



WA100

Remote Control Box
User Guide



Thank you for choosing TOP VME .



Contents



1. Introduction	1
1-1. Overview.....	1
1-2. Features	1
2. Specification	2
2-1. General.....	2
2-2. Electronic	2
2-3. Machine	2
3. Packing List	2
4. Dimension.....	3
5. Installation	4
5-1. Harness Application	4
5-2. Hardware Application	17
6. Instructions	18
6-1. Installation Notes.....	18
6-2. WIFI search mode	18
6-2-1. IOS Users.....	18
6-2-2. Android users	19
6-3. Device activate mode	21
6-4. Normal mode	23
6-5. Instruction information	25
6-5-1. Disable device.....	25
6-5-2. Key in	27
6-5-3. key Out.....	28
6-5-4. Free play	30
6-5-5. Clean current records	32
6.Troubleshooting.....	34



1. Introduction

1-1. Overview

This product is connected between the coin selector and the vending machine. It's easy to install instead of modifying system and program, the remote control box has some function which can recode all bargain, paying by app of phone, and adjust point from machine include claw machine, washing machine, dryer, electric massage chair, parking payment machine, vending machine, etc.

1-2. Features

- Control remotely using your smart phone or PC.
- Easy setup with any smart phone.
- Adaptable to different machines
- Help you keep a close monitor on your income.
- 100kb~150kb transmission a day.



2. Specification

2-1. General

transmit and receiving rate	99.99%
Data transmission	100~150 KB/Day
Response time	1.5~2 秒
Interface	WIFI / PLUSE / RS232
Installation	Provide WIFI space

2-2. Electronic

Power Source	12V DC \pm 10%
Power Consumption	Standby: 0.1~0.17 A
	Operation Current : 0.25A
	Maximum : 0.50A
Temperature Range	Operating Temperature: 0° C~60° C
	Storage Temperature: -10° C~80° C
	Humidity: 20%~70% RH (no condensation)

2-3. Machine

Weight	86 \pm 10 g
Outline Dimension	82 x 82 x 21 mm
WIFI bandwidth	2400MHz~2483.5MHz

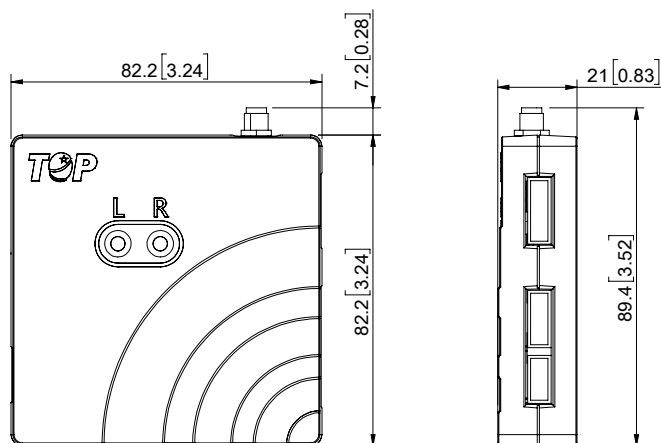
3. Packing List

Main	WA100 Remote control box
Accessories	User Guide x1
	Antenna x1
	Harness x1



4. Dimension

Unit : mm [inch]





5. Installation

5-1. Harness Application

Interface	Voltage	Usage	Harness NO.	Page
PULSE	12V DC	Sensor	2WIR-WIFI001 _(Purchase)	5
		Sensor	2WIR-WIFI002 _(Purchase)	6
		Power and singal out	2WIR-WIFI003 _(Purchase)	7
		Coin acceptor	2WIR-WIFI004 _(Purchase)	8
		Coin acceptor	2WIR-WIFI005 _(Taiwan)	9
		Coin acceptor	2WIR-WIFI006 _(Foreign)	10
		Counter	2WIR-WIFI007 _(Purchase)	11
		Power and singal out	2WIR-WIFI008 _(Purchase)	12
		Bill acceptor	2WIR-WIFI009 _(Purchase)	13
		Bill acceptor	2WIR-WIFI010 _(Purchase)	14
		Power and singal out	2WIR-WIFI011 _(Purchase)	15
		Coin selector	2WIR-WIFI012 _(Purchase)	16



