RUISHAN 15kg/33lb & 0.5g/0.0011lb Accuracy Electronic Counting Scale

RUISHAN Lab Inventory Counting Weight Scales

User Manual

Model: 15kg/33lb & 0.5g/0.0011lb Accuracy Electronic Counting Scale

1. Product Overview

The RUISHAN Lab Inventory Counting Weight Scale is a precision industrial instrument designed for accurate weighing and counting of various items such as parts, coins, and materials. It features a large 5-inch LED display, multiple functions including tare, external calibration, and quantity/weight sampling modes, and RS232 connectivity for data transfer.



Image 1.1: Front view of the RUISHAN Lab Inventory Counting Weight Scale, showing the display, keypad, and weighing pan with small parts.

This scale is built with a sensitive, lab-quality load cell to ensure reliable and accurate readings, making it suitable for laboratories, medical facilities, educational institutions, and industrial applications.

2. Setup and Installation

2.1 Unpacking

Carefully remove all components from the packaging. Verify that all items listed in the 'What's in the Box' section (Section 5.2) are present and undamaged.

2.2 Placement and Leveling

Place the scale on a stable, flat, and vibration-free surface. Use the four adjustable feet located at the bottom of the scale to ensure it is perfectly level. Check the built-in level bubble for precise leveling.

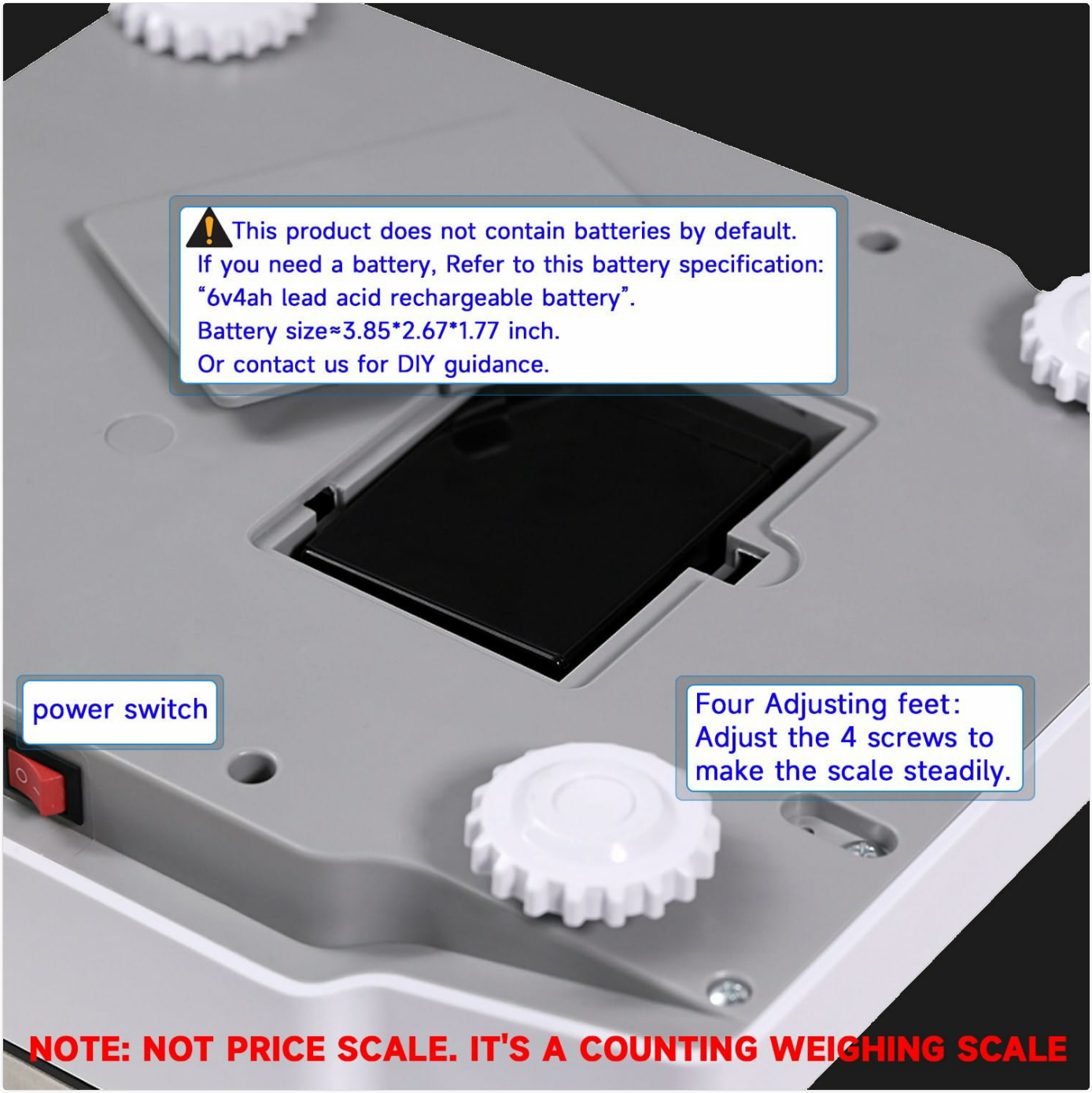


Image 2.1: The underside of the scale, highlighting the power switch, the battery compartment (note: batteries not included by default), and the four adjustable feet for leveling.

