

RIBAO TECHNOLOGY BC-55

RIBAO BC-55 Multi-Currency Money Counter Machine User Manual

Model: BC-55 | Brand: RIBAO TECHNOLOGY

1. INTRODUCTION

The RIBAO BC-55 is a premium bank-grade money counter machine designed for efficient and accurate counting and authentication of multiple currencies. It features advanced counterfeit detection technologies and mixed denomination counting capabilities, making it suitable for various business environments.



Image: The RIBAO BC-55 Multi-Currency Money Counter Machine, showing its front-loading design and user interface.

2. PACKAGE CONTENTS

Upon unboxing your RIBAO BC-55, please verify that all the following items are included:

- RIBAO BC-55 Money Counter Machine
- User Manual
- Simple Manual
- Dust Cover
- DB9 Cable
- DB9 Adaptor
- Warranty Card
- Cleaning Brush
- Manual for Printer Cable
- Power Cable

PACKAGE



BC-55 ✓



Dust cover ✓



User manual ✓



Simple manual ✓



DB9 cable ✓



Warranty card ✓



DB9 adaptor ✓



Clean brush ✓



Manual for printer cable ✓



Power cable ✓

Image: All items included in the RIBAO BC-55 product package, such as the machine, manuals, cables, and cleaning tools.

3. SETUP INSTRUCTIONS

3.1 Initial Placement and Power Connection

1. Place the RIBAO BC-55 on a stable, flat surface.
2. Ensure adequate space around the machine for proper ventilation and operation.
3. Connect the power cable to the machine's power input and then to a suitable power outlet.
4. Press the power button to turn on the machine.

3.2 Currency Configuration

The BC-55 supports counting and authenticating multiple currencies. The default currency setting includes USD, EUR, GBP, CAD, MXN, PEN, UYU, CLP, CRC, TTD, BRL, ARS, CNY, COP, JPY, VED, SRD, XCD, BBD, BSD. Additional currencies can be updated via software.

- Access the currency settings via the 3.5-inch touch screen interface.

- Select the desired currencies for operation.
- For specific currency updates or additions, contact customer support.

3.5 inch touch screen

Plug and play



Image: Close-up of the RIBAO BC-55's 3.5-inch touch screen, illustrating the user-friendly interface for selecting functions and currencies.

3.3 Peripheral Connections

The BC-55 supports various peripheral connections for enhanced functionality, such as external displays or printers for serial number output.

- **USB Port:** For software updates and connecting to a PC for data output.
- **LAN Port:** For network connectivity.
- **RS232 Port (DB9):** For connecting to external displays or thermal printers. Use the provided DB9 cable and adaptor.

Support multiple peripheral connections



Printer not included

Image: The rear panel of the RIBAO BC-55, showing ports for USB, LAN, and RS232 connections, enabling integration with external devices like printers and displays.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

1. Place the stack of bills neatly into the hopper. Ensure bills are aligned and not folded or damaged.
2. The machine will automatically start counting or you can press the "START" button.
3. The 3.5-inch touch screen will display counting details, including currency type, quantity, value, and total amount.

Multi function Meet all your needs



Auto-currency recognition



Total Value



Single denomination mode



Batch mode



Multi-Currency counting



SN recognition



Image: The RIBAO BC-55's display showing various functions such as auto-currency recognition, total value, batch mode, single denomination mode, multi-currency counting, and serial number recognition.

4.2 Operating Modes

The BC-55 offers several operating modes to suit different counting needs:

- **MIX Mode:** Counts and calculates the total value of a stack of mixed denomination bills.
- **MULTI Mode:** Counts multiple currencies simultaneously.
- **AUTO Mode:** Automatically recognizes the currency being counted.
- **SDC (Single Denomination Counting) Mode:** Sorts bills based on the first denomination or currency detected.
- **CNT Mode:** Counts the number of bills at a speed of up to 1500 pieces per minute.
- **ADD Mode:** Adds consecutive counting results.
- **BATCH Mode:** Counts bills into preset batch sizes.

4.3 Counterfeit Detection

The BC-55 employs multiple advanced detection technologies to ensure high accuracy in identifying counterfeit bills:

- **2 CIS (Contact Image Sensor):** Two high-resolution CIS sensors scan both sides of each bill for detailed image analysis.
- **UV (Ultraviolet) Sensor:** Detects security features visible under UV light.
- **MG (Magnetic) Sensors:** Eight channels of magnetic sensors provide full coverage for magnetic ink detection.
- **IR (Infrared) Sensors:** Inspects the thickness and width of banknotes, and detects infrared security features.
- **Size Detection:** Verifies bill dimensions.



