

Operation Manual

AVPOS DTC-100

AVPos



Banknote Counter

WARNING

- Before turning on the power, please make sure that there are no objects obstructing the operation of the rollers and wheels.
- Do not place or operate the machine under strong light, since it may cause inaccurate counting and detection.
- Do not place or operate the machine in a damp environment .this will cause leakages of electricity and a risk of electric shocks .
- ALWAYS TURN OFF THE POWER AND REMOVE THE POWER CABLE WHEN CLEANING OR WORKING INSIDE THE MACHINE .
- Banknotes that have been washed may reflect the UV light and may cause false alarms.
- Dirty banknotes may affect the infrared absorption characteristics and cause false alarms.

Thank you for choosing this AVPOS currency counter. Before using the machine, read this manual to familiar with the functions and operations of the machine.

1. OVERVIEW

1.1 FRONT SIDE



1.Hopper

2.Keys

3.Display

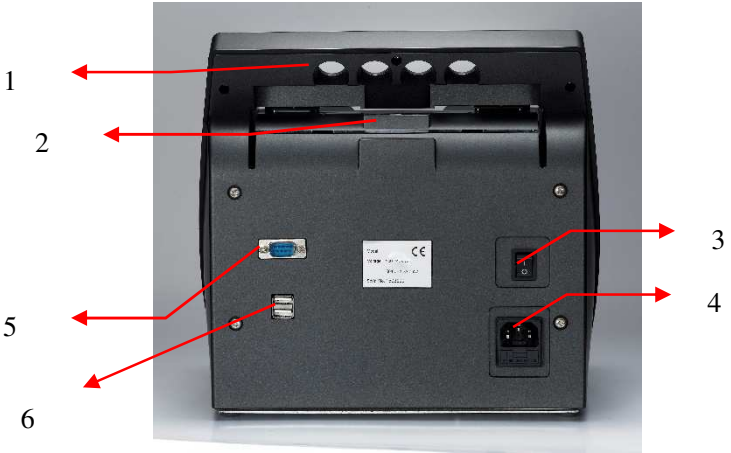
4. Stacker

5. Auxiliary Hopper Plate

6. Stacker Vanes

	sensor	
E1D	Suspected denomination was detected by color sensor or 3D or CIS sensor	

1.2 BACK SIDE



- 1.Handle
- 2.Adjustment knob
- 3.Power switch
- 4 .Power inset
- 5.Serial Port
- 6.Upgrade Port

1.3 CONTROL PANEL AND FUNCTIONS



5. TECHNICAL SPECIFICATIONS

- AMBIENCE TEMPERATURE: 0C-40°C
- AMBIENCE HUMIDITY: 20%-80%
- FEED SYSTEM: ROLLER FRICTION SYSTEM
- HOPPER CAPACITY : 400NOTES
- STACKER CAPACITY: 200NOTES
- SIZE OF COUNTABLE NOTE: 50*90-110*185(MM)
- THCIKNES OF COUNTABLE: 0.05-0.2(MM)
- BATCH NUMBER DISPLAY: THREE DIGITS(LCD)
- COUNTING NUMBER DISPLAY: SEVEN DIGITS(LCD)
- MESSAGE DISPLAY: THREE DIGITS(LCD)
- POWER SOURCE : AC110V-220V,50-60HZ
- POWER CONSUMPTION: 55W
- DIMENSIONS: 272MM*235MM*239MM
- WEIGHT: 5.5KG
- WIDTH DETECTION SENSITIVITY: 3/4/5MM
- COUNTING SPEED: 800 NOTES/MIN-1500 NOTES/MIN

4. ERROR CODE

Error Code	Reason	Solutions
Not note pass error	Un-correct placing of bills	1. Pick up the bills in the hopper. 2. Press START key. 3. Place the bills in the hopper correctly.
Eye error	Counting sensor error	1. Press Start key and re-count the bills. 2. If there are bills jammed remove jammed bills and re-count the bills. 3. If E1 occurred continually please clean the counting sensor.
Stacker have note	Stack sensor error	1. Take away the bills in the stack and press the START key. 2. If E2 occurred continually please clean the stack sensor.
Hopper have note	Hopper sensor error	1. Take away bills in the hopper and press START key. 2. If E3 occurred continually please clean the hopper sensor.
Half of the note error	Bill with wrong length	1. Check the suspicious bill. 2. Press Start key. 3. Re-count the bills.
Different DD error	Bill has different width with the first one	1. Check the suspicious bill. 2. Press Start key. 3. Re-count the bills.
Double note error	Bill with wrong thickness or double through out together.	1. Check the suspicious bill. 2. Press Start key and re-count the bills. 3. If double bills through out continually please adjust the gap of hopper by the knob.
Two note too close error	Bills through out in chain.	1. Press RESTART key. 2. Pick up the bills from the Stacker and re-count the bills.
UV abnormal error	Suspected bill was detected by UV sensor	1. Pick up the last bill from the stacker and check it. 2. Press RESTART key. 3. Recount the suspected bill. If this error happens continually, please confirm the machine is fit for your currency or contact with the technician.
MG abnormal error	Suspected bills was detected by MG sensor	
MT abnormal error	Suspected bills was detected by MT sensor	
IR abnormal error	Suspected bills was detected by IR	

START/CLEAR

Press the START key to initiate counting or to clear error

SET

Press SET key to change 4, 5, 6, 7, 8, 9, 0 second functions,

Press SET long time to enter main menu pattern

0~9

Press the number keys to set the batch number. The batch number is 0~999. 0 means batch function closed. If the batch number is 10, the machine will stop after it counted 10 bills. Pick up the 10 bills the counting will continue. It will stop for every 10 bills.

Press Setting key shows on display, operate below keys

CFD

Press **4/CFD** key to turn on or turn off all the detect functions.
Valid only in Mode I

DEN

Press **5/DEN** key to turn on the DEN functions.
Valid only in Mode I

Speed

Press **6/Speed** key to turn on counting speed

Report

Press **/Report** key to check the total value of notes and sheets of every denomination.

MNL

Press **MNL** key to select Auto start or Manual start.

CUR

Press the **CUR** key to switch currency

Mode

Press **Mode** key to select the work Mode.
Mode I: sheet count mode(count the number of the banknotes).
Mode II: value count mode(count the total value of mixed banknotes).
Mode III: Sort mode(Sort difference denomination bills).



Press **ADD** key to enter ADD mode and **ADD** will be displayed on the LCD. Press again the function will be closed. If ADD is on, the counting result will be accumulated. In Mode I with batch function on, only the batch number accumulated.

› SPEED 1	800
SPEED 2	1000
SPEED 3	1500

Select the counting speed.(How many sheets per minute)
SPEED 3 only valid in MODE I.

SET press SET key for a long time to enter main menu

› CFD	SENSOR
3D	SENSOR
DEFAULT	
SPEED	
TESTMODE	
DOWNLOAD	
PRINT	

Enter menu , Indicate **↑ ↓** to press SET to select below functions

CFD SENSOR: Detect function
3D SENSOR: Density, width and 3D.
DEFAULT: Default setting.
SPEED: Counting speed
TESTMODE: Test parameter of the machine.
DOWNLOAD: Down load program.
PRINT: Print the counting result.(For machine with printer)

TESTMODE and DOWNLOAD for machines with 3D sensor.

› 1 ENABLE TESTMODE
2 DISABLE TESTMODE

This function is for test the status of the machine. Please use this function with the help of technician.
(For machines with 3D sensor only)

DOWNLOAD

› 1 DOWNLOAD MAIN MCU
2 DOWNLOAD COLOR MCU
3 DOWNLOAD 3D MCU

This function is for update the software. Please use this function with the help of technician.
(For machines with 3D sensor only)

2. DAILY CARE

Please turn off the machine and remove the power cord before clearing.

Clear the hopper sensor, stack sensor, counting sensors with a soft brush periodically.

Clean the shell, the hopper, the stacker with soft dry cloth. If you had to use cleanser please test in the bottom or other covert area of the shell before use it. Be careful, don't use too much cleaner(dry cloth with a little cleaner).The cleaner can not used for sensors.

3. Attention

Adjust the Auxiliary Hopper Plate to fitting width for the bills before counting which can make the machine working smoothly. 1 CM wider than the bills is enough.



CFD SENSOR

› UV	2
MG	2
MT	2
IR	1

Enter menu , Indicate **↑ ↓** to press SET to select below functions

UV : 0~3 MG:0~4 MT : 0~4 IR : 0~1
0 means the function was turned off.
Higher level means more strict. Default setting is recommended.

3D SENSOR

› DEN	2
DD	2
3D	2

Enter menu , Indicate **↑ ↓** to press SET to select below functions

DEN : 0~3 DD : 0~3
3D : 0~3(Valid for machines with 3D sensor)
0 means the function was turned off.
Higher level means more strict. Default setting is recommended.

DEFAULT

› ENABLE
DISABLE

Select the ENABLE can return to default setting.
Select the DISABLE to disable the default setting.

SPEED