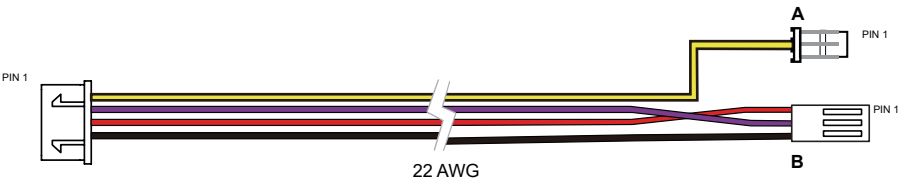
NOTE : Software download

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



HARNESS FORMAT

2WIR-WIFI001



Connect with JP3

PIN NO	COLOR	PIN DEFINE
PIN1	YELLOW	METER OUT
PIN2	PURPLE	METER IN
PIN3	RED	12V DC
PIN4	BLACK	GND
PIN5	X	X

A Connect with main board

PIN NO	COLOR	PIN DEFINE
PIN1	X	X
PIN2	YELLOW	SIGNAL OUT
PIN3	X	X

B Connect with sensor

PIN NO	COLOR	PIN DEFINE
PIN1	RED	12V DC
PIN2	PURPLE	SIGNAL IN
PIN3	BLACK	GND

Topvme



HARNESS FORMAT

2WIR-WIFI002



Connect with JP3

PIN NO	COLOR	PIN DEFINE
PIN1	YELLOW	METER OUT
PIN2	PURPLE	METER IN
PIN3	RED	12V DC
PIN4	BLACK	GND
PIN5	X	X

A Connect with main board

PIN NO	COLOR	PIN DEFINE
PIN1	X	X
PIN2	YELLOW	SIGNAL OUT
PIN3	X	X

B Connect with sensor

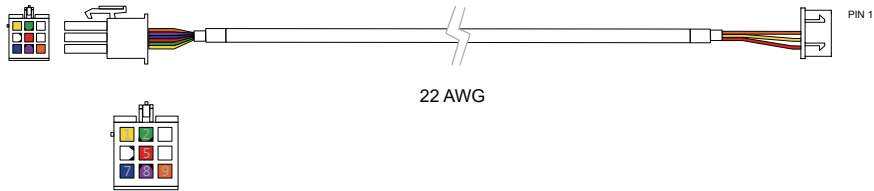
PIN NO	COLOR	PIN DEFINE
PIN1	RED	12V DC
PIN2	PURPLE	SIGNAL IN
PIN3	BLACK	GND

Topvme



HARNESS FORMAT

2WIR-WIFI003



PIN NO	COLOR	PIN DEFINE
PIN1	YELLOW	COIN/BILL OUT
PIN2	X	X
PIN3	X	X
PIN4	X	X
PIN5	RED	12V DC
PIN6	X	X
PIN7	X	X
PIN8	X	X
PIN9	ORANGE	GND

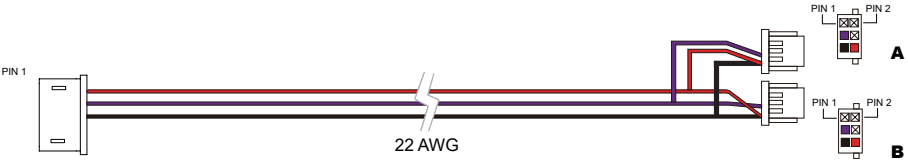
Connect with JP4

PIN NO	COLOR	PIN DEFINE
PIN1	RED	12V DC
PIN2	YELLOW	COIN/BILL OUT
PIN3	ORANGE	GND
PIN4	X	X



HARNESS FORMAT

2WIR-WIFI004



Connect with JP5

PIN NO	COLOR	PIN DEFINE
PIN1	RED	12V DC
PIN2	PURPLE	COIN IN
PIN3	BLACK	GND
PIN4	X	X

Connect with UCA2

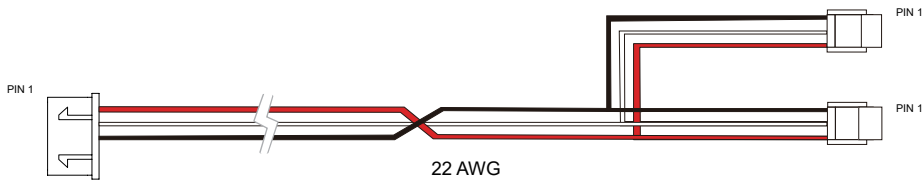
PIN NO	COLOR	PIN DEFINE
PIN1	X	X
PIN2	X	X
PIN3	PURPLE	COIN IN
PIN4	X	X
PIN5	BLACK	GND
PIN6	RED	12V DC

