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2. Function controls and display—before operation, please be clear which model you have bought

The model with no counterfeit detection

- a. Counting display
- b. BATCH display
- c. MG1” indicator
- d. MG2” indicator
- e. “UV” indicator
- f. “BATCH” indicator
- g. “ALARM” indicator
- h. “ADD” indicator
- i. “1” button
- j. “5” button
- k. “2” button
- l. “3” button
- m. “6” button
- n. “BATCH/ADD” button
- o. “RESTART” button
- p. “4/SET” button
- q. “7” button
- r. “8” button
- s. “9” button
- t. “MG” button
- u. “0/UV” button

The model with UV detection

The model with both UV and MG detection
3. General instruction

Being the latest generation of money counter, this model is the vanguard of our evolution in bill counting technology. Its compact and stylish design is as remarkable as its integrated electronics and multifunction capabilities. Different from other back-loading counter, it employs many new function detection methods which other back-loading counter doesn’t have. Being improved in many aspects of internal structure which make it quite different from other counting machine, this hi-tech compact counting machine is easy to operate and repair. It is sturdy and utterly reliable and suitable for all kind of banking industry and store department.

We recommend the user to verify that the box contains all of the items listed here:
1. Machine body
2. Operation manual
3. Rubber roller
4. Rubber tape
5. Brush
6. Plug
7. External display (option)

4. Safety Instructions

- Read and understand all of the instructions and warnings both on the machine and in the manual.
- Follow all warnings and instructions marked on the unit.
- This product should be operated only from the type of the power source indicated in the user’s guide. If you are not sure of the type of power supply in your location, consult your dealer or local power company.
- Only use the cable provided with the unit. The use of other cable may result in electric shock, fire or cause serious damage to the unit.
- Never push objects of any kind into the unit through case slots, since they may touch dangerous voltage points or shortcut parts, resulting in a risk of fire or electric shock.
- Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  a. When the power supply cord or plug is damaged or frayed.
  b. If liquid has been spilled into the unit.
  c. If unit has been exposed to rain or water.
d. If the machine has been dropped or the case has been damaged.
e. If the product shows a noticeable change in performance.
To reduce the risk of electric shock, do not disassemble this product. Take it to qualified service personnel when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
- Do not use the unit if the power cord is damaged or if the plug socket contact is loose. Not following these instructions may result in electric shock, fire or other hazards.
- When unplugging the power plug, do not pull it by the cord but rather grip the plug and pull it out, not following those instructions may result in electric shock, fire or damage to the unit.

5. Power up

Connect the power cord to the machine (power outlet), then plug it to power source and switch the unit on. The unit will conduct a self-checking by spanning the feeding roller while the UV or MG1/UV functions will be automatically turned on by default. The counting display will show ‘0’ when the unit is ready, which means the machine is in its normal working condition.

6. Counting function

1> Counting Function
Once the bills are correctly placed in the hopper, the machine will start counting automatically. The number of counted bills will be shown on the counting display. Moreover, once the bill removed from the stacker and start to another batch counting, the counting display will start from 1 and the ‘BATCH’ display in turn will be number of last counted bills instead.

Bills need to be placed correctly as indicated in the following steps:
Place the bill between the counting guides as shown in the figure 1 and figure2. Swiftly, push the bills with a finger<see figure3> to make them rest on the top of the hopper plate and in the correct counting position.
2> Addition Function
The Addition function can be performed by pressing the ‘BATCH/ADD’ button twice. When the ADD indicator is on, in this case, removing the counted bills from the stacker and start another batch counting, the counting display will not show number from 1 and will be added to previous counted quantity. Press ‘BATCH/ADD’ button again to close this function.

3> BATCH Function
The BATCH function can be performed by pressing ‘BATCH/ADD’ button twice, when pressing the ‘BATCH/ADD’ button to select the ‘BATCH’ indicator is on, the BATCH number will be set to 100 by default, you can set any batch value by pressing number keypads, for samples setting 25, then just press number keypads ‘2’ and ‘5’.

