

Bill Counter

User's Manual

Thanks for Use

Precaution!!!

For your personal safety, please use only the socket with grounding connection.

Be sure the power supply complies with the specific limit.

1) Technical Data

- A. Counting Speed: > 1000pcs/min
- B. Hopper & Stacker Capacity: >130pcs
- C. Banknote Size: Max. 90 x 175mm, Min. 50 x 100mm
- D. Counting Display Range: 1-999pcs/1-9999pcs
- E. Preset Display Range: 1-999pcs/1-9999pcs
- F. Power Supply: 220V (1±10%), 60Hz
110V (1±10%), 60Hz
- G. Max. Working Current: 0.5A
- H. Ambient Temperature: 0 ~ +40°C
- I. Relative Humidity: 40% ~ 90%
- J. Noise: < 60dB
- K. Power Consumption: 60W
- L. Weight: 8kg

2) How to operate

Plug the cord into the right power supply socket. If your counter has the outer display, please plug to connect well.

After switching on (better in performance to keep it set-up running for one minute), your counter will start self-diagnosis, and then enter "MG 1/UV" working mode when no trouble is detected. Now only feed banknote to keep it working. When some code appears in display, please refer to the chapter of "Common Trouble & Solution" to solve the problem before normal working.

Select the working mode of MG 1, MG 2, Counting and UV:

1. When the panel features the key of "Function", press the key to select the

- working modes of "MG2, Counting, and MG1" in circle; and the responding indicator will be on.
- When the panel features the keys of "MG" and "Counting", press the "MG" key to select the working mode of "MG1, or MG2" in circle; and press the "Counting" key to enter working mode of "Counting" directly and shut off the "MG" detecting function synchronously.
 - When the panel features no key of "UV", the machine keeps the "UV" detecting function on always; when the panel features the key of "UV", please press the key to keep the function on or off.

Select the working mode of "Preset" and "ACCUM" in the standby state:

- Press the "Select" key to keep "Preset" and "ACCUM" mode on in circle; and the responding indicator will be on.

3) Caution & Maintenance

- 3.1. Rated power supply: AC220V ($\pm 10\%$) 60HZ ; and optional for AC110V ($\pm 10\%$) 50Hz. Be sure to cut off power supply and unplug the cord before disassembling or stopping for a time.
- 3.2. Keep far away from some electric appliances (e.g. cell phone or welder) that can cause interference on power supply while using. Avoid direct strong light or magnetic field; otherwise, the counter may not work desirably.
- 3.3. Protect feeding wheel, driven wheel, drag rubber against touching with grease; otherwise, the feeding wheel may be sliding to cause counting error.
- 3.4. In case of sudden failure of power supply, please switch on again after at least 5 seconds; otherwise, the counter may not work normally.
- 3.5. Completely clean counting tube and sensors once every week. Only take part the top shield, use a brush to clear away the dust. (Be sure to cut off the power supply before cleaning)
- 3.6. Keep the counter well grounded (earth wire), as the counter may produce static charge in use. Don't store the counter in a wet place, which may cause electric shock.
- 3.7. Be sure to cut off the power supply while the counter is not in use for a long time or without operator's care.

3.8. Please cut off the power supply and contact maintenance worker for repair services in case that the below case happens:

- A. Heavily broken due to falling
- B. Not work even by following the operation instructions
- C. Function abnormal
- D. Liquid splashed onto the counter

4) **Function**

- A. **MG1:** For counting and detecting the banknote that's low in magnetism
- B. **MG 2:** For counting and detecting banknote that's strong in magnetism like US dollars.
- C. **Counting:** For counting and spectrum-detecting banknote that's without magnetism
- D. **Counting:** For "UV" detecting; generally keep the function on while counting.
- E. **Preset:** Press the preset button to activate the function; Now press "+" or "-" button to preset the counting batch as required. The counter will stop automatically while completing the setup pieces; and starting again after taking away the banknote from stacker. Press the "Select" key to cancel the function.

Note: For 3-digit counting display, the preset range is from 1 to 999; and for 4-digit counting display, range from 1 to 9999.