Topvme



HARNESS FORMAT

2WIR-WIFI005



Connect with coin JP5

PIN NO	COLOR	PIN DEFINE
PIN1	RED	12V DC
PIN2	WHITE	COIN IN
PIN3	BLACK	GND
PIN4	X	X

Connect with coin acceptor

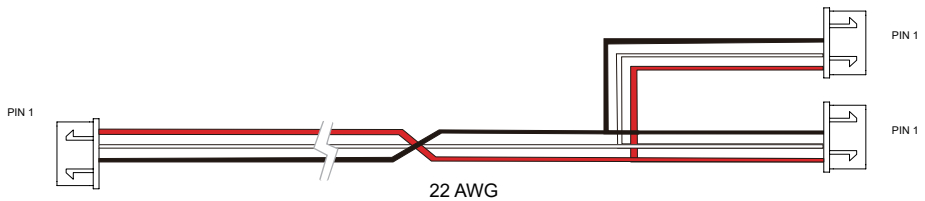
PIN NO	COLOR	PIN DEFINE
PIN1	X	X
PIN2	BLACK	GND
PIN3	WHITE	COIN IN
PIN4	RED	12V DC

Topvme



HARNESS FORMAT

2WIR-WIFI006



Connect with coin JP5

PIN NO	COLOR	PIN DEFINE
PIN1	RED	12V DC
PIN2	WHITE	COIN IN
PIN3	BLACK	GND
PIN4	X	X

Connect with coin acceptor

PIN NO	COLOR	PIN DEFINE
PIN1	X	X
PIN2	BLACK	GND
PIN3	WHITE	COIN IN
PIN4	RED	12V DC

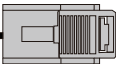
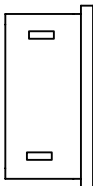
Topvme



HARNESS FORMAT

2WIR-WIFI007

PIN 1



Connect with Counter



Connect with JP3

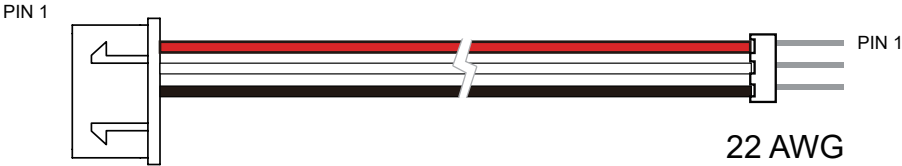
PIN NO	COLOR	PIN DEFINE
PIN1	X	X
PIN2	YELLOW	METER IN
PIN3	X	X
PIN4	X	X
PIN5	X	X

Topvme



HARNESS FORMAT

2WIR-WIFI008



Connect with JP4

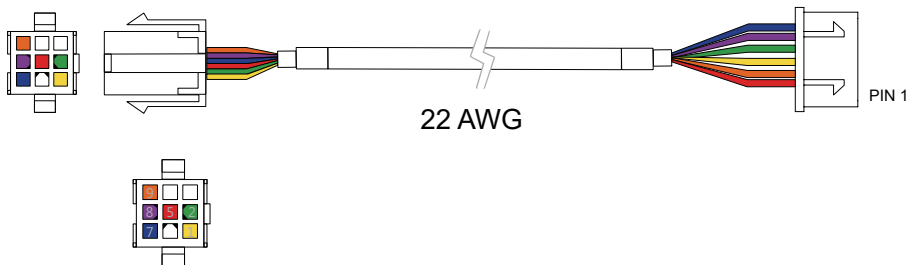
PIN NO	COLOR	PIN DEFINE	PIN NO	COLOR	PIN DEFINE
PIN1	RED	12V DC	PIN1	RED	12V DC
PIN2	WHITE	COIN/BILL OUT	PIN2	WHITE	COIN/BILL OUT
PIN3	BLACK	GND	PIN3	BLACK	GND
PIN4	X	X	PIN4	X	X

