Manual

Banknote counter

FiscalFlow-2010

Table of contents

Specifications: 3
Set contents: 4
Safety measures: 4
Operating Mode: 5
Correct feeding of banknotes: 5
Control Panel Introduction: 6
Control Panel Introduction: 7
- Counting function 7
- UV (Ultraviolet) Detection Function 7
- MG Detection Function (Magnetic) 8
- MT (Metal Thread) detection function 8
- IR (Infrared) detection function 8
- DD detection function 9
- Total Value Calculation Function 9
- Automatic or manual counting mode 10
- Batch function 10
- Add function 11
- Half Banknote Detection Half 11
- Banknote String Detection 12

Feeder plate adjustment: 12
Error codes and solutions: 13
Common problems and solutions: 14
Machine Settings: 15
- UV sensitivity adjustment 15
- MG sensitivity adjustment (magnetic detection) 15
- Missing or not taking into account the counterfeit banknote 16
- Turning the voice function on/off 16
- Factory reset 16

Maintenance: 16

Specifications:

- **Warranty:** 1 year
- **Color:** Black, Silver
- **Counting Speed:** 1000 Notes/Min
- **Feeder capacity:** 300 banknotes
- **Stack capacity:** 200 banknotes
- **Size of the countable banknotes:** 50 × 110 mm - 90 × 180 mm
- **Thickness of countable banknotes:** 0.075 mm - 0.15 mm
- **Functions:** automatic start, stop and clear, batch, add and self-check function, LCD display color change to red when counterfeit banknote is detected, suitable for most currencies in the world.
- **Counterfeit Banknote Detection:** Magnetic, Ultraviolet, Metal Strip
- **Error Detection:** Detection of double banknotes, half banknotes, string of banknotes
- **Bill count display:** 4 digits
- **Power Consumption:** ≤80W
- **Power Supply:** AC220V ±10% 50Hz
- **Operating temperature:** 0-40°C
- **Operating Humidity:** 25-80%
- **Measurements:** 30 × 27 × 18 cm
- **Package dimensions:** 35.5 x 24 x 30 cm
- **Weight:** 5.25 kg
- **Weight with packaging:** 6.5 kg

Set contents:

- Banknote counter,
- external display,
- power cable,
- cleaning brush,
- fuse
- Conveyor
- rubber roller,
- Manual.

Safety measures:

When using the banknote counter, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or injury:

⚠ **Warning**

- Do not use this product where it may be exposed to water or other liquids.
- Disconnect the product from the power supply before cleaning it. Do not use gasoline, solvents, or other cleaning agents. Use a dry, soft cloth to clean.
- To reduce the risk of electric shock, do not disassemble the appliance. Repair should be carried out by a qualified service person.
- Do not touch any internal parts of the appliance during operation to avoid injury or electric shock.

⚠ **Remark**

- When disconnecting the plug, do not pull on the cable, but

grasp the plug itself.

- Do not use the appliance if the power cable is damaged or the socket outlet is not working properly.
- Do not place any objects on the cable or use the appliance in case of a damaged cord.
- If the appliance is to be left unused for an extended period of time, unplug it from the power source.

Operating Mode:

Plug the power cable of the device into an outlet, then into a power source and turn on the power button. The machine will do an automatic test with the rotation of the counting wheels. The main display will show "0" when the test is complete.

To avoid misdetection, please check and remove the banknotes before counting, which are as follows:

- Fixed Paper Banknotes
- Very dirty banknotes
- Washed banknotes
- Damaged banknotes

Correct feeding of banknotes:

The banknotes must be arranged in order and placed between the counting guides, as shown in the images below:

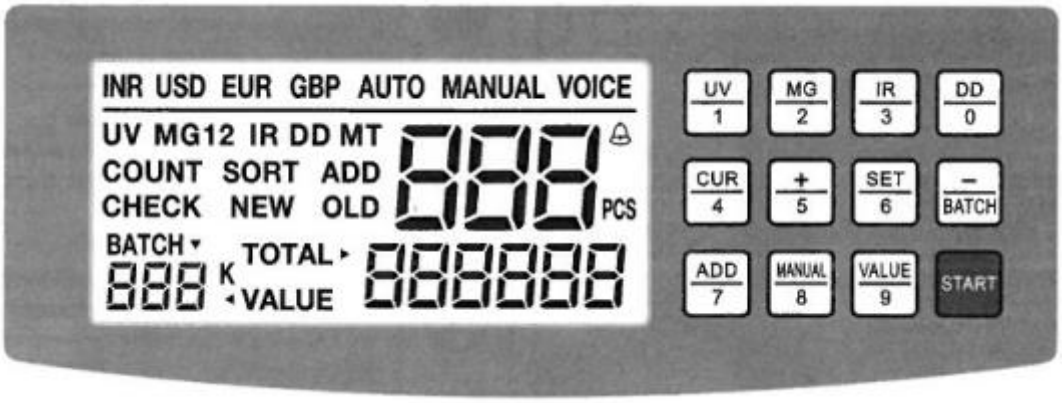
Method one:



Method two:



Control Panel Introduction:



"UV" Button: Press this button to turn on/off UV detection.
"MG" Button: Press this button to turn on/off MG and MT detection. The first press disables MT detection, the second disables MG detection.
"IR" Button: Press this button to turn on/off IR detection.
"DD" Button: Press this button to enable/disable DD detection.
"CUR" button: Press this button to select the currency.

HDWR Hardware for business
hdwrglobal.com

"BATCH" button: Press this button to turn on/off the BATCH function.
"ADD" button: Press this button to turn on/off the ADD function.

"MANUAL" button: Press this button to select MANUAL or AUTOMATIC mode for counting banknotes.

"VALUE" button: Press this button to select the banknote value calculation mode.

"SET" button: Press this button to set the sensitivity of the sensors.

"+" Button: In SET mode, press "+" to add "1". If you hold the button, the number will increase continuously. In the Value Calculation mode, "+" selects the denomination.

"-" button: In SET mode, press "-" to decrease "1". If you hold down the button, the number decreases. In the Value Calculation mode, "-" selects the denomination.

"START" button: Press this button to clear the number of banknotes.

Control Panel Introduction:

Counting function
Once the banknotes are correctly placed on the feeder plate, the machine will automatically start counting. The number of bills counted will be displayed on the screen.

UV (Ultraviolet) Detection Function
The UV detection function is turned on or off by the "UV" button on the control panel. UV checks banknotes that contain UV features. By default, the UV function is automatically turned on

when the device is turned on. If the machine detects a counterfeit banknote, it will stop counting and emit a sound. The message "A" will appear on the display, informing you of a suspicious banknote. Remove the counterfeit banknote and press "START" to continue counting.

MG Detection Function (Magnetic)

The MG detection function is turned on or off by the "MG" button on the control panel. The GM checks banknotes with magnetic security features. By default, the MG function is automatically enabled when the device is started. If the machine detects a counterfeit banknote, it will stop counting and emit a sound. The message "B" will appear on the display, informing you of a suspicious banknote. Remove the suspect banknote and press "START" to continue counting.

MT (Metal Thread) detection function

The MT detection function is turned on or off by the "MG" or "MT" button on the control panel. MT checks banknotes that contain metal threads. By default, MT is automatically enabled when the device boots up. If the machine detects a counterfeit banknote, it will stop counting and emit a sound. "Y" will appear on the display. Remove the suspect banknote and press "START" to continue counting.

IR (Infrared) detection function

The IR detection function is turned on or off by the "IR" button on the control panel. The IR function is used to detect double

banknotes. By default, IR is automatically enabled when the device boots up. If the machine detects a double banknote, it will stop counting and emit a beep. The message "C" will appear on the display, informing you of a suspicious banknote. Remove the counterfeit banknote and press "START" to continue counting.

DD detection function

The DD detection function is turned on or off by the "DD" button on the control panel. The DD function is used to detect banknotes of different widths. With this function, the width of the first banknote will be memorized, and if a wider or narrower banknote is detected (the difference must be more than 5 mm), the machine will stop counting and emit a beep. The message "d" will appear on the display, informing you of a suspicious banknote. Remove the counterfeit banknote and press "START" to continue counting.

Total Value Calculation Function

The total value calculation function is switched on or off by the "VALUE" button on the control panel. Hold the "VALUE" button for 2 seconds to activate this function.

To use this function, the user must press the "VALUE" button to select the denomination manually. For example, for Indian rupees:

1. The first press is 1K (1000 INR),
2. The second press is 500 INR,
3. The third press is 100 INR,

4. The fourth press is 50 INR,
5. The fifth press is 20 INR,
6. The sixth press is 10 INR.

Example: If you select INR 1000 and count 20 pieces of INR 1000, the display will show a total value of INR 20,000. Note that if you select INR 1000, you must enter the exact value of INR 1000, because with a different denomination (e.g., INR 500 or INR 100), the machine will record the value as INR 1000.

In manual counting mode, the user can activate the "ADD" function to sum multiple denominations. It can also use the "VALUE" or "+"/"-" button to select the corresponding denomination. In this case, the total value will not be cleared and new banknotes will be added to the previously counted ones.

Automatic or manual counting mode

- **Automatic Mode**: The machine will automatically start counting when the banknotes are placed in the feeder.
- **Manual Mode**: Press the "START" button to start counting after placing the banknotes in the dispenser.

Batch function

The batch function can be turned on or off by pressing the "Batch" button. The set batch value will be displayed on the screen:

First press: the number of batches is 100

Second press: the number of batches is 50

Third press: the number of batches is 20

Fourth press: the number of batches is 10

Fifth press: The batch function is canceled.

You can set your own lot value using the "+" or "-" buttons to increase or decrease the number of batches. Holding down the "+" or "-" buttons for about 2 seconds will continuously increase or decrease the batch value. If the machine has a numeric keypad, you can easily enter the desired value. To disable this function, press the "BATCH" button until the indicator disappears.

In batch mode, the machine will start counting after the banknotes are loaded and stop when the number of counted banknotes reaches the set value. To repeat the counting operation, simply remove the counted banknotes from the stack. The machine will automatically start counting the next batch.

If you want to continue counting without removing the banknotes, press the "START" button.

Add function

The addition function is activated by pressing the "ADD" button (the indicator must light up). In this mode, the next banknotes placed in the dispenser will be added to the previously counted quantity. The total amount of banknotes will be displayed on the screen. To disable the function, press the "ADD" button again (the indicator must be off).

Half Banknote Detection Half

Detection is enabled by default when the machine is started. If the machine detects half of the banknote during counting, it will stop counting and emit a beep. The display will show the message "F", informing you of a suspicious banknote. Remove

this bill and press "START" to continue counting. Please note that the suspect banknote will be added to the counting result.

Banknote String Detection

Banknote String Detection is enabled by default when the machine is started. If the machine detects a string of banknotes during counting, it will stop counting and beep. The display will show the message "d", informing you of a suspicious banknote. Remove this bill and press "START" to continue counting. Please note that the suspect banknote will be added to the counting result.

Feeder plate adjustment:

If the banknote counting is unstable or inaccurate, the problem can be solved by adjusting the screw that adjusts the height of the feeder and the gap between the stop roller and the rubber roller. Put the banknote into the feeder and check if the machine runs smoothly.

- **Clockwise rotation**: reduces the gap to add friction (tight).
- **Counterclockwise rotation**: increases the gap by reducing friction (loose).





Error codes and solutions:

The display can show error codes when counting, which means there is a problem with the machine. Use the table below to find the cause and solution to the problem.

Code	Error description	Handling Method (Recommendation)
A	Counterfeit banknote detected by UV	Remove the counterfeit banknote from the pile, press "START" to continue.
B	Counterfeit banknote detected by MG	Remove the counterfeit banknote from the pile, press "START" to continue.
C	Counterfeit banknote detected by IR	Remove the counterfeit banknote from the pile, press "START" to continue.
D	A series of banknotes or different width of a banknote	Remove the counterfeit banknote from the pile, press "START" to continue.
F	Half note detected	Remove the counterfeit banknote from the pile, press "START" to continue.
CE1	UV sensor problem	Clean the sensor or replace it.
CE2	Problem with sensor code or motor	Replace the sensor or motor.
CE3	Problem with the right count sensor	Clean the sensor or replace it.
CE4	Problem with the left count sensor	Clean the sensor or replace it.
CE5	Feeder sensor problem	Clean the sensor or replace it.

CE6	MG1 Error	Clean the sensor or replace it.
CE7	MG sensor problem	Replace the MG sensor.
CE8	Problem with the sensor applying	Clean the sensor or replace it.

General: Most of the above problems can be caused by dust or dirt inside the machine. It is recommended to clean the machine regularly.

Common problems and solutions:

Before attempting the repair, check the following issues:
NOTE: Make sure to turn off the power and disconnect the plug before repairing.

Doesn't work

- Check that the plug is firmly inserted into the socket.
- Check that the power supply or fuse is not burned.

Won't start or stops normally

- Feed sensor covered in dust? Clear.
- Feed sensor not connected to electrical circuit? Check and connect.
- The motor transmission belt is not properly tensioned, too loose or too tight? Adjust accordingly.

Counting error

- Incorrect feeder position? Adjust properly.
- Counting sensor covered in dust? Clear.
- Too worn rubbers and feed wheel? Replace.

HDWR Hardware for business
hdwrglobal.com

False Alarm

- Fluorescent sensitivity set incorrectly? Adjust properly.
- Sensor covered in dust? Clear.
- Worn-out fluorescent LED? Replace.

Machine Settings:

UV sensitivity adjustment

- **UV Sensitivity Adjustment**: Press the "SET" button for about 1.5 seconds, the display will show "A---". Then press "+" or "-" to increase or decrease the parameter.
  If the parameter is higher, the UV sensitivity will be lower. If the parameter is lower, the UV sensitivity will be higher.

MG sensitivity adjustment (magnetic detection)

Adjusting the INR MG sensitivity: Press the "SET" button for about 1.5 seconds, the display will show "A---". Then press "SET" until "b1-2" appears, then use "+" or "-" to increase or decrease the parameter. If the parameter is higher, the sensitivity of the MG will be lower. If the parameter is lower, the sensitivity of the MG will be higher.

USD MG Sensitivity Adjustment: Press "SET" for about 1.5 seconds, the display will show "A---". Then press "SET" until "b2-2" is displayed, then use "+" or "-" to adjust the parameter. A higher parameter means a lower MG sensitivity, and a lower parameter means a higher MG sensitivity.

EUR MG sensitivity adjustment: Press "SET" for about 1.5 seconds, the display will show "A---". Continue pressing "SET" until "b3-2" is displayed. Then press "+" or "-" to adjust the MG sensitivity.

NOTE: When the settings are complete, place your finger on the feeder sensor or run the rollers to save the settings.

Missing or not taking into account the counterfeit banknote
Turn on the machine, then press "DD" and "BATCH" at the same time. The display will show "H-C00". Press "SET" twice and the display will show "C02". Press "-" and select "1-0", then slide your finger on the feeder sensor. The rollers will start working and the settings will be saved, the counting will not take into account counterfeit banknotes.

Turning the voice function on/off

- **Method One**: Press "START/VOICE" if the display shows "ON", the voice function is active. If the display shows "OFF", the voice function is disabled.
- **Method Two**: Press and hold "START/VOICE" to turn off the voice function.

Factory reset
Press "DD" and "BATCH" at the same time, then hold them for about 2 seconds. When "dEFAU" appears on the display, it indicates a factory reset.

Maintenance:

- **Do not use** the appliance in areas with high temperature or humidity, as this may cause refusal to work or incorrect counting of banknotes.

HDWR Hardware for business
hdwrglobal.com

- **If the appliance is not used for a long period of time**, unplug the power plug from the socket.
- **Do not use the appliance** in direct sunlight.
- **Clean the appliance** regularly after turning off and disconnecting the power supply.
- **Do not use the appliance** in areas exposed to water or other liquids.
- **Unplug the appliance** from the outlet before cleaning. Do not use chemicals or cleaning sprays. Use a damp cloth.