

# Currency Value Counter(TFT Display) Operation Manual



- Thank you for purchasing our value counter.
- One-year warranty starts from the date of supply.
- All relevant operating instructions for the machine are compiled in this user guide.
- New users are recommended to read the manual thoroughly in order to get a good command of the machine.

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# 1. General Introduction

The money counter is the perfect solution for a fast, accurate and reliable banknote counting process. This machine is the vanguard of our evolution in currency counting technology. Its compact and stylish design is as remarkable as its integrated electronics and multifunctional capabilities. Now it is an essential tool for banks, casinos, supermarkets, movie theaters, retail shops and the like. What's more, we are marching to more advanced and more intelligent money counter field.






We recommend the user to verify that all of the items listed below are contained in one box:

- 1. Machine
- 2. User Manual
- 3. Power Cord
- 4. External Display (optional)
- 5. Fuse
- 6. Conveyor Belt (optional)
- 7. Cleaning Brush
- 8. Rubber Roller (optional)

# 2. Important Safety Instructions

When you use this money counter, basic safety precautions should be followed to reduce the risk of fire, electric shock or injury; Check the precautions as following:

 <b>Warning</b>	
	Do not use 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 or aerosol cleaners. Use a damp cloth for cleaning.
	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- like the rear cover plate-may expose you to dangerous voltages or other risks. Incorrect re-assembly can cause electric shock when the appliance is subsequently used.
	Only use the cable provided with the unit. The use of other cables may result in electric shock, fire or cause serious damage to the unit.
	Do not operate the unit in areas with high temperature or high humidity since it may prevent it from working correctly.

 <b>Caution</b>	
	When unplugging the power plug, do not pull it by the cord but rather grip the plug to pull it out. Not following these instructions may result in electric shock, fire or damage to the unit.
	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.
	Do not place heavy objects over the cord and do not bend it excessively since it could get damaged. Not following these instructions may result in electric shock, fire or other hazards.
	When not using the unit for a long period of time, remove the power plug from the wall outlet.

# 3. Operation Method

Connect the power cord to the machine, then to a power source and turn on the power switch; The machine will conduct a self-check by spinning the counting wheels several times. To avoid detecting troubles, please check and take out the banknotes listed below before counting:

- 1. Mended Notes with Paper
- 2. Washed Notes
- 3. Very Dirty Notes
- 4. Broken Notes

## 4. Correct Feeding of Banknotes

Banknotes need to be put orderly and placed between the counting guides, please refer to the following pictures:

Method one:

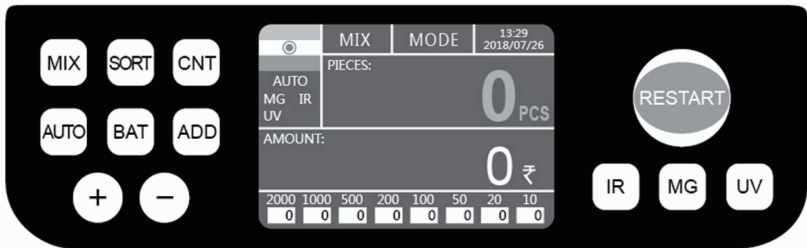


Method two:



## 5. Control Panel Introduction

Type One:



“**MIX**” Button: Pressing this button switches to mix value counting mode, the original mode when the machine is turned on.

“**SORT**” Button: Press this button to switch to denomination sorting mode.

“**CNT**” Button: Press this button to switch to sheet counting mode.

“**AUTO**” Button: Press this button to switch automatic and manual modes.

“**BAT**” Button: Press this button to switch to batch counting mode.

“**ADD**” Button: Press this button to switch to add counting mode.

“**RESTART**” Button: Press this button to reset; Press and hold for 5 seconds to turn on/off voice function.

“**IR**” Button: Press this button to turn on/off IR detection.

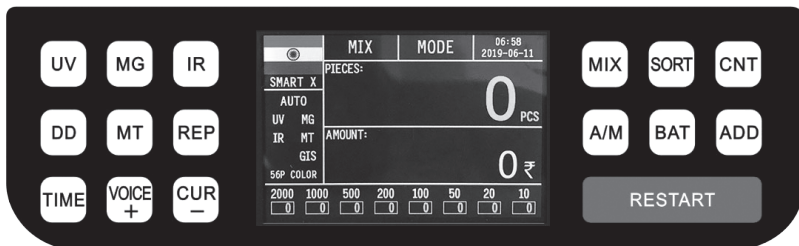
“**MG**” Button: Press this button to turn on/off MG detection.