Topvme



HARNESS FORMAT

2WIR-WIFI009



PIN NO	COLOR	PIN DEFINE
PIN1	YELLOW	INHIBIT
PIN2	GREEN	GND
PIN5	RED	12V DC
PIN7	BLUE	12V DC
PIN8	PURPLE	BILL IN
PIN9	ORANGE	GND

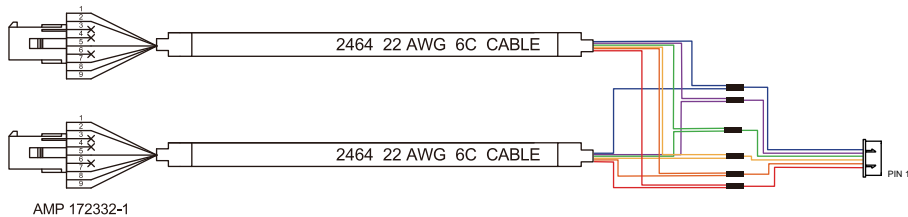
Connect with JP6

PIN NO	COLOR	PIN DEFINE
PIN1	RED	12V DC
PIN2	ORANGE	GND
PIN3	YELLOW	INHIBIT
PIN4	GREEN	GND
PIN5	BLUE	12V DC
PIN6	PURPLE	BILL IN



HARNESS FORMAT

2WIR-WIFI010



PIN NO	COLOR	PIN DEFINE
PIN1	YELLOW	INHIBIT
PIN2	GREEN	GND
PIN5	RED	12V DC
PIN7	BLUE	12V DC
PIN8	PURPLE	BILL IN
PIN9	ORANGE	GND

Connect with JP6

PIN NO	COLOR	PIN DEFINE
PIN1	RED	12V DC
PIN2	ORANGE	GND
PIN3	YELLOW	INHIBIT
PIN4	GREEN	GND
PIN5	BLUE	12V DC
PIN6	PURPLE	BILL IN

Topvme

2WIR-WIFI011



PIN NO	COLOR	PIN DEFINE
PIN1	BLACK	GND
PIN2	RED	12V DC
PIN3	X	X
PIN4	X	X
PIN5	WHITE	COIN/BILL OUT

- **Topvme**



HARNESS FORMAT

2WIR-WIFI012



Connect with JP5

PIN NO	COLOR	PIN DEFINE
PIN1	RED	12V DC
PIN2	WHITE	COIN IN
PIN3	BLACK	GND
PIN4	X	X

Connect with Coin acceptor

PIN NO	COLOR	PIN DEFINE
PIN1	BLACK	GND
PIN2	RED	12V DC
PIN3	X	X
PIN4	X	X
PIN5	WHITE	COIN/BILL OUT
PIN6	X	X

Topvme

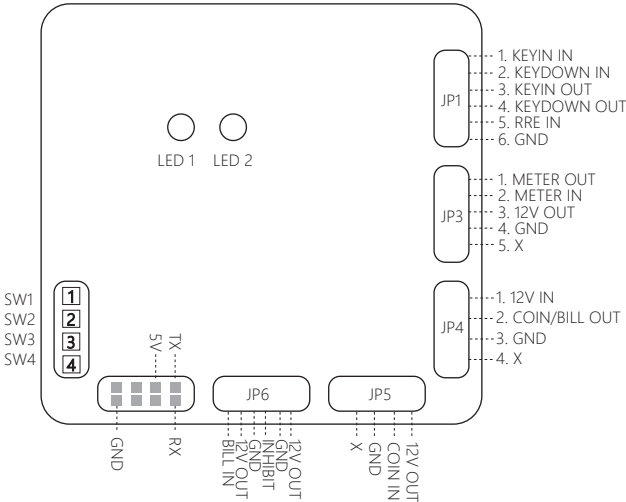


5-2. Hardware Application

Location	Type	Function
JP1 PORT	Key in/ Key out	Provide 3 input pin and 2 output pin to connect machine(Pulse Mode only)
JP3 PORT	Hopper/Counter	Provide 1 input pin and 1 output pin to connect Hopper or counter(Pulse Mode only)
JP4 PORT	Power/ signal output	Provide 12V power input pin and signal output pin for coin selector and bill validator
JP5 PORT	Coin selector	Provide 1 input pin to connect coin selector
JP6 PORT	Bill validator	Provide 1 input pin and 1 output pin to connect bill validator
J1	protocol	Provide TX and RX for data transmission