2.3 Power Connection

Connect the provided power cord to the scale's power input and then to a standard 110V AC outlet. The power switch is located on the right side of the unit.

2.4 Initial Setup

The scale is pre-calibrated and tested before shipment. No immediate calibration is typically required upon first use. If recalibration is needed, refer to the external calibration procedure in Section 3.4.

3. Operating Instructions

The scale features a 5-inch LED display and a user-friendly keypad for various operations.



Image 3.1: Detailed view of the scale's keypad, showing numeric keys and function buttons such as PIECE COUNTING, CHECK WEIGHING, WEIGHT COUNTING, PRINT, ZERO, M+, CE, TARE, and MC/UNIT.

3.1 Basic Weighing

1. Turn on the scale using the power switch.
2. Wait for the display to show '0.00' or '0.0'.
3. Place the item(s) to be weighed on the stainless steel weighing pan.
4. Read the weight displayed on the screen.

3.2 Tare Function

To weigh items in a container without including the container's weight:

1. Place the empty container on the weighing pan.
2. Press the **TARE** button. The display will reset to '0.00'.
3. Add the items to be weighed into the container. The display will show only the net weight of the items.

3.3 Counting Function

The scale supports both quantity sampling mode and weight sampling mode for counting.

1. Press the **PIECE COUNTING** or **WEIGHT COUNTING** button to enter the respective counting mode.
2. Follow the on-screen prompts to place a sample quantity of items (e.g., 10, 20, 50, 100 pieces) on the pan.
3. Input the exact number of sample pieces using the numeric keypad and confirm.
4. Remove the sample and then place the bulk quantity of items on the pan. The scale will display the total count.

3.4 Unit Conversion

The scale supports units including Pounds (lb), Kilograms (kg), Ounces (oz), and Grams (g).

- To change units, press and hold the **MC/UNIT** button for approximately 3 seconds. The unit will cycle through the available options.

3.5 Alarm Settings (Upper and Lower Limit)

The scale can be configured to alert you when the weight or quantity falls outside a set range.

1. Press the **CHECK WEIGHING** button to access alarm settings.
2. Use the numeric keypad to set the desired upper and lower limits for weight or quantity.

3. When the measured value exceeds the upper limit or falls below the lower limit, the screen text will change color and flash, accompanied by an audible reminder.



Image 3.2: The scale's display indicating upper (Lin-h) and lower (Lin-Lo) limit alarms, with flashing text and a visual alarm icon.

3.6 RS232 Connectivity

The scale is equipped with an RS232 serial port for connecting to computers and printers, enabling data transfer and printing of weighing results.



Image 3.3: The RS232 interface on the scale, demonstrating its connection capabilities to a computer for data logging (e.g., in a spreadsheet) and a printer for physical records. Note: RS232 data cable is not included and must be purchased separately.

4. Maintenance and Care

4.1 Cleaning

To maintain accuracy and prolong the life of your scale, clean it regularly. Use a soft, damp cloth with mild soap to wipe down the stainless steel weighing pan and the ABS body. Avoid abrasive cleaners or solvents that could damage the finish or internal components.

4.2 Weighing Pan Care

The scale features a reversible weighing pan. Ensure the pan is clean and free of debris before each use. Handle the pan carefully to avoid bending or damaging it, which could affect weighing accuracy.

4.3 Battery Information (Optional)

This product does not include batteries by default and is designed for direct plug-in operation. If you wish to add battery functionality, the scale supports a 6V4ah lead-acid rechargeable battery (size: 3.85" x 2.67" x 1.77" inches). Please contact RUISHAN for DIY guidance on battery installation.

