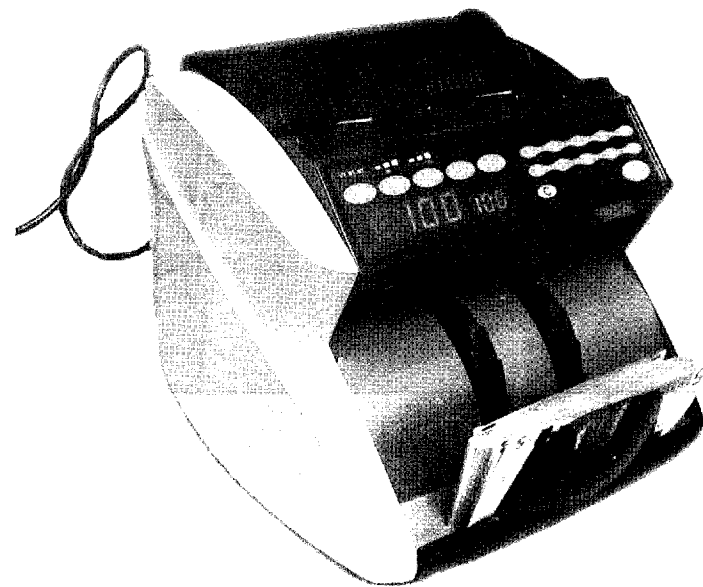


AUTO-BANKNOTE-COUNTER

**OPERATION
INSTRUCTION**



FORWARD

This manual has been compiled to provide complete instructions for operating the machine. Before starting, please read the manual thoroughly to familiarize you with all functions and operation of the machine.

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- 2) Raised the hopper slightly .and then take out the jammed notes. Please pay attention to pull out the upturn stick before closing the hopper

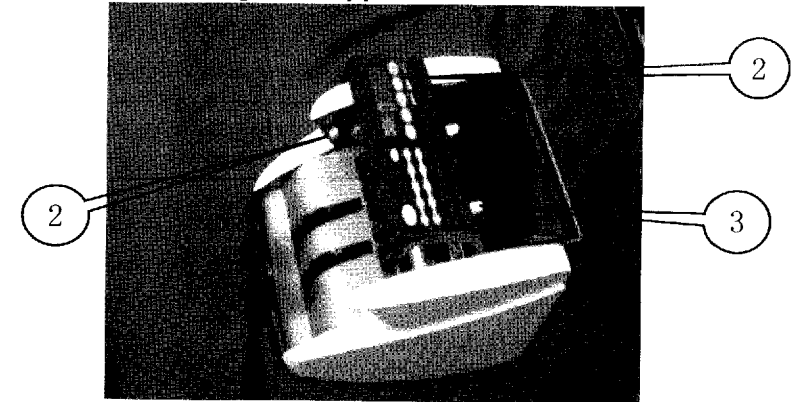


Fig 5

1 Knob 2 Hopper 3 Upturn Stick

VIII. CLEANING AND MAINTENANCE

● As the sensors are of the optical sensor, it may cause miscounting if paper particles, dust, dirt, stain, etc. Stick to the counting sensors, and also may be hard to start the counting operation if the repeat sensor or the auto-start sensor is dusty.

For best results, it is necessary to clean all the sensors with a dry brush periodically or as needed.

● The machine uses optical sensors, so keep the instrument out of direct sunlight.

● The feed system are roller friction system, so do keep pins, clips, necklace chains, hair away from the machine to prevent them to be taken into the machine.

Notes: Do clean the machine after turning OFF the power.
Do not use chemicals for cleaning the machine.

IX. ACCESSORIES

Power cord	1pc.
Operating Instructions	1pc.
Remote Display (option)	1pc

folded notes and/or thick paper sheets, turn the ADJ Dial toward "+" (thick).

VII. REMOVING CAUSE OF ERROR

When the machine is stopped under the detection function, the error messages will be shown on the Display. Check the last two counted notes, take the suspect one away. Press the "START" key to continue the counting or recount all the banknotes. Error Code and remedy as following:

Code	Means	Cause	Remedy
Ej	Jam	Note is jammed inside the machine, or the counting sensor is stucked with dust or damaged.	Remove the notes in the Hopper and Stacker. Press "START" key, the machine will run out the jammed note. Or you TURN POWER OFF and remove the jammed notes by hand.
Ed	Double notes	More than two notes are detected or a note that is too densely printed compare with a standard note.	Remove all the notes in the stacker; press the "START" key to clear the error message. Do recount all the notes.
Ec	Chained notes	More than two notes fed in chain.	
Eo	Batch over	The counting result is larger than the batch.	
Eh	Half note	Half banknote passed.	
DD	Suspect in High	Suspected note is mixed	Refer to the section "Start Counting" for details
CF1	CF notes		
CF2			
CF3			