Function	SW1	SW2	SW3	SW4
WIFI search mode	ON	OFF		
Device activate mode	OFF	ON		
Normal mode				
JP3=Counter	OFF	OFF		
JP3=Refund machine	ON	ON		
JP1&JP3=NO mode			OFF	
JP1&JP3=NC mode			ON	
JP3=pulse mode				OFF
JP3=hopper mode				ON

Ex : If JP3 connect counter using No mode and pulse mode, all SW should be OFF abd re-plug power.





6. Instructions

6-1. Installation Notes

Remote control box has three modes:


1. WIFI search mode.
2. Device activate mode.
3. Normal mode.

First time setup, please follow.


Setup flow: WIFI search mode-> Device activate mode -> Normal mode.

Already setup, please skip chap3.0. and read chap4.0.

6-2. WIFI search mode

1. Connect power to JP4.
2. Turn on (press) switch 1. 
3. Turn Power. (LED Blue flash fast)
4. Connect your smartphone to the WIFI spot you want the device to use.
(Step for both Android and IOS users)

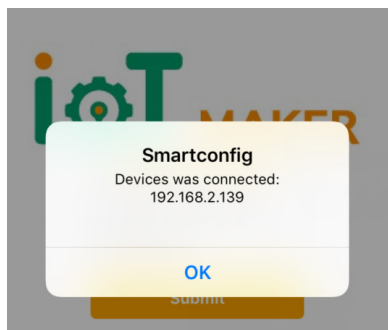
6-2-1. IOS Users

1. Go to the App store and type keyword "IoT Maker" . 
2. Download the IOT Smartconfig APP as picture Launch the Smartconfig APP, it will automatically detect the WIFI spot your cellphone is using and key in the WIFI password.





3. Wait 10~20 second after submit, setting successful as blow.

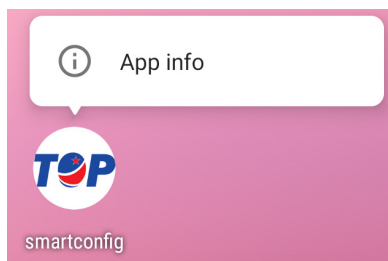


Continue step 6.

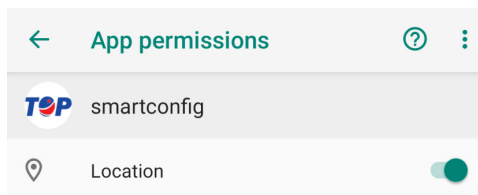
6-2-2. Android users

1. Go to the App store and type keyword "smartconfig" .

Download the Smartconfig APP as below. Press the APP for 5 seconds and select App info.

