

# **1+1 Pockets Multi-Currency Discriminator**





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## **1** Introduction

#### **1.1 Important Notes and Safety Instructions**

- The machine is intended for indoor use only. Do not use it outdoors.
- Do not attempt to disassemble the machine. If any operational issues arise, please contact the authorized distributor for assistance.
- Avoid exposing the device to liquids or extreme humidity/moisture.
- Operate the device away from environments with strong magnetic and electromagnetic fields. For example, keep it away from magnets and other electrical appliances.
- Always use the supplied power cord with a properly grounded outlet.

#### 1.2 Unpacking

Before proceeding, inspect the machine's appearance to ensure it is in good condition. Additionally, verify the presence of all accessories included in the package. Inside the package, you should find the following items:









Power cord



USB cable (Optional)

Cleaning brush

Fuse





External display (Optional)

Cable for printer (Optional)

# 2. Model Overview

### 2.1 Front View



#### 2.2 Rear View



#### 1.3 Figures Used

The figures in this manual are for illustrative purpose only.



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Banknote **Receiving Wheel** 

Upper Note Path

Lower Note Path Door

Port for USB cable

Port for External



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#### 2.3 Control Panel Overview

CARNATION	CUR MODE CLEAR
	BATCH V ADD

Кеу	Description
CUR	1. Selection of desired currency.
COR	2. Utilized as the "+1" function in the menu interface.
BATCH	1. Batch function ON/OFF, and set batch number.
BAICH	2. Utilized as the "-1" function in the menu interface.
DISPLAY	1. View the counting detail.
DISPLAT	2. Long press to print the counting detail.
MODE	1. Select counting mode: Mix→Single→Face→Orient→Count
MODE	2. Navigate using the " <sup>*</sup> key in the menu interface.
ADD	1. "ADD" function <b>ON/OFF.</b>
ADD	<ol> <li>Navigate using the "↓" key in the menu interface.</li> </ol>
MENU	1. Press to enter the User menu.
MENU	2. Press to return to the previous menu in the menu interface.
	1. Clear the number of counted banknotes.
CLEAR	2. Clear the unsaved settings.
	3. Press to turn the batch function <b>OFF.</b>
STADT	1. Start counting.
START	2. Confirm selection in menu interface.

### 3. Operation

#### 3.1 Power ON/OFF



#### Switching ON the device:

- Connect the machine to the power outlet using the power cable.
- Press the Power Switch button located on the rear side of the machine.
- After a brief boot-up and self-test, the machine will enter the main counting interface.

#### Switching OFF the device:

• Press the power switch button to turn the machine off.

#### 3.2 How to Handle and Place Banknotes

To ensure smooth banknote counting, please adhere to the following guidelines:

- 1. Avoid counting wet, excessively dirty, or damaged notes.
- 2. Check for foreign objects mixed with the notes, such as paper clips, rubber bands, clips, or dust, as these may jam the note path or damage the sensors.
- 3. Straighten any folds or curls in the notes before placing them in the hopper. 4. Ensure all corners and edges of the notes are aligned, as unevenness could
- result in errors.
- 5. Place the notes in the center of the hopper and adjust the hopper guides if necessary.

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#### 3.3 Main Screen Overview



#### 3.4 Currency Selection

1. Press the CUR key to select the desired currency. Alternatively, tap the "AUTO" area on the display to enter the currency selection interface.

2. Note:

- Selecting "ANY" currency allows you to count any currencies. It will only count the number of banknotes without denominations or any counterfeit detection.
- Selecting "AUTO" currency enables the machine to automatically detect the currency.
- Selecting "MULT" currency allows you to count mixed currencies. The machine will count them together automatically.



#### 3.5 ADD Mode

- In ADD mode (accumulative counting), the machine will summarize the results of multiple counting sessions.
- Press the ADD key or tap the ADD icon to toggle the ADD function ON/OFF.
- When ADD mode is activated, "ADD" will appear on the top line of the display.
- When ADD mode is deactivated, "ADD" will be grayed out on the display.