Image: Diagram illustrating the powerful counterfeit detection features of the RIBAO BC-55, including SN recognition, UV, Magnetic, Infrared, 2CIS Technology, and Size detection.

4.4 Serial Number Recording

The machine can record serial numbers of banknotes, which is useful for tracking and management. This feature is automatically enabled when the counting speed is set to 1000 pieces per minute or higher. A PC software is available to output serial numbers and counting records to a computer.

5. MAINTENANCE

5.1 Cleaning

Regular cleaning is essential for maintaining the machine's performance and accuracy. The entire passage can be opened completely for easy access.

1. Turn off and unplug the machine before cleaning.
2. Open the top cover and the bill passage.
3. Use the provided cleaning brush to remove dust and debris from sensors, rollers, and the bill path.
4. Ensure all sensors and optical components are free from obstructions.
5. Close the covers securely after cleaning.

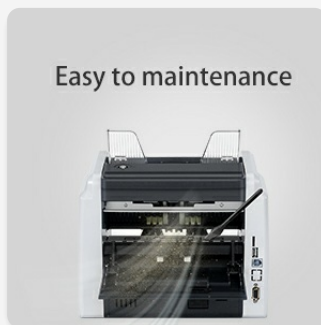


Image: An illustration showing the RIBAO BC-55 with its top cover open, demonstrating how easily the internal components can be accessed for cleaning with a brush.

5.2 Software Updates

RIBAO TECHNOLOGY periodically releases software updates to improve performance, add new currency support, or enhance detection capabilities. Contact customer support for information on available updates and instructions for installation via the USB port.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your RIBAO BC-55.

6.1 Jams or Miscounts

- **Cause:** Bills are folded, crimped, damaged, taped, or torn. Improper bill placement in the hopper. Dust or debris on sensors/rollers.
- **Solution:**
 - a. Ensure bills are clean, flat, and properly aligned in the hopper.
 - b. Remove any damaged bills from the stack.
 - c. Perform regular cleaning of the bill path and sensors as described in Section 5.1.
 - d. Adjust the bill guides in the hopper to fit the currency snugly.

6.2 Counterfeit Detection Errors

- **Cause:** Overly sensitive detection settings, or genuinely suspicious bills.
- **Solution:**
 - a. Verify the suspected bill using alternative methods if possible.
 - b. Access the machine's settings menu and adjust the counterfeit sensitivity level for the specific currency. Lowering the sensitivity by one stage can help with slightly worn bills while still detecting fakes.
 - c. Ensure sensors are clean (refer to Section 5.1).

6.3 Serial Number Printing Issues

- **Cause:** Incorrect printer connection, incompatible printer, or software settings.
- **Solution:**
 - a. Ensure the thermal printer is correctly connected via the DB9 port using the provided cable and adaptor.
 - b. Refer to the "Manual for Printer Cable" included in your package for specific setup instructions.
 - c. Verify printer settings within the BC-55 menu.
 - d. Contact customer support for assistance with printer compatibility or software configuration.

6.4 Machine Stops Unexpectedly (Sleeping Mode)

- **Cause:** Inactivity.
- **Solution:** The machine may enter sleeping mode after a period of inactivity to conserve power. Simply touch the screen or press any button to reactivate it.



Image: A screen capture showing the RIBAO BC-55's display in sleeping mode, indicating the date and time, with power and shield icons.

7. SPECIFICATIONS

Feature	Specification
Model Number	BC-55
Dimensions (L x W x H)	11.81 x 9.72 x 11.3 inches
Item Weight	15.47 pounds
Counting Speed	Up to 1500 pcs/min (CNT mode)
Serial Number Reading Speed	1200 pcs/min
Display	3.5-inch TFT Touch Screen
Counterfeit Detection	2 CIS, UV, 8-channel MG, IR, Size Detection
Supported Currencies	Up to 32 currencies simultaneously (default includes USD, EUR, GBP, CAD, MXN, etc.)
Connectivity	USB, LAN, RS232 (DB9)
Manufacturer	RIBAO TECHNOLOGY

