



# XC100

Note Dispenser  
User Guide



Thank you for choosing TOP VME .





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# 1. Introduction

## 1-1. Overview

XC100 Bill Dispenser is a machine that counts the number of banknotes, easy to set the amount of banknotes for accurate output. Correct the function of paper thickness, can be applied to all banknote currencies, make it easier for you to count. Large-capacity cash box can put approx.700 bills (Depending on the thickness of the paper ).

## 1-2. Features

- Large-capacity cash box
- Double display subtitles
- Speed Extremely fast

## 1-3. Precautions

### 1. Bill test environment

- a. Temperature : 0° C~50° C
- b. Voltage : 24 V DC
- c. Do not continuously issue more than 3,000 notes, avoid overloading the motor and overheating

2. Confirm before use the value of L\_IR and R\_IR between 100~160, and the values cannot differ by more than 10.

3. Check Dip switch whether there is a corresponding currency.

4. Use more than 60% new bills place the billboard in a neat position.

5. Cannot be clicked without white card status Calibration IR or long press S2 button.



## 2. Specifications

### 2-1. General

Speed	10 pcs / second
Dispensing Type	Single - Continuous
Interface	Pulse or RS232
Installation	Indoor

### 2-2. Electronic

Power Source	24V DC
Power Consumption	Standby : 0.06A / 1.5W
	Operation Current : 1.20A / 29W
	Maximum : 3.40A / 82W
Temperature Range	Operating Temperature : 0° C~60° C
	Storage Temperature : -10° C~70° C
	Humidity : 20%~70%RH (no condensation)

### 2-3. Machine

Weight	Approx. 5 KG
Outline Dimension	220 x 150 x 200 mm
Bill Dimension	100~170 mm / <80 mm
Box Capacity	Approx. 700 bills
Display	Four digital display

## 3. Packing List

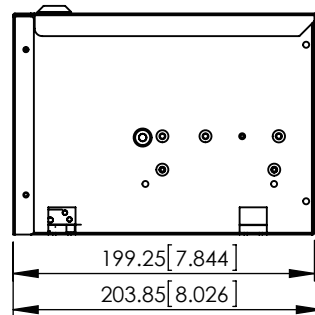
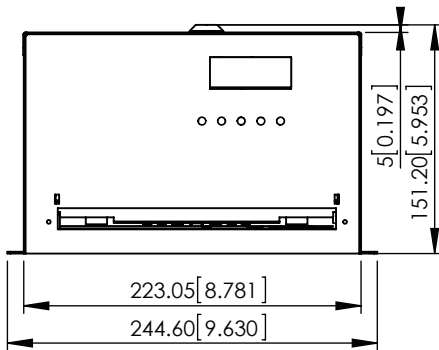
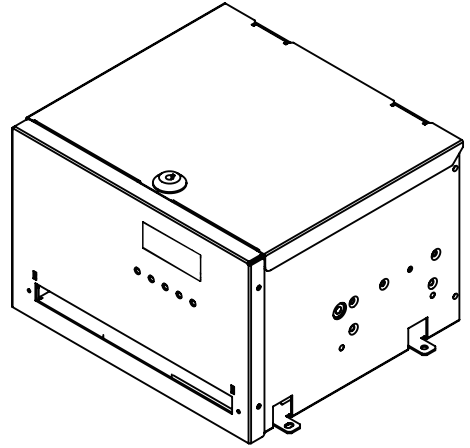
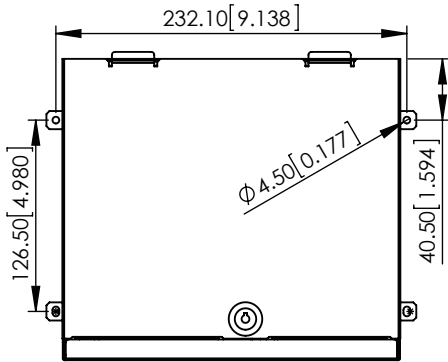
Main	XC100 Note Display
Accessories	Installation guide
	Harness
	two Keys
	DIP Switch Setting Guide





# 4. Dimension

Unit : mm [ inch ]