#### 3.6 Batch Counting & Value Batch counting

How to Count a Preset Number of Banknotes:

- Use the Batch key to select or set the banknote batch number.
- For Normal batch mode, the cycle switches as follows: ---, 100, 50, 25, 10, ---.
- For Value batch mode, the cycle switches as follows: ---, 500000, 400000, 300000, 200000, 100000, 50000, 30000, 20000, 10000, 5000, 2500, 2000, 1000, 500, 100, 50, 10, ---.

How to Perform Batch Counting:

- Tap the Batch icon or long-press the Batch key to enter the Batch counting & Value Batch counting number setting interface.
- Input the desired number using the touch keyboard.
- Tap the "OK" button or press the START key to save the setting. (The largest batch value can be set up to 999, and the Batch value can be set up to 9,999,999.)
- The machine will count the set number of notes and values and then stop.

How to Turn Off the Batch Function:

- Set the value as "0" to disable the batch counting function.
- Tap "OFF" in the "BATCH SETUP" interface to turn off the batch function.



USD Mix ADD	BATCH	A	BAT	CH SE	TUP		D
	0			0			
		OFF	7	8	9	0	
\$	$\mathbf{O}$	Batch	4	5	6	•	
S:1000 <b>Rej: 0</b>	17:05	Batch Value	1	2	3		ОК

#### 3.7 Counting Modes

- Tap the MODE ICON or press the MODE key to select the desired counting mode.
- The current counting mode will be displayed sequentially in the middle area of the top line of the display. Modes include Mix, Single, Face, Orient, and Count (5 modes in total).

USD Mix ADD	BATCH	î	МС	DDE	5
	0	Mix	Single	Face	Orient
\$	0				
S:1000 Rej: 0	17:05				

#### • Definition of the Counting Modes

Mix	Mixed Value Mode	The machine counts mixed denomination banknotes. Suspicious notes will be routed to the reject pocket.
Single	Single Value Mode	The machine counts banknotes with the denomination of the first detected genuine note. Suspicious banknotes and those with a deviating denomination are routed to the reject pocket.
Face	Face Sorting Mode	Counts banknotes with the face of the first detected, genuine one. Banknotes with different faces and suspicious notes are delivered to the reject pocket.



#### 3.8 Print Function

1.How to Print the Counting Result as a Receipt Using an External Printer:

2. Connect a printer to the printer port at the rear of the machine.

3. After a counting job is finished, long-press the DISPLAY key.

4. Alternatively, navigate to the counting detail interface and tap the "Print" icon to print the counting result.

A	USD	
Deno	Pcs	Value
1	2	2
2	0	0
5	2	10
10	2	20
20	3	60
50		150
100	2	200
Total	14	442

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#### 3.9 View Counting detail

After counting is finished, tap the area below or press the DISPLAY key to enter the counting detail interface.



The counting detail interface displays the number of banknotes and their total values for each denomination counted in the batch. You can also tap the virtual "Print" button to print the counting detail.



#### 3.10 Change Counting Speed

• To change counting speed:



- 1. Touch the "S:1000" area to adjust the counting speed.
- 2. Speed options: 1000 and 1200 notes/min.

Note: The 1200 notes/min speed is only available in "ANY" currency mode.

# 4 Setting Up

To set up the counter: While on the main screen, press the **MENU** key to enter the User Menu. In the User Menu interface, the MODE key serves as the Up-navigation key, while the ADD key serves as the Down navigation key. MODE: Up ADD: Down CUR: +1 Batch: -1 Use the navigation keys to highlight the desired item. Press the **START** key to confirm your selection. Press the MENU key to return to the previous interface. Note: You can also set or change every item in the User Menu by touching the screen.

#### 4.1 Auto Start

To choose the counting start mode when banknotes are placed in the hopper:

- Manual: Manually start counting by pressing the START key.
- Auto: Automatically start counting. The machine will begin counting automatically when it detects banknotes in the hopper.



- 1. Highlight the "Auto Start" option. 2. Press the BATCH or CUR key to toggle between Auto and Manual modes.
- 3. Press the MENU key to exit and return to the previous menu.
- 4. You can also change this setting by touching the display.