5. Specifications

5.1 Technical Specifications

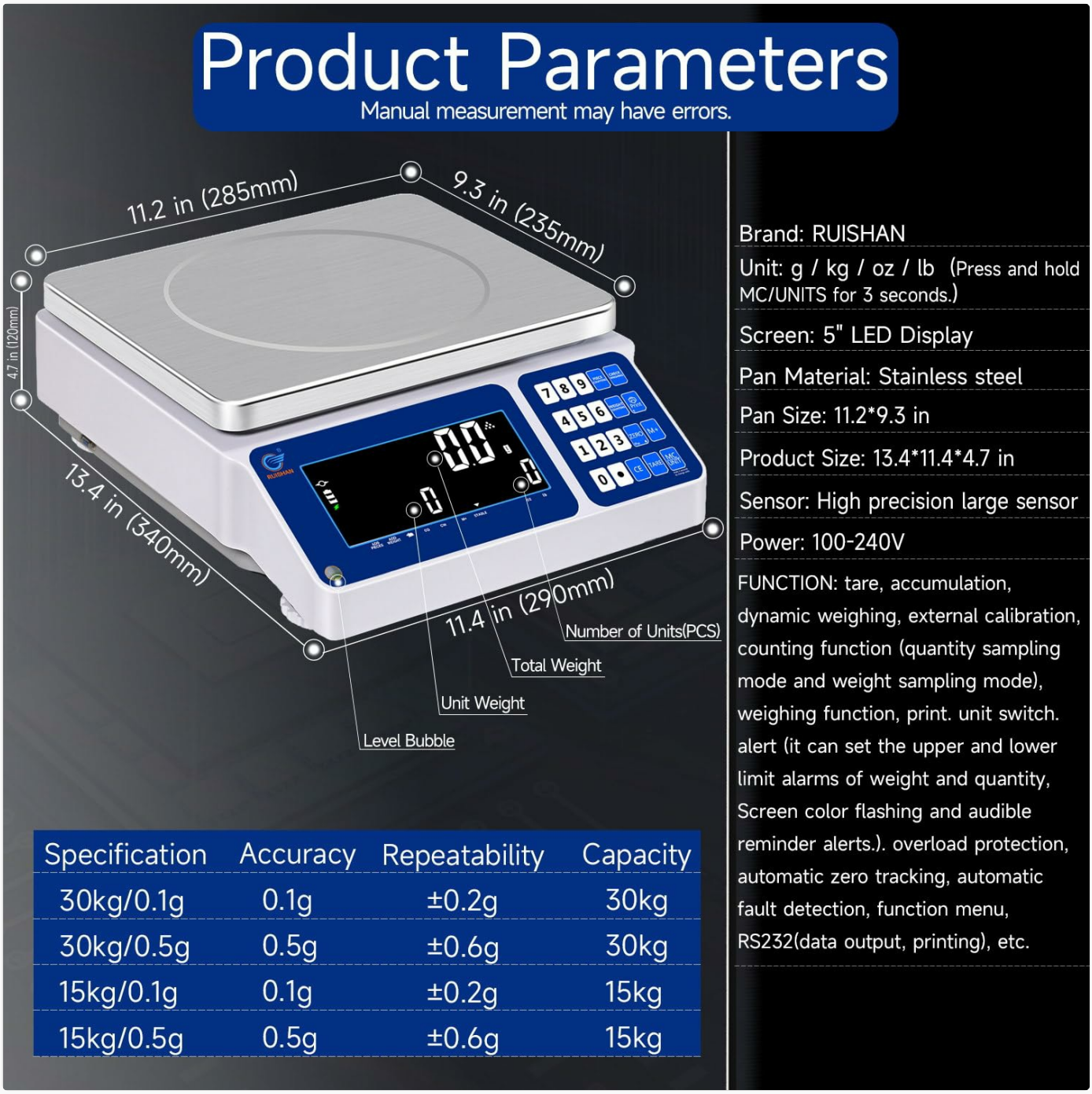


Image 5.1: Detailed product parameters including dimensions, screen type, pan material, power, and a specification table for various capacities and accuracies.

Feature	Detail
Brand	RUISHAN

Feature	Detail
Model	Lab Inventory Counting Weight Scale
Capacity Options	15kg (33lb) or 30kg (66lb)
Accuracy Options	0.1g or 0.5g
Display Type	5-inch LED Display with Backlight
Weighing Pan Material	Stainless Steel
Weighing Pan Size	285mm x 235mm (11.2" x 9.3")
Product Dimensions	340mm x 290mm x 120mm (13.4" x 11.4" x 4.7")
Power Supply	100-240V AC (Standard American Plug)
Connectivity	RS232 Serial Port
Special Features	Tare, Counting (Quantity/Weight Sampling), External Calibration, Unit Conversion, Upper/Lower Limit Alarms, Overload Protection, Automatic Zero Tracking, Error Indication

5.2 What's in the Box

- Counting Scale Unit
- Stainless Steel Weighing Pan
- Power Cord
- User Manual (this document)

6. Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Scale does not turn on	No power, power cord loose, power switch off	Ensure power cord is securely plugged in. Check power outlet. Turn on the power switch located on the right side of the scale.
Inaccurate readings	Scale not level, unstable surface, pan not seated correctly, external interference	Adjust leveling feet using the bubble level. Place scale on a stable surface. Ensure weighing pan is properly seated. Avoid drafts or vibrations. Perform external calibration if necessary.
Display shows 'Err' or error code	Overload, internal malfunction	Remove any excess weight from the pan if 'Overload' is indicated. If error persists, power cycle the scale. If the issue continues, contact customer support.

Problem	Possible Cause	Solution
Counting function is incorrect	Incorrect sample quantity, inconsistent item weight	Ensure the sample quantity entered matches the actual number of items placed. Use a larger sample size for more accurate counting, especially with very light items.

7. Warranty and Support

The RUISHAN Lab Inventory Counting Weight Scale is manufactured by RUISHAN. For any technical support, warranty claims, or service inquiries, please contact the seller or manufacturer directly. Refer to your purchase documentation for specific warranty terms and contact information.
RUISHAN is committed to providing high-quality products and customer satisfaction. For further assistance, please visit the official RUISHAN store or contact their customer service department.

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