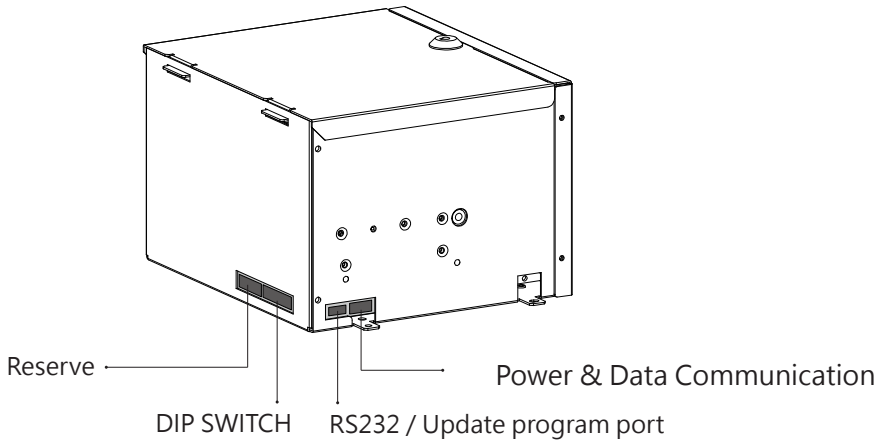




# 5. Installation

## 5-1. Harness Application

Interface	Voltage	Usage	Harness NO.	Page
RS232		Data Communication	WEL-R7U06	5
	24V DC	Power & Data Communication	WEL-N0002-1	6
	24V DC	Power	2WIR-DA-0054-A0	7

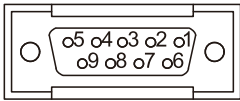
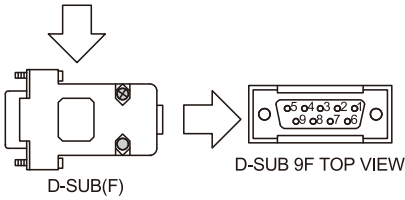
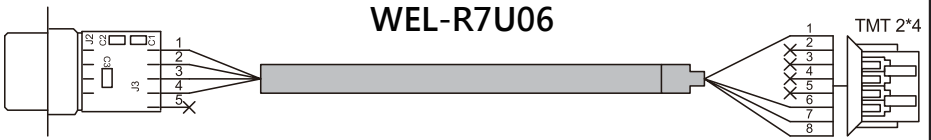


NOTE : Update program port

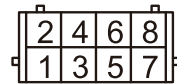
Please refer to the G-BOX Operation manual for a guide step by step how to download or update using the G-Box programmer. You can obtain it from your local agent or contact us at : [service@topvme.com.tw](mailto:service@topvme.com.tw)



# HARNESS FORMAT



PIN NO	PIN DEFINE
PIN2	TXD
PIN3	RXD
PIN5	GND



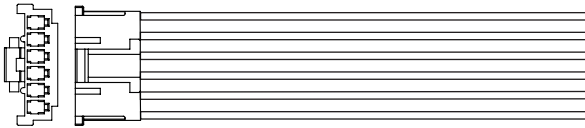
TMT 2\*4 BACK VIEW

PIN NO	COLOR	PIN DEFINE
PIN1	BLUE	GND
PIN6	WHITE	VCC
PIN7	BLACK	RXD
PIN8	PURPLE	TXD

**Topvme**

# HARNESS FORMAT

WEL-N0002-1



PIN NO	COLOR	PIN DEFINE
PIN1	BLACK	VEND-
PIN2	BROWN	VEND+
PIN3	RED	INHIBIT-
PIN4	ORANGE	INHIBIT+
PIN5	YELLOW	GND
PIN6	GREEN	+24V DC

*Topvme*



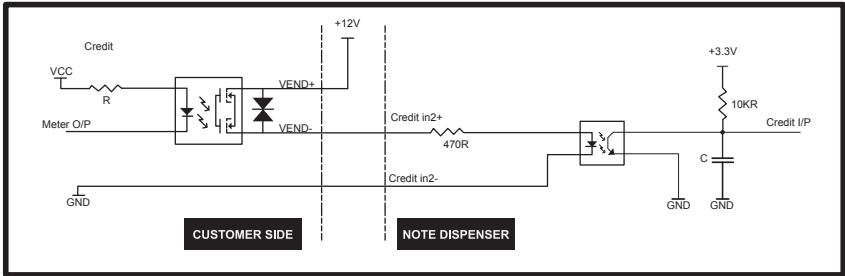
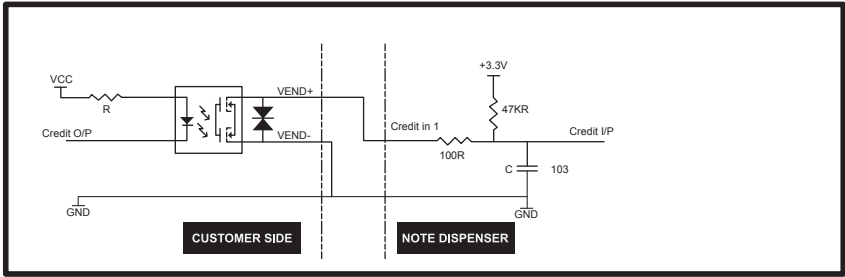
# HARNESS FORMAT