Note: solution about the jammed notes

- 1) Use you hand or screw-driver to screw off the knob first (attached Fig 5)

I. APPEARANCES

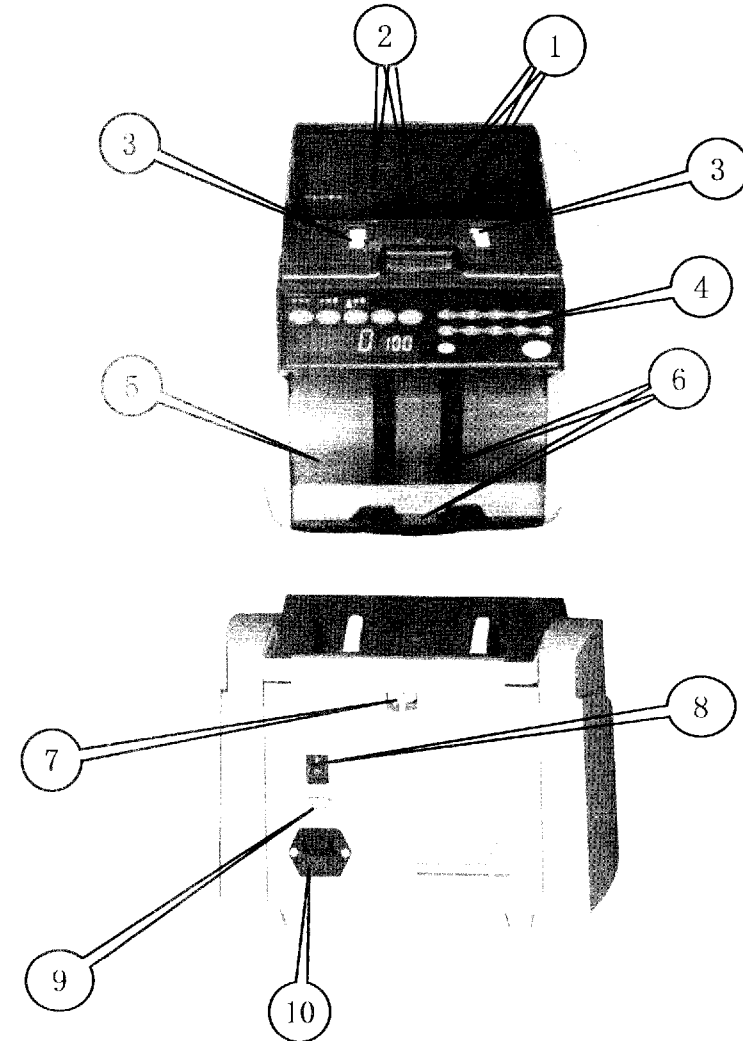


Fig.1 The Outlook

- | | | |
|-------------------------------|----------------------|------------------|
| 1. Hopper | 2. Auto-start sensor | 3. Upturn stick |
| 4. Keyboard & Display | 5. Stacker | 6. Repeat Sensor |
| 7. Thickness Adjustment Dial | 8. Power Switch | |
| 9. External Display Interface | 10. Power Inle | |

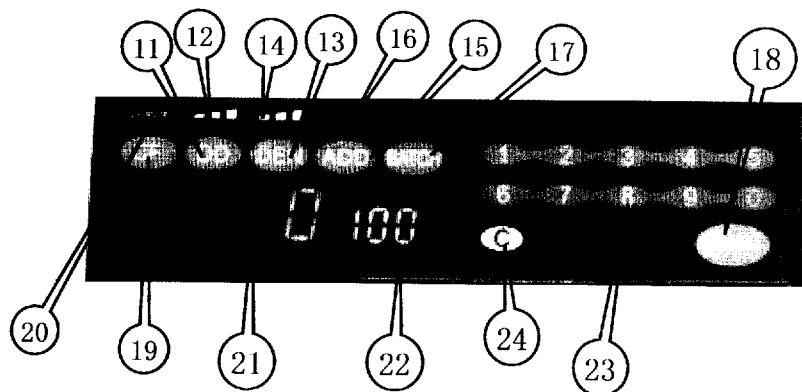


Fig.2 Keyboard & Display

11. DD Key 12. DD Level Indicator 13. DEN Key 14. Density Level Indicator 15. ADD Key 16. ADD Indicator 17. BATCH Key 18. Start Key 19. CF Key 20. CF Indicator 21. Counting Number Display 22. Batch Number Display 23. Key Pad 24. Clear Key

II. DESCRIPTION

1.Hopper

Notes to be counted are Placed on it.