#### 4.2 Setting R-P Capacity

• To set R-P(Reject Pocket) capacity:



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ŵ	User Menu	Ð
1	Auto/Manual	Auto
2	R-P Capacity	50
3	Batch Add Mode	ON
4	Date Time	>
5	Beep Setup	
<		>

- 1. Highlight the "R-P Capacity" option.
- 2. Press the BATCH or CUR key to adjust the reject pocket capacity. Options include 50, 40, 30, and 20.
- 3. Press the MENU key to exit and return to the previous menu.
- 4. You can also perform the above actions by touching the display.

#### 4.3 Batch Add Mode

When you enable this function and proceed to count notes, the machine will check the following two situations upon displaying "batch reached":

- 1. If the hopper is empty at this point, the counting result in the main counting interface will be cleared to "0" when you clear the stacker.
- 2. If there are any notes remaining in the hopper, the counting result in the main counting interface will accumulate when you clear the stacker.



- 4.4 Date & Time
- To set date and time:

A	User Menu	=
1	Auto/Manual	Auto
2	R-P Capacity	5(
3	Batch Add Mode	NO
4	Date Time	>
5	Beep Setup	>
<		>

2. Press the BATCH or CUR key to toggle between ON and OFF.

1. Highlight the "Batch Add Mode" option.

- 3. Press the MENU key to exit and return to the previous menu.
- 4. You can also change this setting by touching the display.
- 1. Highlight the "Time & Date" option.
- 2. Press the START key to confirm and enter the Time & Date interface.
- 3. Date Format: Use the BATCH key to cycle through date format options ("YY-MM-DD" / "DD-MM-YY" / "MM-DD-YY").
- 4. Date Setup: Double-click to enter the date setup interface.
- 5. Time Setup: Double-click to enter the time setup interface.
- 6. Press the MENU key to exit.

# Date Time YY-MM-DD Date Setup 2024 - 3 - 30



#### 4.5 Beep Setup

#### • To change beep setup:





1. Highlight the "Beep Setup" option.

touching the display.

- 2. Press the START key to confirm and
- enter the Beep Setup interface.
- desired item that needs to be changed.
- 4. Press the BATCH or CUR key to toggle between Mute and Normal.
- 5. Press the MENU key to exit.
- 6. You can also change this setting by touching the display.

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7. You can also change this setting by

3. Use the MODE or ADD key to select the



#### 4.6 Capture Image option

To specify which banknote data will be collected before scanning the notes image data:

Accept: When "Accept" is selected, the machine will only collect the image data of banknotes that are accepted by the machine during the collection process. It will not collect data for banknotes that are rejected.

Reject: When "Reject" is selected, the machine will only collect the image data of banknotes that are rejected by the machine during the collection process. It will not collect data for banknotes that are accepted.

ALL: When "All" is selected, the machine will collect the image data of all banknotes counted by the machine during the collection process.

option.

data.



#### 4.7 Version

• To view the firmware version information:



1. Highlight the "Version" option.

the previous menu.

touching the display.

2. Press the START key to confirm and enter the version interface.

1. Highlight the "Capture Image option"

2. Press the BATCH or CUR key to toggle

between "All", "Reject", and "Accept". 3. Press the MENU key to exit and return to

4. You can also change this setting by

5. Note: This function is only available

when using a USB cable to collect image

- 3. The version information will be displayed on the screen.
- 4. Press the CUR key to switch to the currency database version information interface.
- 5. Use the MODE and ADD keys to page up and down through the information.
- 6. Press the MENU key to exit and return to the previous menu.
- 7. You can also view this information by touching the display.



ŵ		Version		Ð
	AUTO:V1.0	02		
	MULT:V1.0	02		
	ANY:V1.00	1		
	EUR:V1.003	_IMG1.02		
	USD:V1.002	2_IMG1.03		
	GBP:V1.002	2_IMG1.01_N	AT1.003	
		the second second		and the second second

#### 4.8 External Display Setting

To change the external display type, you must select your external display model when working with an external display:



- 1. Highlight the "System Option" option.
- enter the System Option interface.
- 3. Highlight the "External Display" option.
- 4. Press the BATCH or CUR key to select the desired option.
- 5. Press the MENU key to exit.
- 6. You can also change this setting by touching the display.