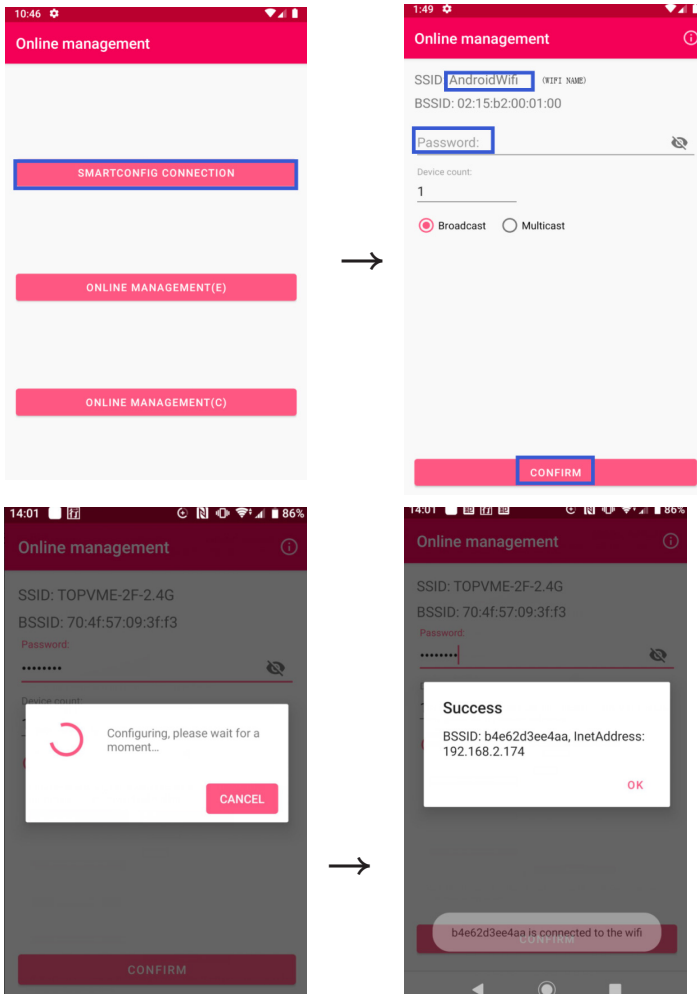


2. Go to App permission and turn on location as below.






3. Go to the smartconfig APP, it will automatically select the WIFI from your smartphone. Key in password and confirm.
4. Wait 10~30 secs; when the setting is successful, it will give a message of a successful connection.

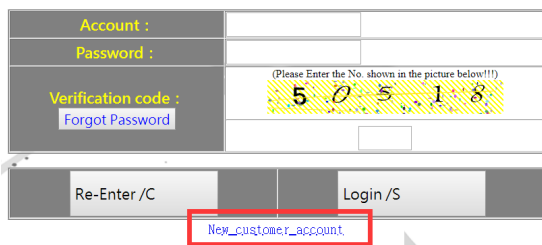


6. When the unit has successfully connected to the WIFI the LED Red and Blue will alternately flash.
 7. Disconnect the power cable.
- Note: if first time setting, please follow the next steps.




6-3. Device activate mode

1. While the unit is not connected to power, press switch 2 on the device to ON . 
2. Connect the power cable. (LED Blue will flash fast)
3. Please open your web browser and log in to: rams.topvme.com/topvme
4. Please apply new account; system will feed back account and password from your e-mail. If user have account, please go step5.



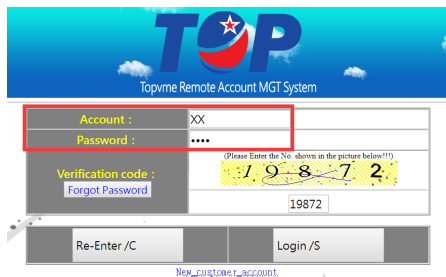
Account :

Password :

Verification code : (Please Enter the No. shown in the picture below!!!)

[Forgot Password](#)

[New_customer_account](#)

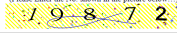
5. Please Key in account and password.



TOP
Topvme Remote Account MGT System

Account : XX

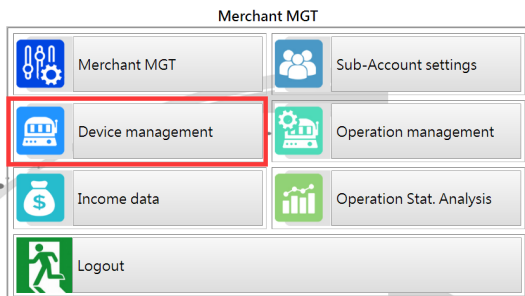
Password : ****

Verification code : (Please Enter the No. shown in the picture below!!!)

 19872








[Forgot Password](#)

[New_customer_account](#)

6. Please select .



Merchant MGT

 Merchant MGT	 Sub-Account settings
 Device management	 Operation management
 Income data	 Operation Stat. Analysis
 Logout	



7. Then click **Device activate** , key in your device number and select Confirm.

Device activate

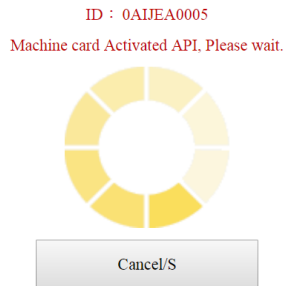
Device number :

0AIJEA0005

Back

Activate confirmation

8. While the unit is being registered, the website will show the following.



9. WIFI box LED Red and Blue alternately flash after activate successful or fail and status show activate as below.

→ A successful connection will show the following message.