2WIR-DA-0054-A0



PIN NO	COLOR	PIN DEFINE	PIN NO	COLOR	PIN DEFINE
PIN6	RED	+24V DC	PIN1	RED	+24V DC
PIN5	BLACK	GND	PIN2	BLACK	GND

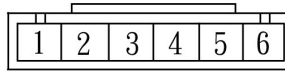
**Topvme**





RS232 INTERFACE DEFINE

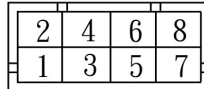
Power's pins



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PIN1	PIN2	PIN3	PIN4	PIN5	PIN6
VEND-	VEND+	N/C	N/C	GND	+24V

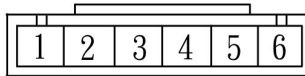
RS232 PINS



PIN1	PIN2	PIN3	PIN4	PIN5	PIN6	PIN7	PIN8
GND	N/C	N/C	N/C	N/C	VCC	RX	TX

PULSE INTERFACE DEFINE

Power's pins define

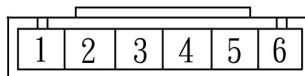


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PIN1	PIN2	PIN3	PIN4	PIN5	PIN6
VEND-	VEND+	CREDIT IN2-	CREDIT IN2+	GND	+24V

HOPPER INTERFACE DEFINF

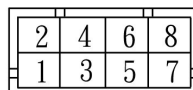
Power's pins define



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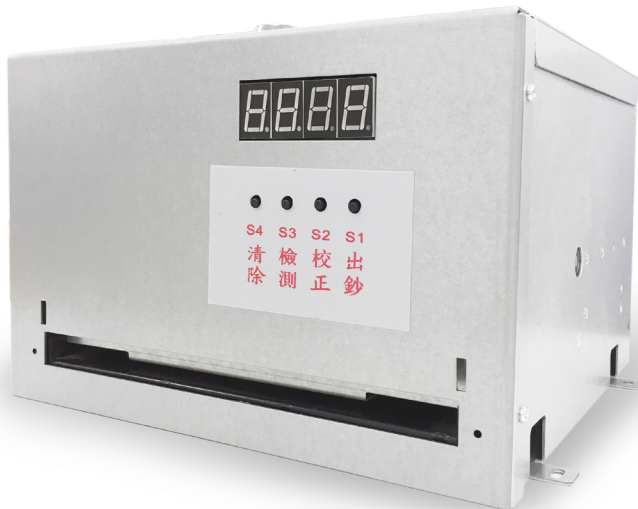
PIN1	PIN2	PIN3	PIN4	PIN5	PIN6
HOPPER SW -	HOPPER SW +	HOPPER SSR -	HOPPER SSR +	GND	+24V

PULSE pins define



PIN1	PIN2	PIN3	PIN4	PIN5	PIN6	PIN7	PIN8
GND	CERDIT IN 1	N/C	N/C	N/C	VCC	CLEAR ERROR	ERROR OUT

## 5-2. Button Application



### S1 Button function :

- Give Bills
- The number of withdrawals per time is controlled by DIP SW1 and DIP SW2. ( Refer-DIP SWITCH SETTING)

### S2 Button Function :

Long press for 3 seconds, automatic correction.DIP SW10 Control correction mode. ( Refer DIP SWITCH SETTING)

### S3 Button Function :

- Clickj to detect the bill dispenser, display panel normal and IR normal.
- Long press for 3 seconds, set password.

### S4 Button Function :

- Short press to clear the error message.
- Long press for 3 seconds, clear Spit out / cumulative number.





### 5-3. Password Release & Setting Method

Machine password is six digits, Before using the button, must first remove the password. Default setting 123434 .