Note: The Addition function can be performed when the batch function is on. In this case, the machine will stop automatically when its counting quantity is up to the batch value. When starting another batch counting, the counting display will show the total counting sum that’s added from previous counted quantity.
7. Counterfeit Detection

- UV (Ultraviolet) detection function <available for the model with UV detection or the model both with UV and MG detections>
  Used to check all kinds of banknotes which contains UV feature. The UV function is automatically turned on by default when the machine is powered up. It can also be selected or deselected by pressing the UV button located in the function console. If the machine detects a counterfeit note during counting, it will stop and emit beeping sound, while the counting display will show the message ‘E-2’ and the ‘ALARM’ indicator will blink (alerting the presence of a dubious bill). The dubious bill will always be the last one in the stacker. Remove dubious bill and press ‘BATCH’ button to continue counting.
  PLEASE NOTE: there are 10 levels of UV for selection: press ‘SET/4’ button once the counting display window showing ‘OP-A’ and the batch display window showing one digit of the number ‘00-10’. Press the button ‘1’ or ‘7’ to select ‘UV’ sensitivity as required. If setting value is higher, the Stronger UV sensitivity, and confirmed by pressing ‘RESTART’ button.
- MG (magnetic) detection function <available for the model with both MG and UV detection>
  Used to check all kinds of banknotes which contains MG feature. The MG1 function is automatically turned on by default when the machine is powered up. It also can be selected or deselected by pressing the MG button located in the function console.
  PLEASE NOTE: there are two level of MG: MG1 and MG2, MG1 detect the banknote with low magnetism and MG2 detect the banknote with high magnetism. They can be selected and deselected by pressing MG button. The MG1 is automatically activated by default when powered up, pressing MG 2 is activated and MG2 indicator is on. Press MG button one time, then MG2 is activated and MG2 indicator is on. Press MG buttons one more time to close MG function and COUNT indicator is on.
If the machine detects a counterfeit banknote during counting, it will stop counting and emit beeping sound, while the counting display will show the message ‘E-3’ and the ‘ALARM’ indicator will blink (alerting the presence of a dubious bill). The dubious bill will always be the last one in the stacker. Remove the dubious bill and press ‘RESTART’ button to continue counting.

· Additional functions (option)

1> Chain notes detection
Serving as a supplementary function, the double-note detection can be activated when the unit is powered up. If the machine detects a double-note during counting, it will stop and emit beeping sound. While the counting display will show the message ‘E-9’ (alerting the user the presence of a double-note bill). Take away the bill and press ‘RESTART’ button to continue counting.

Please note: the suspicious bill will be added to the counted quantity.

2> Half-note detection
By default, serving as a supplementary function, the half-note detection can be activated when the unit is powered up. If the machine detects a half-note during counting, it will stop and emit beeping sound. While the counting display will show the message ‘E-1’ (alerting the user the presence of a half-note bill). Take away the dubious bill and press ‘RESTART’ button to continue counting.

Please note: the suspicious bill will be added to the counted quantity.

3> Bill feeding mode
Press ‘SET/4’ button several times until the counting display window showing ‘OP-E’ and batch display window showing ‘YES’ or ‘NO’. ‘YES’ means the machine is in Automatic Feeding Mode, in this mode, once the hopper loaded with bills, the machine will automatically start counting; ‘NO’ means the machine is in Manual Feeding Mode, in this mode, the machine only start to count by pressing ‘RESTART’ button. You can select ‘Bill Feeding Mode’ by pressing button ‘1’ or ‘7’, and confirmed by pressing ‘RESTART’ button.
4> Size detection
Press ‘SET/4’ button several times until the counting display window showing ‘OP-d’ and batch display window showing ‘YES’ or ‘NO’. Press button ‘1’ or ‘7’ to select the Size Detection Function is in ‘on’ or ‘off’. ‘YES’ means this function is on, vice versa, and confirmed by pressing ‘RESTART’ button.