2.Auto-Start sensor

When notes be put on hopper, The machine will start to work Automatically.

3.Upturn stick

It will upturn the notes on its hopper When system start to

4.Keyboard & Display

System keyboard, indicators and counting number and counting number and batch number display(Fig.2).

5.Stacker

The counted notes are stacked in it.

6. Repeat sensor

Repeat to count sensor.

7.Thickness Adjustment Dial

Used to make the smooth counting operation counting operation.

The thickness adjustment dial is set at the factory for the default use.

8.Power Switch

Used to turn main power ON or OFF.

9.External Display Interface

This Interface is used to connect the machine to an External Displayer.

removing the counted batch notes from the stacker.

If the counting stops in case the preset number has not been reached while all the banknotes in hopper have been counted, just refill the hopper, the machine will automatically continue the counting.

1. Count the banknotes with Detection Function

When the machine stops by the detection functions, check the last two counted notes, take the suspected one away. Press the "START" key will continues the counting. Be noticed that the suspected one is included in the counting results.

➤ With the DD function

To count the banknotes with the DD function enabled, MUST arrange the bank notes orderly, all the folded or curled notes should be straightened before putting on the Hopper, and also be sure use the Auxiliary Hopper Plates to limit the notes in the central of the Hopper.

➤ UV Detection Function

The UV Detection Function through initialized ON or OFF through the "CF" key. Whenever the machine stopped in "CF1" under this function, check the last two banknotes, take the suspected one away and press "START" key will continues the counting. The suspected one is included in the counting results.

➤ MG Detection Function

The MG detection function can be initialized ON or OFF through "CF" key. Whenever the machine stopped in "CF2" under this function, check the last two banknotes, take the suspected one away and press "START" key will continues the counting. The suspected one is included in the counting result.

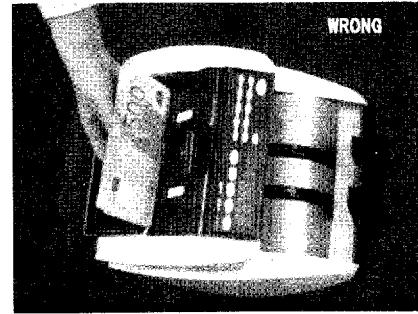
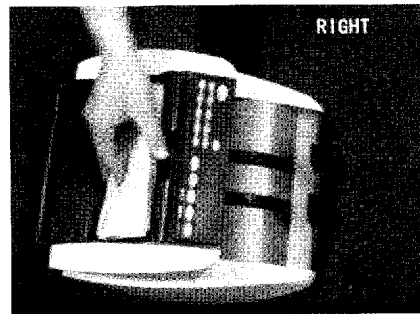
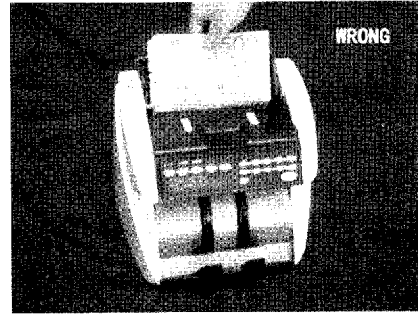
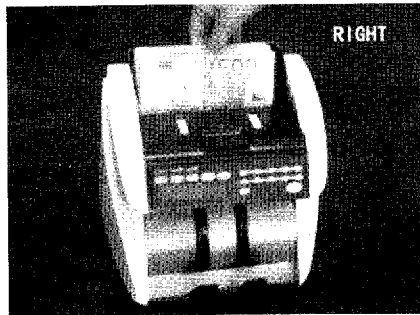
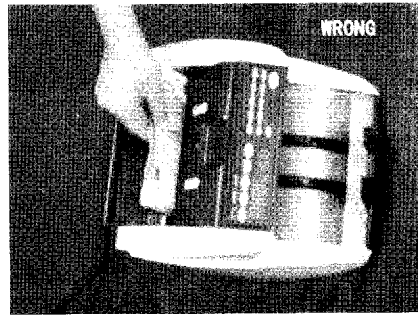
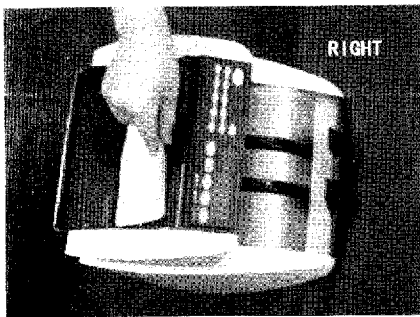
➤ MT Detection Function

The MT detection function can be initialized ON or OFF through "CF" key. Whenever the machine stopped in "CF1", "CF2" or "CF3" under this function, check the last two banknotes, take the suspected one away and press "START" key will continues the counting. The suspected one is included in the counting result.