Password release :

In order S1-S2-S3-S4-S3-S4. Release success, RS232 display "- - - - " · PULSE display " \_ \_ \_ \_ " . No button within 10 seconds, need to press the password again.

Password setting :

In the password release state, Long press S3 approx. 3 seconds Display Setp, Enter the password setting mode.Enter 6 digits in order, display "- - - - ", successfully change the password.

Note: Forget your password, use the password too. (Get Password) retrieve password (RS232).

### 5-4. Operation Process Introduction

5-4-1. Standby mode (Password release status)

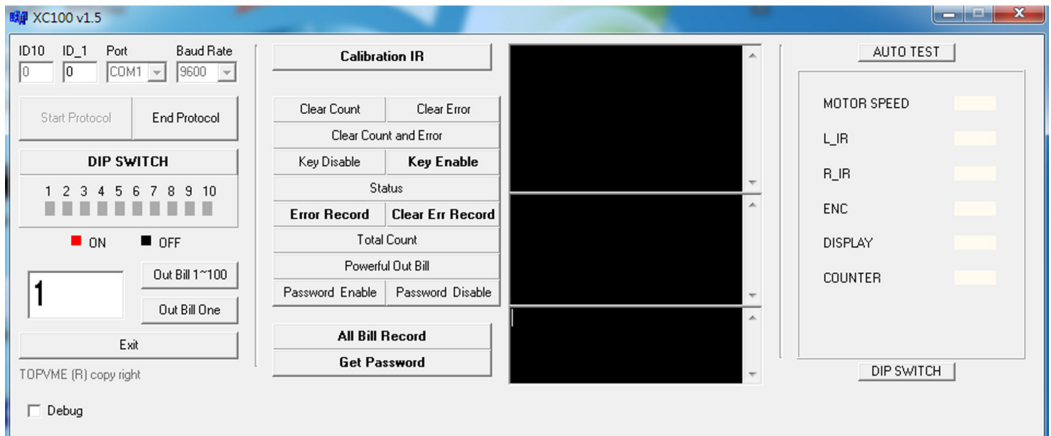
- A. After powering on, display accumulated value is standby, It is a state in which bill can be issued.
- B. Password release status, press S1 button, the number set by the DIP Switch will start to be billed., and accumulate it on the display.
- C. Long press S4 button 3 seconds, will clear the cumulative number to zero.
- D. PC control tool can inhibit button, also can release Inhibit button.
- E. If something goes wrong, the fault message will be displayed on the display.
- F. If the count exceeds 9999, will count back from 0 again.

5-4-2. Prepare before starting to issue notes ( Automatic correction )  
 Our company has corrected the firmware, No need to do white card calibration again to change the currency value, DIP SW adjusted to appropriate. If you re-program the program, please do White Card Calibration or Learning calibration first.

A. White Card Calibration: Before White Card Calibration Please adjust the correction reference first. Adjusted by DIP SW4 and DIP SW5 and DIP SW6. Put the white card provided by the supplier into the money bin, DIP SW10 adjust to ON. Long press S2 button 5 seconds, white card automatic spit out,display left and right sensor correction value.

B. Learning Calibration : Put the bills to be deposited into the money bin. DIP SW10 adjusted to OFF. Press and hold S2 for 5 seconds, and the coin paper will be automatically ejected. If the learning is successful, "GOOD" will be displayed, and if the learning fails, "BAD" will be displayed. If you fail, please try again.

### 5-5. PC Control Tool Interface Description (RS232)





General Operation	
Software operation	Description
ID_1	Set the communication position between PC and machine
ID 10	Reserved
Port	Set COM PORT
Baud	Set BOW
Start Protocol	Start communication
End Protocol	Interrupt communication
DIP Switch	Display firmware version and Dip switch
Out Bill 1~100	One instruction to set the number of banknotes at a time
Out Bill One	One order for issuing a banknote at a time, the number of the set out.
EXIT	Exit PC control tool
Calibration IR	This feature is not available
Clear Error	Clear the error message on the display
Clear Count	Counter zero
Clear Count and Error	Clear the error message on the counter and the display simultaneously.
Key Disable	Set button inhibit
Key Enable	Release button inhibit
Status	Get machine status
Error Record	Read machine cumulative error record
Clear Err Record	Clear machine cumulative error record
Total Count	Read accumulated dispenser quantity
Powerful Out Bill	Forced out the bill, malfunction or bill jammed to use.
Password Enable	Set a password to use the button
Password Disable	Set no password to use the button
All Bill Record	Read machine all history dispenser quantity
Get Password	Get button Password

AUTO TEST Automatic Detection Bill Dispenser	
Mark	Description
MOTOR SPEED	Motor speed
L_IR	Left sensor value
R_IR	Right sensor value
ENC	Grating
DISPLAY	monitor
COUNTER	counter

-The middle black part is RS232 communication display.