“**UV**” Button: Press this button to turn on/off UV detection.

**Time Setting:** Pressing “BAT” button and holding for 5 seconds turns to time setting. “MIX” button is for number increasing, “ADD” button is for number decreasing, “BAT” button is for number switching.

**NOTE:** After you finish the setting, please put your finger on hopper sensor and the roller will run, then the setting will be saved.

**Type Two:**



**“UV” Button:** Press this button to turn on/off UV detection.

**“MG” Button:** Press this button to turn on/off MG detection.

**“IR” Button:** Press this button to turn on/off IR detection.

**“DD” Button:** Press this button to turn on/off DD detection.

**“MT” Button:** Press this button to turn on/off MT detection.

**“REP” Button:** Press this button to show the list of denomination sorting. The list can be printed out.

**“TIME” Button:** Pressing and holding this button for 5 seconds turn to time setting mode, then “TIME” button is for number switching, “VOICE/+” and “CUR/-” are for number decreasing and increasing. Finally pressing “RESTART” button or pressing and holding “TIME” button for 5 seconds saves the modified date.

**“VOICE/+” Button:** Press this button to turn on/off voice function or increase numbers.

**“CUR/-” Button:** Press this button to switch currencies (IDR, USD and EURO) or decrease numbers.

**“MIX” Button:** Pressing this button switches to mix value counting mode, the original mode when the machine is turned on.

**“SORT” Button:** Press this button to switch to denomination sorting mode.

**“CNT” Button:** Press this button to switch to sheet counting mode.

**“A/M” Button:** Press this button to switch automatic and manual modes.

**“BAT” Button:** Press this button to switch to batch counting mode.

**“ADD” Button:** Press this button to switch to add counting mode.

**NOTE:** After you finish the setting, please put your finger on hopper sensor and the roller will run, then the setting will be saved.

## 6. Functions Introduction

### Mix Value Counting Function

The mix value counting mode will start to work after you press “MIX” button. It is the original mode when the machine is turned on.

On this mode, the machine will recognize denomination automatically. Simultaneously the main display will show total pieces, total value and sheets number of each denomination; The side and the external displays will show total pieces and total value.

### **Sort Function**

Pressing "SORT" button switches to denomination sorting mode.

When SORT mode is on work, the first counted banknote will be memorized, the machine will stop counting and emit beeping sound once different denominations detected. The display will show "EOC", alerting the presence of a banknote of different denomination. The machine will continue to work when the banknote is removed from the stacker.

### **Counting Function**

Pressing "CNT" button switches to sheet counting mode.

On CNT mode, once the banknotes are correctly placed in the hopper plate, the machine will start counting automatically. The number of counted banknotes will be shown on the pieces counting line. For next counting, the pieces counting line will be cleared and the amount counting line will show the number of last counted banknotes.

### **Automatic or Manual Mode Function**

Pressing "A/M" button switches automatic and manual modes.

Automatic Mode: The machine begins counting automatically when banknotes are placed in the hopper.

Manual Mode: Press "RESTART" button to start counting after banknotes are placed in the hopper.

### **Batch Function**

Pressing "BAT" button switches to batch counting mode.

When batch mode starts to work, the initial number is 100, press "CUR/-" button to decrease it.

First Press: the batch number is 100

Second Press: the batch number is 50

Third Press: the batch number is 20

Fourth Press: the batch number is 10

Fifth Press: the batch number is 1.

"VOICE/+" button will help to increase the batch number one by one.

On batch mode, the machine will stop when the counted quantity reaches the preset batch number. The machine will come to another batch counting once the batch banknotes removed from the stacker.

### **ADD Function**

Pressing "ADD" button switches to add counting mode.

The number of pieces and value of the later batches of banknotes will be added to the former batches, simultaneously showing on the main display, side display and external display.

### **Half-note Detection Function**

Half-note detection will start to work automatically when the machine is powered up. If the machine detects a half bill, it will stop and emit beeping sound, while the display will show "E41", alerting the presence of a suspicious note. After the suspicious note is removed from the stacker, the machine will continue to work. Please note that the number of suspicious banknotes will be added to the total quantity.

### **Chained-note Detection Function**

Chained-note detection will start to work automatically when the machine is powered up. If the machine detects chained bills, it will stop and emit beeping sound, while the display will show "E80", alerting the presence of a suspicious note. After the suspicious note is removed from the stacker, the machine will continue to work. Please note that the number of suspicious banknotes will be added to the total quantity.

### **Double-note Detection Function**

Double-note detection will start to work automatically when the machine is powered up. If the machine detects double bills, it will stop and emit beeping sound, while the display will show "E80", alerting the presence of a suspicious note. After the suspicious note is removed from the stacker, the machine will continue to work. Please note that the number of suspicious banknotes will be added to the total quantity.

### **UV (Ultraviolet) Detection Function**

UV function works for detecting the banknotes with UV features.

UV detection will start to work automatically when the machine is powered up. If the machine detects counterfeit money, it will stop counting and emit beeping sound, The display will show "E10", alerting the presence of a suspicious note. After the suspicious note is removed from the stacker, the machine will continue to work.

### **MG (Magnetic) Detection Function**

MG function works for detecting the banknotes with MG features.

MG detection will start to work automatically when the machine is powered up. If the machine detects counterfeit money, it will stop counting and emit beeping sound. The display will show "E31 or E63", alerting the presence of a suspicious note. After the suspicious note is removed from the stacker, the machine will continue to work.

### **IR (Infrared) Detection Function**

IR function works for detecting double-note banknotes.

IR detection will start to work automatically when the machine is powered up. If the machine detects double notes, it will stop counting and emit beeping sound. The display will show "E80", alerting the presence of double bills. After the note is removed from the stacker, the machine will continue to work.

### **MT (Metal Thread) Detection Function**

MT function works for detecting the banknotes with metal thread.

MT detection will start to work automatically when the machine is powered up. If the machine detects counterfeit money, it will stop counting and emit beeping sound. The display will show "E6X", alerting the presence of a suspicious note. After the suspicious note is removed from the stacker, the machine will continue to work.

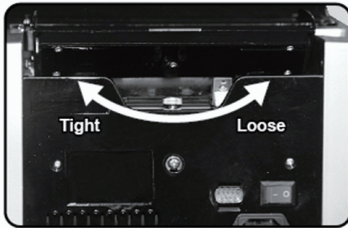
## **7. Hopper Plate Adjustment** \_\_\_\_\_

When banknote feeding is unsmooth or banknote counting is inaccurate, it can be

solved through adjusting the vertical adjusting screw as well as the gap between resistance rubber and rubber wheel.

Turn it clockwise to decrease gap in order to add friction (tight).

Turn it anticlockwise to increase gap in order to reduce friction (loose).



## 8. Error Code and Solution

The display may show error code when counting, which means there is problem with the machine. Refer to the following sheet to find way to solve it.

Error code	Reason	Solution
E0C	Fake note detected by IR	Remove the fake note from the stacker, press "RESTART" to continue
E10	Fake note detected by UV	Remove the fake note from the stacker, press "RESTART" to continue
E31/E63	Fake note detected by MG	Remove the fake note from the stacker, press "RESTART" to continue
E41	Half note detected	Remove the half note from the stacker, press "RESTART" to continue
E80	Double note detected by IR	Remove the suspicious note from the stacker, press "RESTART" to continue
E81	Chain note or different width note detected	Remove the suspicious note from the stacker, press "RESTART" to continue
E82	Roll note detected	Remove the roll note from the stacker, press "RESTART" to continue
E85/E86	Different length note detected	Remove the suspicious note from the stacker, press "RESTART" to continue
E87	Problem with oblique notes	Remove the oblique note from the stacker, press "RESTART" to continue
EC01	Problem with UV sensor	Clean the sensor or replace it
EC02	Problem with code disc sensor or big motor	Replace the code disc sensor or big motor
EC03	Problem with left counting sensor	Clean the sensor or replace it
EC04	Problem with right counting sensor	Clean the sensor or replace it
EC05	Problem with hopper sensor	Clean the sensor or replace it
EC08	Problem with stacker sensor	Clean the sensor or replace it

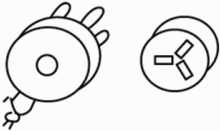
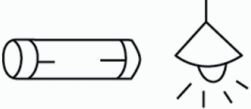
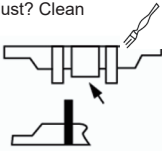


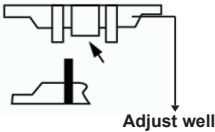
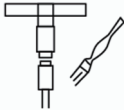
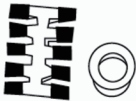
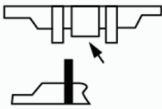
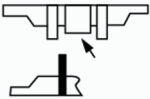



Generally speaking, most of the above mentioned problems may be caused by dust or dirt inside of the machine. So keeping the machine clean is highly recommended.

## 9. Common Troubles and Solution

Before repairing, please check the problems as below:

NOTE: Make sure to turn off power switch and unplug the outlet before repairing

Not working		
<p>Check if the plug is well inserted into socket.</p> 	<p>Check if the power fails or fuse bum out.</p> 	
Fail to start or stop normally		
<p>Feeding Sensor covered in dust? Clean</p> 	<p>Feeding sensor not in connection with electric circuit? Check and connect</p> 	<p>Transmission belt of the motor not proper in tension, too tight or loose. Adjust well</p> 
Counting Error		
<p>Hopper position adjusted improperly?</p> 	<p>Counting sensor covered in dust? Clean</p>  <p>Clean</p>	<p>Drag rubber and feeding wheel worn too much?</p>  <p>Change</p>
False Alarm		
<p>Fluorescent sensitivity adjusted improperly?</p>  <p>Adjust well</p>	<p>Verifying sensor covered in dust? Clean</p>  <p>Clean</p>	<p>Fluorescent lighting diode aged? Change</p>  <p>Change</p>

## 10. Machine Settings

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### UV Sensitivity Adjustment:

Press "CNT" button, press "BAT" button, press "VOICE/+" to reach "BAT:103"; Then press "BAT" and "ADD" button at the same time for about 2 seconds, then press "BAT" button to switch to "E10" to set UV sensitivity. Press "VOICE/+" or "CUR/-" to increase or decrease the parameter. If the parameter is larger, the UV sensitivity will be lower. If the parameter is smaller, the UV sensitivity will be higher,

IR and MG sensitivity are not necessary to be adjusted.

NOTE: After you finish the setting, please put your finger on hopper sensor and the roller will run , then the setting will be saved.

### Time Setting:

Pressing and holding "TIME" button for 5 seconds turn to time setting mode, then "TIME" button is for number switching, "VOICE/+" and "CUR/-" are for number decreasing and increasing. Finally pressing "RESTART" button or pressing and holding "TIME" button for 5 seconds saves the modified date.

### Factory Setting:

Press "CNT" "BAT" and "ADD" buttons at the same time and then turn on the machine, the machine will restore to factory settings.

## 11. Maintenance

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- Do not operate the machine under the conditions with high temperature or high humidity since it may cause the failure to work or inaccuracy.
- Please unplug the machine when it is not in use for a long time.
- Do not operate the machine when exposed to strong light.
- Clean the machine frequently after switching off and unplugging it.
- Please use a damp cloth for cleaning instead of a liquid cleaner or aerosol cleaner.

## 12. Features and Specifications

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### FEATURES :

1. Automatic start, stop and clear
2. Double Color Sensors
3. Simulation Human Voice Broadcast Function
4. Multiple Detection Mode: UV, MG, IR, MT, DD
5. Multiple Functions: Value Counting, Denomination Sorting, Counterfeit Bills Detection, Batch, Add and Mix Counting, Half-note, Double-note and Chained-note Detection

## **SPECIFICATIONS :**

Net Weight: 6 KG

Gross Weight: 7 KG

Dimensions: 310 mm x 280 mm x 190 mm

Size of Carton: 372 mm x 320 mm x 243 mm

Size of Countable Note: 50 mm x 110 mm ~ 90 mm x 180 mm

Thickness of Countable Notes: 0.075 mm - 0.15 mm

Ambient Temperature: 0°C - 40°C

Ambient Humidity: 25% - 80%

Counting Speed: >1000 pcs/min

Hopper Capacity: 300 pcs

Stacker Capacity: 200 pcs

Power Consumption: AC220V  $\pm$  10% 50Hz AC110V  $\pm$  10% 60Hz