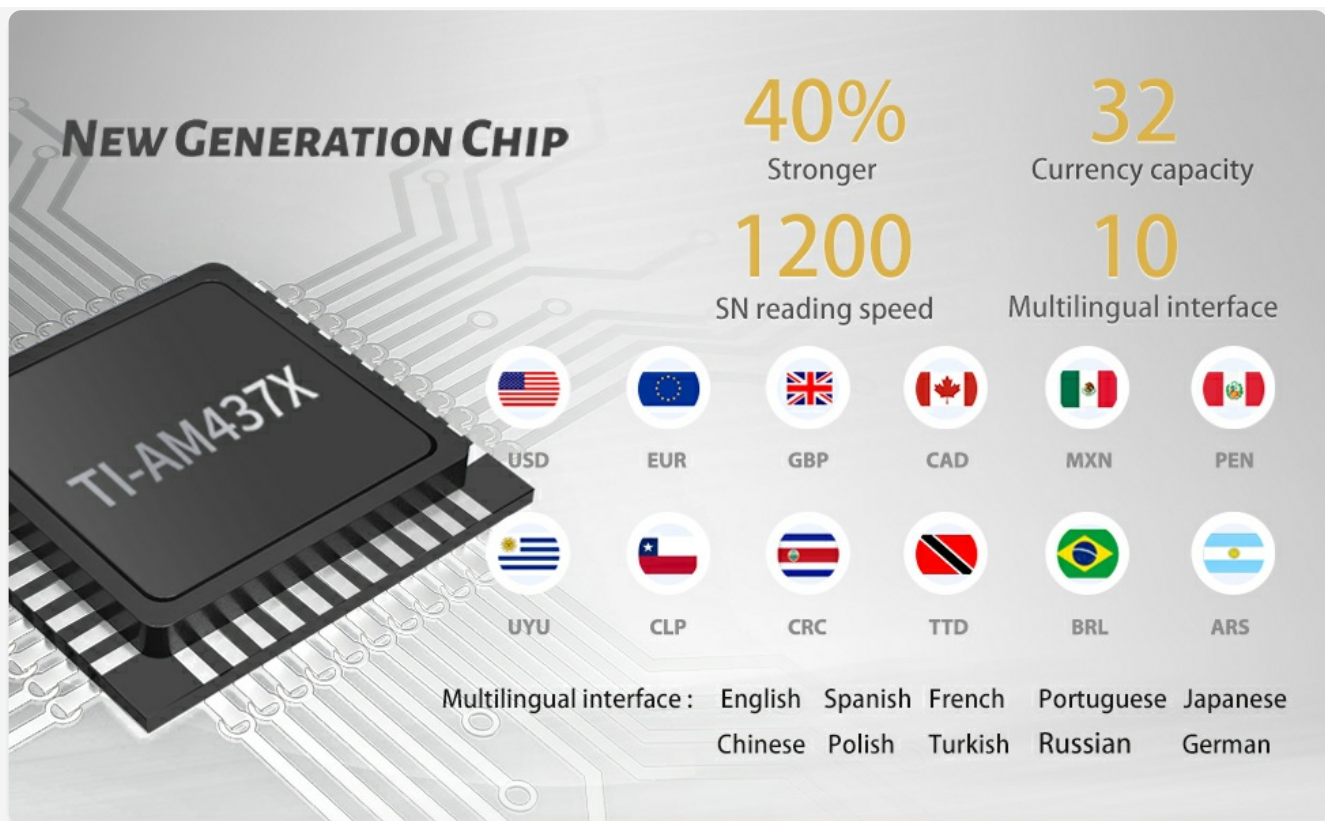


Image: An illustration highlighting the new generation chip (TI-AM437X) in the RIBAO BC-55, emphasizing its 40% stronger performance, 1200 SN reading speed, 32 currency capacity, and multilingual interface support.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The RIBAO BC-55 comes with a **2-year warranty**. Please refer to the included Warranty Card in your package for detailed terms and conditions.

8.2 Customer Support

RIBAO TECHNOLOGY provides comprehensive customer service and technical support. For any questions, technical assistance, or software update requirements, please contact our US-based team.

- **Response Time:** Enquiries are typically replied to within 12 hours.
- **Solution Time:** Solutions are provided within 48 hours.
- **Contact Method:** Please refer to the contact information provided on the warranty card or the official RIBAO TECHNOLOGY website.

Guaranteed customer service

01

**Customer service
24 hours online**



02

**Professional
technical support**



03

U.S. based team



Image: An infographic detailing RIBAO's guaranteed customer service, including 24-hour online customer service, professional technical support, and a U.S.-based team.