#### 4.9 Auto Cur Selection

To configure which currencies are available when using "AUTO" currency mode:

2. Press the START key to confirm and

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- 1. Highlight the "System Option" selection. 2. Press the START key to confirm and
- enter the System Option interface.
- 3. Highlight the "Auto Cur Selection" option. 4. Press the START key to confirm and
- enter the Auto CUR selection interface. 5. Press the BATCH or CUR key to enable or disable the item.
- 6. Press the MENU key to exit and return to the previous menu.
- 7. You can also perform the above actions by touching the display.

#### 4.10 Multi Cur Selection

To configure which currencies are available when using "Multi" currency mode:

A	System Option	5
1	Count Speed	1200
2	External Display	BlueTooth
3	Auto Cur Selection	
4	Multi Cur Selection	
5	Default Currency	None
A	User Menu	C
<ul><li><b>↑</b></li><li>6</li></ul>	User Menu Capture Image option	C IIA
6	Capture Image option	
6 7	Capture Image option Version	
6 7 8	Capture Image option Version System Option	

- 1. Highlight the "System Option" selection.
- 2. Press the START key to confirm and enter the System Option interface.
- 3. Highlight the "Multi Cur Selection" option.
- 4. Press the START key to confirm and enter the Multi CUR selection interface.
- 5. Press the BATCH or CUR key to enable or disable the item.
- 6. Press the MENU key to exit and return to the previous menu.
- 7. You can also perform the above actions by touching the display.



#### 4.11 Default Currency

To set your default currency, choose the currency that the machine will automatically select each time it is turned on. If you choose "None," the machine will remember the last selected currency even when it is turned off.





- 1. Highlight the "System Option" selection.
- 2. Press the START key to confirm and
- enter the System Option interface.
- 4. Press the BATCH or CUR key to select the desired currency.
- 5. Press the MENU key to exit and return to the previous menu.
- 6. You can also perform the above actions by touching the display.

3. Highlight the "Default Currency" option.



## **5 Technical Specifications**

Counterfeit Detection Sensors:	Dual CIS, MG, Dual-wavelength IR, UV
Value Count Speed:	1,000 notes/minute
Free Count Speed:	1,200 notes/minute
Hopper Capacity:	500 notes
Stacker Capacity:	200 notes
Reject Pocket Capacity:	50 notes
Power Supply:	100~240V AC, 50/60 Hz
Interface:	RJ9 x 1, DB9 x 1(RS-232), USB x 2
Dimensions(W/H/D):	10.67"(W)X10.24"(H)X10.39"(D) (271(W)X260(H)X264(D)mm)
Net Weight:	18.3lb (8.3kg)

## 6. Appendix Error Message

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Part 1 Self-test error message display and solutions

If the following error message is displayed on the display while turning on, you can handle them as per the following solutions.

Error message	Solutions	
UV Fault	<ol> <li>Place the machine in a suitable location to avoid shining directly on the top cover.</li> <li>Remove banknotes from the machine and/or cl sensor to remove any dust.</li> </ol>	
Right Counting Fault Middle Counting Fault Left Counting Fault	Remove the banknotes and/or clean the Group B I remove any dust.	
Right CIS IR Fault	Remove the banknotes from the machine and/or cl	
Left CIS IR Fault	sensor to remove any dust.	
CIS#1 Fault	Remove the banknotes and/or clean the CIS (Cont	
	to remove any dust.	
Receiving Fault	Remove the banknotes from the stacker and/or cle	
	sensor to remove any dust.	
Rejector Fault	Remove the banknotes from the reject pocket and/	
	sensor to remove any dust.	
Feeding Fault	Remove the banknotes from the hopper and/or clea	
	sensor to remove any dust.	
Rotate#1 Speed Fault	Clean the rotate speed sensor to remove any dust.	
Rotate#2 Speed Fault		
C1 IR Fault	Remove the banknotes from the C&D IR sensor an C&D IR sensor to remove any dust.	
C2 IR Fault		
D1 IR Fault		

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#### Part 2 Detective error message display and solutions

If the following error message is displayed on the display during counting, you can handle them as per the following solutions after the machine is stopped.