5> Whether the suspicious bill included or not?
Press ‘SET/4’ button several times until the counting display window showing ‘OP-U’ and batch display window showing ‘YES’ or ‘NO’. ‘YES’ means the suspicious bill included in the total counted value, vice versa. You can select this function by pressing button ‘1’ or ‘7’, and confirmed by pressing ‘RESTART’ button.
Attention: To resume the original setting, press and hold the ‘MG’ button for 3-5 seconds until you hear a sound ‘click’

8. Error message and solution
The BATCH display may show some error messages when counting, which means there are some problems with the machine or the presence of dubious bill. Refer to the following diagram to find way to solve it.
<table>
<thead>
<tr>
<th>Message</th>
<th>Error</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-1</td>
<td>Half-note detected by half-note detection system; Problem in the half-note detection system.</td>
<td>Remove the suspicious bill in the stacker, press “RESTART” to continue.</td>
</tr>
<tr>
<td>E-2</td>
<td>Suspicious bill detected by UV system; Problem in the UV system.</td>
<td>Remove the suspicious bill in the stacker, press “RESTART” to continue; Lower the UV sensitivity.</td>
</tr>
<tr>
<td>E-3</td>
<td>Suspicious bill detected by MG system; Problem in the MG system.</td>
<td>Remove the suspicious bill in the stacker, press “RESTART” to continue; Lower the MG sensitivity.</td>
</tr>
<tr>
<td>E-5</td>
<td>Note of size problem detected by size detection system; Problem in the size detection system.</td>
<td>Remove the suspicious bill in the stacker, press “RESTART” to continue; Lower the size checking sensitivity.</td>
</tr>
<tr>
<td>E-8</td>
<td>Double-note detected by IR system; Problem in the IR system.</td>
<td>Remove the suspicious bill in the stacker, press “RESTART” to continue; Lower the IR sensitivity.</td>
</tr>
<tr>
<td>C-1</td>
<td>Problem with the Auto-Start sensor.</td>
<td>Clean the sensor or replace it.</td>
</tr>
<tr>
<td>C-2</td>
<td>Problem with the BATCH sensor.</td>
<td>Clean the sensor or replace it.</td>
</tr>
<tr>
<td>C-3</td>
<td>Problem with the left counting sensor.</td>
<td>Clean the sensor or replace it.</td>
</tr>
<tr>
<td>Message</td>
<td>Error</td>
<td>Solution</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>C-4</td>
<td>Problem with the right counting sensor.</td>
<td>Clean the sensor or replace it.</td>
</tr>
<tr>
<td>C-5</td>
<td>Problem with UV sensor.</td>
<td>Check the connection.</td>
</tr>
<tr>
<td>C-6</td>
<td>Problem with the speed sensor.</td>
<td>Clean the sensor or replace it.</td>
</tr>
<tr>
<td>C-7</td>
<td>Problem with MG sensor.</td>
<td>Clean the sensor or replace it.</td>
</tr>
<tr>
<td>C-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Generally speaking, most of the above-mentioned problems may be caused by dust or dirt inside of the machine. Keeping the machine clean is highly recommended.

9. Hopper adjustment

- When improper feeding of bills occur, adjust the bill thickness in the hopper by turning the bill adjustment screw located in the back of the machine to ensure proper feeding.

- Turn it right to decrease the thickness (see figure 4)

- Turn it left to increase the thickness (see figure 5)
10. Maintenance

- Do not operate the unit in areas with high temperature or high humidity since it may cause the machine to stop working or preventing it from counting accurately.
- When not using the unit for a long period of time, remove the power plug from the wall outlet.
- Never operate the unit under strong light.
- Clean the machine frequently after switching off and unplug the machine.
- Do not use this product in areas where it may be exposed to water or other liquids.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaner. Use a damp cloth for cleaning.

11. Features

- Automatic detecting with UV (ultraviolet) and MG (magnetic) while counting
- Suitable for most currencies in the world
- Automating start, stop and clearing
- With batching, adding and self-examination functions
- Automatic half-note detection
- Double-notes detecting<with IR (infrared ray) detection system>

12. Specifications

- Dimension: 300mm × 260mm × 200mm
- Countable Banknote Size: 50 × 100 – 90 × 185cm
- Net Weight: 6.3kgs
- Counting speed: >900pcs per min
- Power Supply: AC220V ± 10% 50Hz  AC110V ± 10% 60Hz
- Power Consumption: < 80W
- BATCH Range: 1-999
- Counting Display: 4 Digital LED