- F. **ADD:** The counter may add up the counting result each time at this mode. Only when taking away the banknote from stacker and pressing the "reset" key to clear up the result, the counter can start counting from zero and accumulating again.

Note: For 3-digit counting display, the accumulating range is within 999; and for 4-digit counting display, range within 9999.

5) **Before counting**

Clear up the banknote and sort as per par value, clear away stains on banknote and spread properly, and feed onto hopper for counting. For the

bundled banknote, please loosen first and spread out properly before feeding onto hopper.

See the illustration: Fig.1 the proper way to feed banknote; Fig.2 and Fig.3 improper ways. Fig. 2 shows that the operator forgets to keep banknotes spreading properly; and Fig. 3 shows that the operator spreads the banknotes improperly.

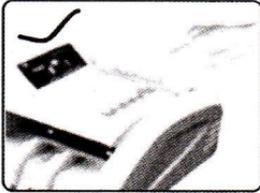


Fig. 1

Proper way to feed banknote

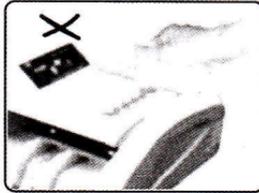


Fig. 2

Improper way

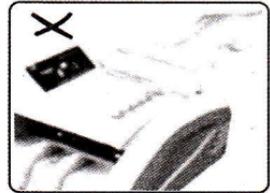


Fig. 3

Improper way

6) How to adjust the hopper

When banknote feeding is not desirable, please adjust the gap between drag rubber and feeding wheel through the screw on the hopper. After adjusting, test the tension by feeding one piece of banknote between drag rubber and feeding wheel. Better to keep the tension at 2Kg after adjustment. (Clockwise to fasten, Anti-clockwise to loosen)

7) How to change the consumable parts

- 7.1. Please change the drag rubber when it's worn out. Unscrew the adjusting screw, take out the banknote stand and press the hopper board to take apart, and then take away the worn rubber to change a new one.
- 7.2. Please change the feeding wheel when it's worn out; otherwise, the feeding and counting may not be desirable. Take out the banknote stand and take apart plastic shield at both sides, use long-nose pliers to take out the snap ring on the feeding shaft for loosening the shaft, and then take away the worn feeding wheel to change a new one.

8) **Common Trouble & Solution**

8. 1. Common Trouble & Solution

Trouble	Cause	Solution
Not work after switching	1. Infrared targeting tube improper in position	1. Keep aligned with infrared tube
	2. Dust covered on infrared tube and targeting tube	2. Clear away dust
Counting error	1. Infrared targeting tube not good	1. Change
	2. Dust covered on infrared targeting tube	2. Clear away dust
Reset Key not functional	Key broken 2. Connection not well	Change; connect
Counting result cleaned automatically	Reset Key broken	Repair
Motor not work	1. Circuit not well	1. Check the connection with motor
	2. Starting capacitor of motor broken	2. Change
	3. Motor burn out or broken	3. Change
Driven wheel not run while motor works	Transmission belt broken or aged	Change
Noise from driven wheel	Driven wheel not fastened or not close to bearing, so as to make bearing sliding	Keep the wheel close to bearing and fasten the screw

8.2. Code displayed after self-diagnosis & Solution

Trouble Code	Trouble Position	Solution
C-1	Feeding Sensor	Clear away dust and other impurities
C-2	Stacking Sensor	
C-3	Counting Sensor1	Clear away dust and other impurities
C-4	Counting Sensor2	
C-5	UV Sensor	Check the connection
C-6	Speed Sensor	Clear away dust and other impurities

8.3. Alarming Code

Code	Cause
E-1	Banknote Half-sheeted
E-2	UV Problem
E-3	Magnetism Problem
E-9	Banknote Sandwiched

9) **Packing List**

Please check the below attached parts while unpacking

No.	Items	QTY
1	User's Manul	1
2	Warranty Card	1
3	Brush	1
4	Cord	1
5	External Display (Optional)	1
6	Consumables	1 sets

We reserve the right to make technical modification without prior notice.