## 5-6. Protocol

RS232 Specification	
Baud Rate	9600
Parity Check	None
Data Length	8
Stop Bit	1

- a. Bill Dispenser Received instructions from the PC, will return the status to the PC within 50 milliseconds
- b. Normal status : ACK 0x06
- c. Fault status : NCK 0x0a (Check code failure, Data value failure )
- d. The host sends an instruction to control the operation of the bill dispenser, if any abnormal state occurs, including failure, the bill dispenser returns its status to the host.

### 5-6-1. USART Format

BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	CMD	DATA1	DATA2	DATA3	DATA4	CS	ETX

1. STX : Start code 0x02
2. ID\_10 : Bill dispenser ID number 10th digit, Default is " 0" (0x30)
3. ID\_1 : Bill dispenser ID number 1st digit · " 0" ~ " 9" (0x30~0x39)
4. CMD : instruction ( B, E, I, U, K, S, R, C, T, A, D, P )
5. DATA 1 ~4 : Data buffer
6. CS : Check code (The last 2 codes from the sum of BYTE0 to BYTE7)
7. ETX : End code (0x03)

### 5-6-2. Cash out Instruction

Host to Bill dispenser 'B' → Response : ACK									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	'B'	'0'	Hundreds digit	Ten digits	Digits	CS	ETX

Bill dispenser to host 'b'									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	'b'	'0'	Hundreds digit	Ten digits	Digits	CS	ETX



### 5-6-3. Clear Accumulated Number And Fault Message

Host to Bill dispenser ' I ' → Response : ACK									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' I '	' 0 '	' 0 '	' 0 '	' 1 '	CS	ETX

BYTE7: ' 1 ' Clear accumulation / Cash is dispensed

BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' I '	' 0 '	' 0 '	' 0 '	' 2 '	CS	ETX

BYTE7: ' 2 ' Clear fault information

BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' I '	' 0 '	' 0 '	' 0 '	' 3 '	CS	ETX

BYTE7: ' 3 ' Clear fault information and count

### 5-6-4. Inhibit Bill Dispenser press

Host to Bill dispenser ' K ' → Response : ACK									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' K '	' 1 '	' 0 '	' 1 '	' 0 '	CS	ETX

BYTE 4 、 BYTE 6 : ' 1 ' Inhibit button

BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' K '	' 0 '	' 0 '	' 0 '	' 0 '	CS	ETX

BYTE 4 、 BYTE 6 : ' 0 ' Release Inhibit button

### 5-6-5. Clear Error Record

Host to Bill dispenser ' U ' → Response : ACK									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' U '	' 0 '	' 0 '	' 0 '	' 0 '	CS	ETX

### 5-6-6. Check The Status Of The Banknote

Host to Bill dispenser ' S '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' S '	' 0 '	' 0 '	' 0 '	' 0 '	CS	ETX

Bill dispenser to Host ' s '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' s '	' val1 '	' val2 '	' 0 ',' 1 '	' 0 ',' 1 '	CS	ETX

#### Note :

1. val1 : 'w' --> Busy , 'r' --> Standby , 'e' --> Malfunction (val2 : error code ), 't' --> Test mode
2. BYTE6 : Button S1 Locked or Unlock ('0': Unlock , '1': Locked )
3. BYTE7 : Button S4 Locked or Unlock ('0': Unlock , '1': Locked )

### 5-6-7. Get Error Message Record

Host to dispenser ' R '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' R '	' 0 '	' 0 '	' 0 '	' 0 '	CS	ETX

Dispenser to Host ' r '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' r '	ERROE Item	counter	' 0 '	' 0 '	CS	ETX

### 5-6-8. Check Out The Billing Item

Host to Dispenser ' C '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' C '	' 0 '	' 0 '	' 0 '	' 0 '	CS	ETX