2. Setting the Thickness Adjustment Dial

The Thickness adjustment Dial is set at the factory for the default use. However, it can be changed in the following cases:

- If the EC (chain) and/or Ed error occur frequently, turn the ADJ Dial toward "-"(thin).
- If the feeding operation does not go smoothly due to old notes,



➤ **Freely count all the banknotes**

If the Batch Number is set to "0", the machine will count all banknotes in the hopper without stop.

The "C" button can be used to set the Batch to "0".

➤ **Count the banknotes in batch**

Use the "BATCH" key or key pad to set a desired batch number, the machine will count and stop at the preset number.

Notes: The next counting can be started automatically by only

10. Power Inlet

The supplied power cord should be connected to the power inlet to reliable of AC power.

11. DD Key

By this key the machine is set to recognize the banknote which smaller or larger 3mm, 4mm or 5mm than the first banknote.

12. DD Level Indicator

Used to indicating the current DD level you set.

13. Density Level Key (DEN)

This key can change the reference level for the double sheets detection according to the degree of colour of the banknotes.

14. Density Level Indicator

Used to indicating the current density level you set.

15. ADD Key

By this key, the add function is selected on or off.

16. ADD Function ON or OFF Indicator

Used to indicating the current

ADD function is on or off you set.

17. Batch Key

A shortcut to setting the batch.

18. START Key

Used to initiate a counting operation, or to clear an error

message.

19. CF Key(option)

A shortcut to enable/disable the UV, MG or MT counterfeit detect function.

20. Counterfeit Detector Indicator

Used to indicating the current counterfeit detector function be selected.

21. Counting Number Display

Used to display the counting results (Up to 4 digits).

22. Batch Number Display

Used to display the batch number or the error message (Up to 3 digits).

23. Key Pad

This is a set of numerical keys (0-9). Used to preset optional batch size (up to 3 digits).

24. Clear Key

The clear key removes the Batch number on the Batch size display or clear the error's messages.

III. SPECIFICATIONS

- Ambient Temperature: 0 C ~40 C
- Ambient Humidity : 30 ~80%
- Feed system : Roller Friction System
- Hopper capacity : Up to 200 sheets
- Stacker capacity : Up to 200 sheets
- Size of countable note: 50 × 100 100 × 182(mm)
- Thickness of countable : 0.06 ~0.12(mm)
- Batch preset number display : 3 Digits LED
- Counting Number Display: 4 Digits LED
- Power Source : AC220V/50HZ or AC110V/60HZ
- Power consumption : 45W
- Dimensions : 279 mm × 272mm × 210mm
- Net Weight : 6Kg
- High detection sensitivity: 4/5/6 ± 1mm
- Counting speed: 1000 notes/min

IV. FUNCTION DEFINITIONS

1. ADD MODE

Allow the machine to add up all the counted results. An ADD key can be used to set the ADD function directly.

2. MG FUNCTION

MG function can be selected after pressing the CF key. Through this function, the machine will detect the counterfeit note, which is without the magnetism. When a counterfeit note is detected, the machine will stop at the message "CF2". The suspected note are the last two ones.

3. UV FUNCTION

UV function can be selected after pressing the CF key. A counterfeit note that does generate fluorescence under the ultraviolet rays can be detected when this function is set ON. The machine will stop at the error message "CF1". The suspected note is the last one.

4. MT FUNCTION

MT function can be selected after pressing the CF key. If open this function, both UV, and MG function should be opened.

5. DD FUNCTION

DD function can be selected after pressing the DD key. A size

detection function. The DD function will detect the passing banknote in the High size direction. When a smaller or larger banknote is detected, the machine will stop at the message "DD". Three sensitivity levels are selectable in this function, 4mm, 5mm and 6mm

5. DOUBLE DETECTION

This model machine will stop at "Ed" message when two or more banknotes pass through the machine at the same time. Setting the "DENSITY" can change the sensitivity of this function; the standard level of density is 2.

V. FEATURES

- Two note's placement modes(a patent device)
- Convenient and easy operation
- Batch count mode and free count mode.
- Addition count mode
- Counterfeit detection system(option)
- Automatic memorize the setting

VI. START COUNTING

Turn on power, setting a proper density level and other functions according to your banknotes.

First of all, you must know how to place notes in the hopper is right, see as following diagram: