Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Bonvoisin 500g (ylx-151)

Bonvoisin 0.001g Digital Precision Balance Scale (500g) User Manual

Model: 500g (ylx-151) | Brand: Bonvoisin

1. Introduction

Thank you for choosing the Bonvoisin 0.001g Digital Precision Balance Scale. This instrument is designed for high-accuracy weighing in various applications, including laboratories, educational institutions, and jewelry stores. Please read this manual thoroughly before operation to ensure correct usage and optimal performance.

2. Safety Information

- Operate the scale on a stable, level surface free from vibrations.
- Avoid exposing the scale to extreme temperatures, humidity, or direct sunlight.
- Do not overload the scale beyond its maximum capacity of 500g.
- Keep the scale away from strong electromagnetic fields.
- Use only the provided power adapter for charging.
- Do not attempt to disassemble or repair the scale yourself. Contact customer support if service is required.

3. Package Contents

Verify that all items are present and in good condition upon unpacking:

- Bonvoisin Digital Precision Balance Scale (500g)
- Calibration Weight
- Power Adapter
- User Manual (English)



Image: The Bonvoisin Digital Precision Balance Scale, showing the main unit, a calibration weight, and the user manual.

4. Product Overview

The Bonvoisin Digital Precision Balance Scale features a blue backlit LCD display for clear readings, an integrated draft shield for stable measurements, and a built-in rechargeable lithium battery for portability. It also includes an RS-232 interface for data connectivity.



Image: A detailed view of the Bonvoisin Digital Precision Balance Scale, highlighting its display and overall design.

Key Features:

- **High Precision:** 0.001g readability with an error range of ±0.005g.
- **Blue Backlit LCD:** Ensures clear and accurate readings even in low-light conditions.
- **Rechargeable Battery:** Built-in lithium battery provides approximately 32 hours of continuous use on a full charge, allowing for portable measurements.
- **RS-232 Interface:** Enables connection to computers or printers for data transmission, recording, and monitoring.
- **Integrated Draft Shield:** Improves measurement stability by minimizing environmental interference.
- **Multiple Functions:** Includes Tare and Counting functions for versatile applications.



Image: An overview of the scale's main features, including precision, calibration, draft shield, RS-232, and battery.

5. Setup

1. **Unpacking:** Carefully remove the scale and all accessories from the packaging.
2. **Placement:** Place the scale on a firm, level, and vibration-free surface. Ensure it is away from direct airflow, heat sources, and strong magnetic fields.
3. **Power Connection:** Connect the power adapter to the scale's charging port and plug it into a suitable power outlet. Allow the internal battery to fully charge before initial use (approximately 32 hours of operation on a full charge).
4. **Draft Shield Assembly:** Ensure the integrated draft shield is properly positioned around the weighing pan to protect against air currents.



Image: Product dimensions for proper placement and setup.

6. Operating Instructions

6.1 Power On/Off

- Press the **ON/OFF** button to turn the scale on or off.
- The blue backlit LCD display will illuminate, showing "0.000g" when ready for use.

6.2 Basic Weighing

1. Ensure the scale displays "0.000g". If not, press the**ZERO** button.
2. Gently place the item to be weighed on the center of the weighing pan.
3. Wait for the reading to stabilize. The stable weight will be displayed on the LCD.



Image: The scale displaying a precise measurement, demonstrating its 0.001g accuracy.

6.3 Tare Function

The Tare function allows you to subtract the weight of a container, so only the net weight of the contents is measured.

1. Place an empty container on the weighing pan.
2. Press the **TARE** button. The display will reset to "0.000g".
3. Add the items to be weighed into the container. The display will show the net weight of the items.



Image: Visual guide for using the Tare function.

6.4 Counting Function (PCS)

This function allows you to count a large number of small, identical items.

1. Place a sample quantity of items (e.g., 10, 20, 50, 100 pieces) on the weighing pan.
2. Press the **PCS** button. The display will prompt you to select the sample size.
3. Use the **UNIT** button to select the corresponding sample size (e.g., P10, P20).
4. Press **PCS** again to confirm. The display will show the count of the sample.
5. Add more items to the pan, and the scale will display the total count.



Image: The scale in counting mode, showing a quantity of small items.

6.5 Unit Conversion

Press the **UNIT** button to cycle through available weighing units (e.g., grams, ounces, carats, etc.).

7. Calibration

Regular calibration ensures the accuracy of your scale. Perform calibration if you notice significant discrepancies or after moving the scale to a new location.

1. Ensure the scale is on a stable surface and nothing is on the weighing pan.
2. Press and hold the **CAL** button until "CAL" appears on the display.
3. The display will then show the required calibration weight (e.g., "500g").
4. Carefully place the provided 500g calibration weight onto the center of the weighing pan.
5. Wait for the display to show "PASS" or return to "0.000g", indicating successful calibration.
6. Remove the calibration weight.



Image: The scale and calibration weight, indicating the calibration process.

8. RS-232 Interface

The scale is equipped with an RS-232 interface for connecting to external devices such as computers or serial printers. This allows for convenient data transmission, recording, and analysis.

1. Connect the scale to your computer or serial printer using an appropriate RS-232 cable (not included).
2. Ensure the baud rate and output mode settings on your computer/printer match the scale's settings. The default baud rate for the scale is typically 9600.
3. Refer to your computer's or printer's manual for specific instructions on receiving data via RS-232.



Image: The scale connected to a laptop via its RS-232 interface.

9. Maintenance

- **Cleaning:** Wipe the scale with a soft, damp cloth. Do not use abrasive cleaners or immerse the scale in water.
- **Storage:** When not in use for extended periods, store the scale in a clean, dry place at room temperature.
- **Battery Care:** Recharge the battery regularly, even if not frequently used, to maintain its lifespan. Avoid fully discharging the battery for prolonged periods.

10. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Scale does not turn on.	Low battery or power adapter not connected.	Charge the scale using the provided power adapter. Ensure the adapter is securely plugged in.
Inaccurate readings.	Scale not level, vibrations, air currents, or needs calibration.	Place on a stable, level surface. Avoid drafts. Perform calibration as described in Section 7.
Display shows "OVERLOAD".	Weight exceeds maximum capacity.	Remove the excess weight immediately. Do not exceed 500g.
RS-232 data transfer fails.	Incorrect cable, baud rate mismatch, or software issue.	Verify cable connection. Check baud rate settings (default 9600). Consult your computer/printer manual.

11. Specifications

Brand	Bonvoisin
Model Number	500g (ylx-151)
Maximum Capacity	500g
Readability	0.001g
Error Range	±0.005g
Display Type	LCD with Blue Backlight
Battery Life	Approx. 32 hours (continuous use)
Interface	RS-232
Origin	China

12. Warranty and Support

Bonvoisin products are designed for quality and reliability. For warranty information, technical support, or service inquiries, please contact your retailer or visit the official Bonvoisin website. Please have your model number and purchase date available when contacting support.

© 2026 Bonvoisin. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0DNF7V3FM

More documents and user manuals: **https://manuals.plus/**