Dispenser to Host ' c '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' c '	' 0 '	Hundreds digit	Ten digits	Digits	CS	ETX



### 5-6-9. Bill Dispenser Total Number Of Banknotes

Host to Dispenser ' t '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' t '	' 0 '	' 0 '	' 0 '	' 0 '	CS	ETX

Dispenser to Host ' y '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' y '	' 0 '	' 0 '	hundred thousand digits	Ten thousand digits	CS	ETX

Dispenser to Host ' z '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' z '	'Thousand digits'	'Hundred digits'	'Ten digits'	'One digits'	CS	ETX

### 5-6-10. Get Button Password

Host to Dispenser ' P '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' P '	' 0 '	' 0 '	' 0 '	' 0 '	CS	ETX

Dispenser to Host ' p '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' p '	' 0 '	1 <sup>th</sup>	2 <sup>th</sup>	3 <sup>th</sup>	CS	ETX

BYTE 5 : First digit of password

BYTE 6 : Second digit of password

BYTE 7 : Third digit of password

Dispenser to Host ' w '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	' w '	' 0 '	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	CS	ETX

BYTE 5 : Fourth digit of password

BYTE 6 : Fifth digit of password

BYTE 7 : Sixth digit of the password



### 5-6-11. Get DIP SWITCH position

Host to Dispenser ' D '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	'D'	'0'	'0'	'0'	'0'	CS	ETX

Dispenser to Host ' d '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	'd'	DIP SW9	DIP SW1~8	'0'	'0'	CS	ETX

### 5-6-12. Bill DisPenser Reply Error Code

Dispenser to Host ' E '									
BYTE0	BYTE1	BYTE2	BYTE3	BYTE4	BYTE5	BYTE6	BYTE7	BYTE8	BYTE9
STX	ID_10	ID_1	'E'	val	'0'	'0'	'0'	CS	ETX

val : Please refer to 7. Troubleshooting





### 5-6-13. DIP SW Setting

#### RS232 INTERFACE DEFINE - DIP SW

Function		1	2	3	4	5	6	7	8	9	10
Speed slow		ON									
Speed fast		OFF									
*1 pcs			ON	ON							
5pcs			OFF	ON							
10pcs			ON	OFF							
20pcs			OFF	OFF							
*ID_1	0							ON	ON	ON	
ID_1	1							OFF	ON	ON	
ID_1	2							ON	OFF	ON	
ID_1	3							OFF	OFF	ON	
ID_1	4							ON	ON	OFF	
ID_1	5							OFF	ON	OFF	
ID_1	6							ON	OFF	OFF	
ID_1	7							OFF	OFF	OFF	
** White Card Calibration											ON
Learning white Card											OFF

#### PULSE INTERFACE DEFINE - DIP SW

Function		1	2	3	4	5	6	7	8	9	10
1:1	1 Pulse 1 out							ON	ON	ON	
2:1	2 Pulse 1 out							OFF	ON	ON	
3:1	3 Pulse 1 out							ON	OFF	ON	
4:1	4 Pulse 1 out							OFF	OFF	ON	
5:1	5 Pulse 1 out							ON	ON	OFF	
10:1	10 Pulse 1 out							OFF	ON	OFF	
20:1	20 Pulse 1 out							ON	OFF	OFF	
50:1	50 Pulse 1 out							OFF	ON	OFF	

#### DIP SW National Currency Recommended Adjustment Position

Function		Currency		DIP SW4	DIP SW5	DIP SW6
Bill Transmittance	1	Learning correction mode		ON	ON	ON
	2	Single currency setting		OFF	ON	ON
	3	For various currency settings, please refer to the setting drawings		ON	OFF	ON
	4			OFF	OFF	ON
	5			ON	ON	OFF
	6			OFF	ON	OFF
	7			ON	OFF	OFF
	8			OFF	OFF	OFF

## 6. Banknote Output Restriction Function

When the inventory quantity is lower than or equal to the minimum inventory limit, the device will perform an error action (declaring that there is no banknote).

Setting operation:

### (1) Enter setting mode

Press and hold the S4 button first, and then press the S3 button for 3 seconds to enter the banknote discharge limit setting mode.

When entering the banknote output restriction setting mode, the count value on the panel will be reset to zero.

### (2) Setting

The front panel will display "HxLy": the default is "H5L5".

'Hx' : indicates the number of banknotes putting. 'x' is set by S3, ranging from 1 to 10 (A), and the unit is 100 (sheets).