Deno Diff	The denomination of this banknote is different from the first detected denomination of this counting batch.
Ver Diff	The issued version of this banknote is different from the first
	detected issued version of this counting batch.
Face Diff	The face direction of this banknote is different from the first
	detected face direction of this counting batch.
	If the orientation of this banknote is different from the first
Orient Diff	detected orientation of this counting batch, please follow these
	steps after the machine is stopped:
lmane#2	1. Count again.
	2. Do a sensor calibration.
Image#3	3. If the problem continues, capture the image data and send it
	to your sales representative for further analysis.
	1. Count again.
Ir image error	2. Do a sensor calibration.
ir image error	3. If the problem continues, capture the image data and send it
	to your sales representative for further analysis.
	1. Count again.
UV-Error	2. Do a sensor calibration.
UV-Error	3. If the problem continues, capture the image data and send it
	to your sales representative for further analysis.
MG-Error	1. Count again.
	2. If the problem continues, capture the image data and send it
	to your sales representative for further analysis.
MG1-Error	1. Count again.
	2. If the problem continues, capture the image data and send it
	to your sales representative for further analysis.

MG2-Error	<ol> <li>Count again.</li> <li>If the problem continues, capture the image d to your sales representative for further analysis.</li> </ol>
MG3-Error	<ol> <li>Count again.</li> <li>If the problem continues, capture the image d to your sales representative for further analysis.</li> </ol>
IR-Error	<ol> <li>Count again.</li> <li>Do a sensor calibration.</li> <li>If the problem continues, capture the image d to your sales representative for further analysis.</li> </ol>
Width	<ol> <li>Count again.</li> <li>Do a sensor calibration and motor speed adjust</li> <li>If the problem continues, capture the image d to your sales representative for further analysis.</li> </ol>
Slant	<ol> <li>Count again.</li> <li>Check and adjust the feeding gap.</li> <li>If the problem continues, capture the image d to your sales representative for further analysis.</li> </ol>
Chained#1	<ol> <li>Count again.</li> <li>Check and adjust the feeding gap.</li> <li>If the problem continues, capture the image d</li> </ol>
	to your sales representative for further analysis.
Double	<ol> <li>Count again.</li> <li>Check and adjust the feeding gap.</li> <li>If the problem continues, capture the image d to your sales representative for further analysis.</li> </ol>
Half	Check if the banknote got damaged.
Length	<ol> <li>Count again.</li> <li>Do a sensor calibration.</li> <li>If the problem continues, capture the image d to your sales representative for further analysis.</li> </ol>
Old Ver	Check if the banknote already out of circulation.
Others	<ol> <li>Count again.</li> <li>If problem persists, record the operational det after the problem occurred, capture the image d to your sales representative for further analysis.</li> </ol>

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Part 3 Alarm message display and solutions

If the following error message is displayed on the display when operating the machine, you can handle them as per the following solutions.

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Error message	Solutions
Batch Reached	Counting result reaches preset batch value. Remove the banknotes from the stacker.
Stacker Full	Capacity of stacker is full. Remove the banknotes from the stacker.
Rejector Full	Capacity of reject pocket is full. Remove the banknotes from the reject pocket.
Cover Open	<ol> <li>Close the top cover.</li> <li>If the top cover is not open, there may be notes inside the machine, remove it.</li> </ol>
Back Drawer Open	Close the back drawer.
JAM	Some foreign substance falls inside the machine or notes are blocked, open the back cover to remove them.
Mainloop Broken	Turn off the machine and restart it.
Check Stacker	Remove the banknotes from the stacker.
Clean IR Sensor A1	
Clean IR Sensor A2	Remove the dust or banknotes from the A&B IR sensors.
Clean IR Sensor B1	
Clean IR Sensor B2	

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