After each use, detach the sensor unit from the chest strap. Rinse the elastic strap under running water and hang it to dry. Do not machine wash or tumble dry. Wipe the sensor unit with a soft, damp cloth. Do not use abrasive cleaners or

chemicals.

7.2 Battery Replacement

Refer to Section 3.1 for instructions on how to replace the CR2032 battery when needed. A typical battery life is approximately 1000 hours of use.

7.3 Water Resistance

The Magene H303 is IP67 rated, meaning it is dustproof and resistant to immersion in water up to 1 meter for 30 minutes. It is suitable for use in rain and sweaty conditions but is **not recommended for swimming**.

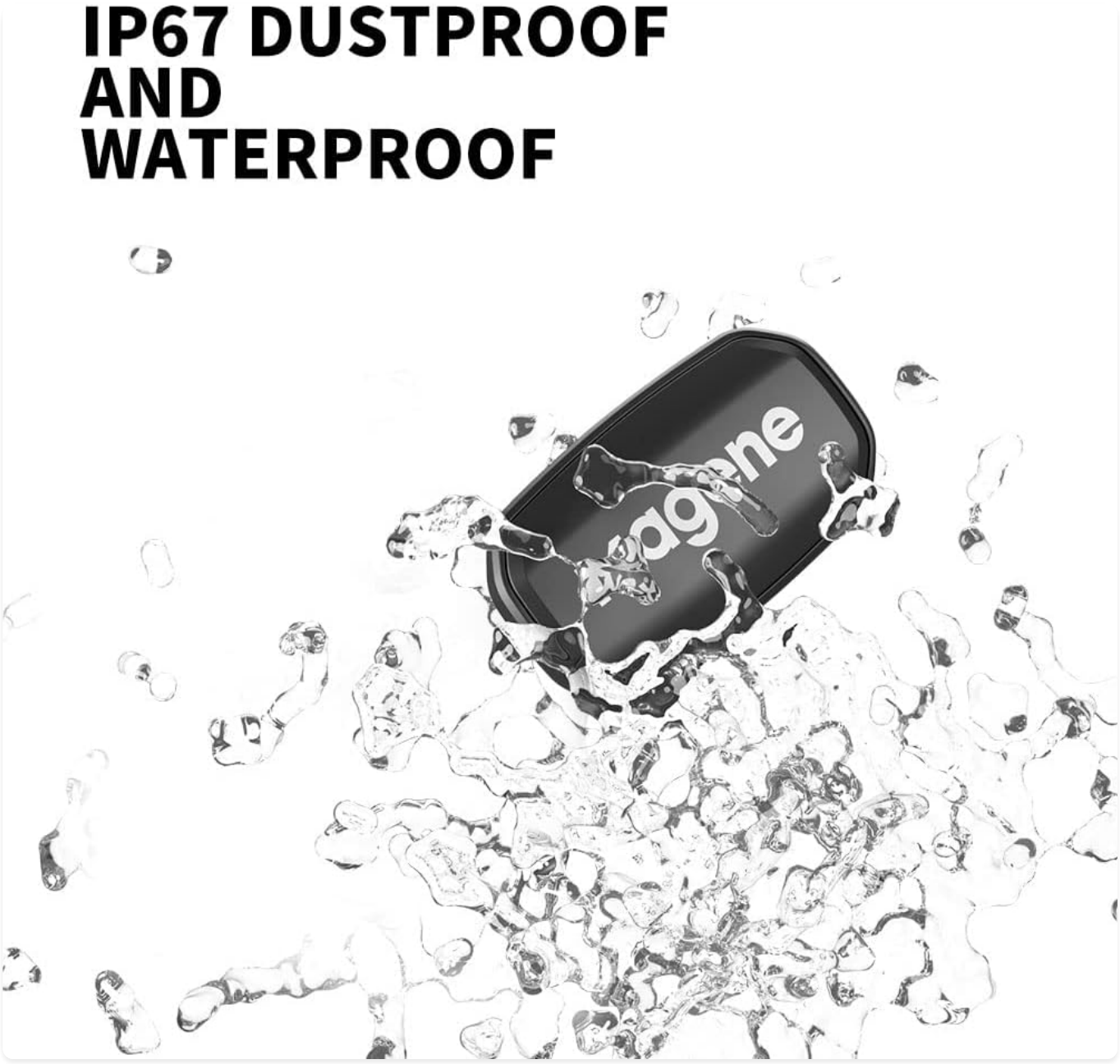

Image 7.1: The H303 is IP67 dustproof and waterproof, suitable for various sports conditions.

8. Troubleshooting

8.1 No Heart Rate Reading

- Ensure the strap electrodes are moistened.

- Check that the sensor is securely snapped onto the strap.
- Verify the battery is correctly installed and has sufficient charge. Replace if necessary.
- Ensure the strap is worn correctly and snugly on your chest.

8.2 Unstable or Incorrect Readings

- Re-moisten the electrodes.
- Adjust the strap for a better fit.
- Ensure there are no strong electromagnetic interferences nearby.
- Try re-pairing the sensor with your device/app.

8.3 Device Not Pairing

- Make sure the heart rate monitor is active (worn and LED flashing).
- Ensure Bluetooth or ANT+ is enabled on your receiving device.
- Move closer to your receiving device.
- Restart your receiving device or app.
- Check if the sensor is already paired with another device; some devices can only connect to one at a time via Bluetooth.

9. Specifications

Model	H303
Connectivity	ANT+, Bluetooth 4.0 (BLE)
Water Resistance	IP67
Battery Type	CR2032 Lithium Metal
Battery Life	Approx. 1000 hours
Sensor Weight	16g
Chest Strap Weight	30g
Product Dimensions (Sensor)	Approx. 12mm (Height)
Operating Temperature	-10°C to 50°C (14°F to 122°F)



Image 9.1: The sensor weighs 16g and the chest strap weighs 30g, making it lightweight and comfortable.

10. Warranty and Support

10.1 Warranty

The Magene H303 Heart Rate Monitor comes with a**2-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

10.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact Magene customer service. You can typically reach support through the platform where you purchased the product (e.g., Amazon message system) or through the

official Magene website. Magene offers 24/7 online customer service to assist you.

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