'Ly': indicates the minimum inventory limit quantity. 'y' is set by S1, ranging from 1 to 10 (A), and the unit is 10 (sheets).

### (3) Exit setting mode

1. In the same way as entering, press and hold the S4 button first, and then press the S3 button for 3 seconds to exit the banknote output limit setting mode. At this time, the currently set parameter values will be stored.

2. If no operation is performed for more than 20 seconds, it will automatically exit the setting mode, and the currently set parameter values will not be stored.



#### (4) Release the error status

When the banknote output limit is triggered, the method of clearing is to clear the current number of banknotes issued, and just long press S4 to clear it.

Actual screen :



Trigger mechanism :

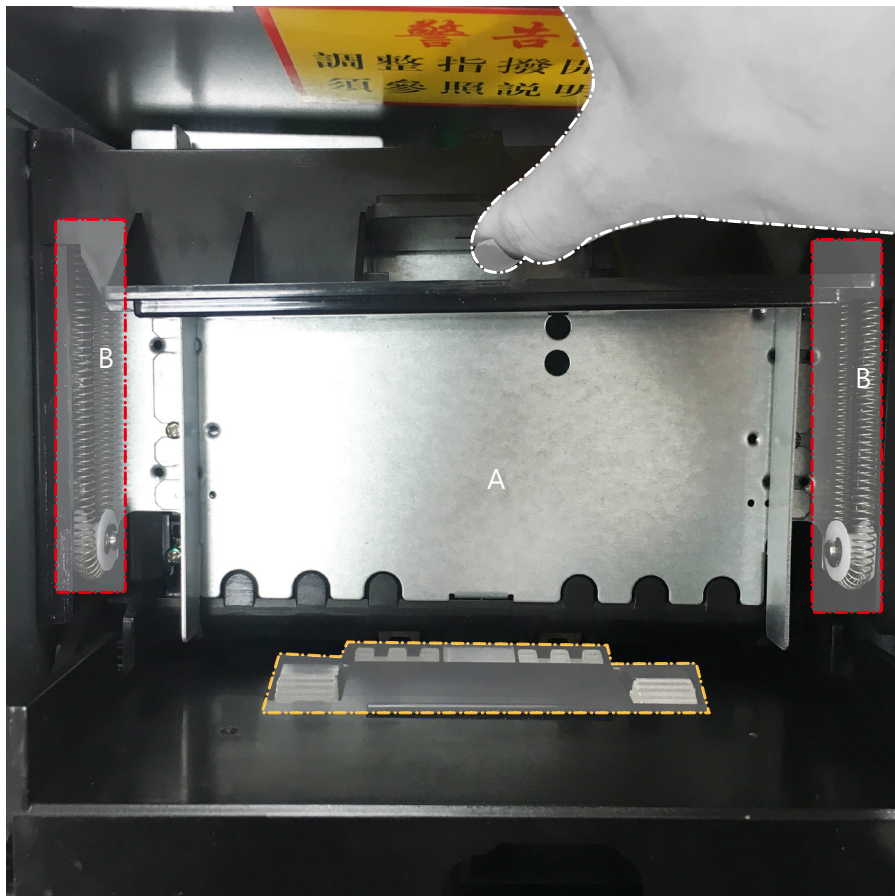
H5 indicates that the number of banknotes in stock is at least  $5 * 100 = 500$ , and L5 indicates that the minimum number of banknotes in stock is  $5 * 10 = 50$ . In the state of no banknote output and no error, when the remaining banknotes are equal to or lower than the minimum inventory ( $(500 - \text{number of output banknotes}) \leq 50$ ) to report an error.

If the inventory before outputting the banknote is greater than the minimum limit inventory, but after outputting the banknote, it will be smaller than the minimum limit inventory. At this time, the error will be reported only after the banknote is output.

## 7. Maintenance

### 7-1. Clean inside and add lubricant

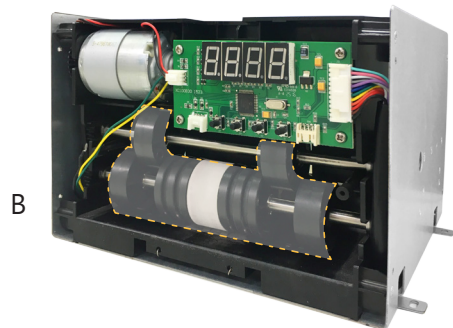
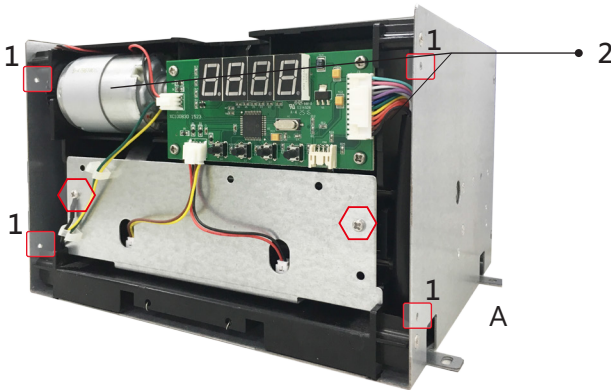
- 1.Clean with a soft brush draw out port and the junction of the banknote and the roller (A), prevent the sensor from being blocked by dust.
- 2.Regularly press the billboard and the rail (B) add oil and keep it dry.





## 7-2. Matters for cleaning the inner rollers

1. Remove the screws (marked with 4 in the box) and pull apart the wire. (A)
2. Remove the screws on the lower sheet metal (two hexagonal frames are marked). (A)
3. Use an air gun or a soft brush to remove dust and paper dust from the roller. (B)



	<b>Maintenance Notice</b>	
	<i>(Any improper maintenance will result invalid warranty.)</i>	
	<b>Recommended</b>	Mild, non-abrasive, a small amount of soapy water.
	<b>DO NOT USE</b>	Organic solvent, Alcohol, Volatile liquid.

## 8. Troubleshooting

Error Code	Reason	Processing method
o	Not enough bills.	Please add your own bills.
7	Double Cash out ( two bills or too old ).	Adjust wheel set clearance screw, turn clockwise
A	Motor error	SENSOR or motor error, please inform TOP.
b	Left IR electric eye start error.	Left IR electric eye start error, please inform TOP.
C	Right IR electric eye start error.	Right IR electric eye start error, please inform TOP.
D	Left IR electric eye start error.	Need to ne re white card calibration, please inform TOP.
F	Right IR electric eye start error.	Need to ne re white card calibration, please inform TOP.
G	The values cannot differ by more than 10 error.	Need to ne re white card calibration, please inform TOP.
H	Automatic correction error.	Need to ne re white card calibration, please inform TOP.
g	Sensor error	Please inform TOP.
r	Right sensor have foreign objects	Clean with a soft brush cash withdrawal.
L	Left sensor have foreign objects	Clean with a soft brush cash withdrawal.

### Easy troubleshooting

Cash out not smooth	May be stuck in the billboard.
	Palin loose under the pedestal.
	Change bills are not adjusted DIP SW or need white card Calibration.
Bill jammed	DIP SW no adjusted to positioning
	The bill is too old.
	Change bills are not adjusted DIP SW or need white card calibration.
Banknote tilt	The left and right sides of the pin wheel are uneven · adjust wheel set clearance screw.
Button not available	The button is locked by the PC control tool.
Motor no response	Motor Error
View "Automatic detection bill dispenser" value or abnormal action	



**If the error can not be solved after corrective actions or happen again, please contact TOP for technical support.**



Top Vending Machine Electronics Co., Ltd.

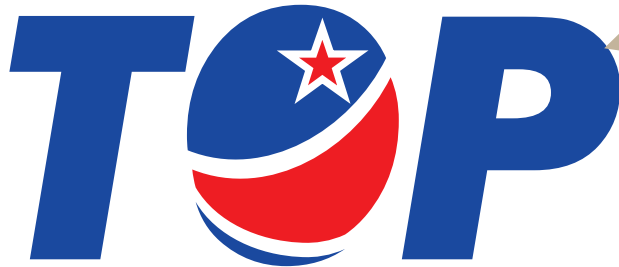
NO.11, Anzhong St., Luzhu Dist., Taoyuan City338, Taiwan, (R.O.C.)

Phone : +886-3-3115969 · Fax : +886-3-3115970

E-mail : [sales@topvme.com.tw](mailto:sales@topvme.com.tw)

Website : [www.topvme.com](http://www.topvme.com)

NO. 4007-XC10000001



Top Vending Machine Electronics Co., Ltd.



[www.topvme.com](http://www.topvme.com)