	Device number	Name	Status
Edit	0AIJEA0005	0AIJEA0005	Activated

→ A failed connection will show the following message. Please retry from step 6.

10. Plug the power cable one more time.

Note: if first time setting, please continue with the next steps.



6-4. Normal mode

1. Switch 1 and Switch 2 on the unit turn to OFF.

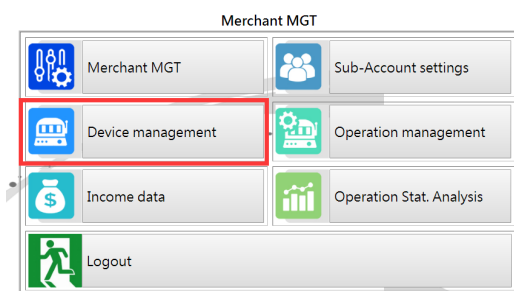


2. Power cable connects to JP4, coin selector cable connects to JP5 and bill validator cable connects to JP6.

3. Open power and wait LED RED and BLUE will light up constantly.

4. For coin value and pulse setup:

Please go to back to your homepage on the website and select "Device management"



5. Click "Edit" .

	Device number	Name	Status
Edit	0AIJEA0005	0AIJEA0005	Activated

6. Key in your values.

Coin value : 1

Banknote value : 100

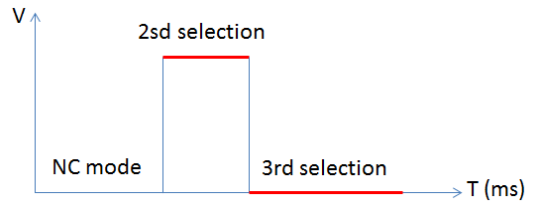
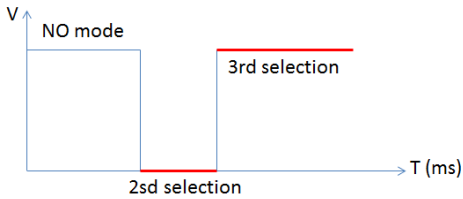
Coin value: How much per pulse as coin selector.

Banknote value: How much per pulse as bill validator.



Key in JP5 coin pulse / JP6 Bill pulse type and width.

Machine card pulse : (1.50.50)



First selection: NO/NC

Second selection: L/H

Third selection: H/L

7. Click to save data after fill in value.

8. System will automatically reset after your information has been saved.

The unit will automatically power on and both blue and red LED should constantly shine.

After a first setup for every unit, we can use instructions (Chap4). No need setup an unit twice.



6-5. Instruction information

6-5-1. Disable device

Remove device from website.

1. While the unit is not connected to power, please turn on switch 2.



2. Turn Power. (LED Blue flash fast)

3. Please log in to: rams.topvme.com/topvme

4. Please Key in account and password and login.

Account : XX

Password : ****

Verification code : 19872

Forgot Password

19872

Re-Enter /C Login /S

New_customer_account

5. Please click "Operation management" .

Merchant MGT

Merchant MGT Sub-Account settings

Device management Operation management

Income data Operation Stat. Analysis

Logout



6. And select "click" .

	Status	Machine Name
Click	Online	0AIJEA0005

7. Click on the "Disable device" option.

1.Key in	2.Key out
3.Free play	4.Clean current records
0.Disable device	
A.Cashflow setting	B.Shock setting

8. Please confirm the device name and click "Save" .

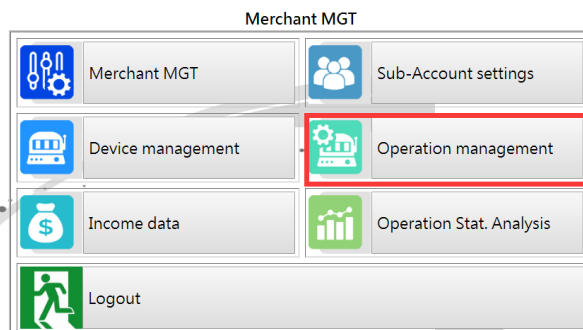
Disable device	
Name :	0AIJEA0005
Back	Save



6-5-2. Key in

Function gives point to machine. It is only useful for gamble machine.

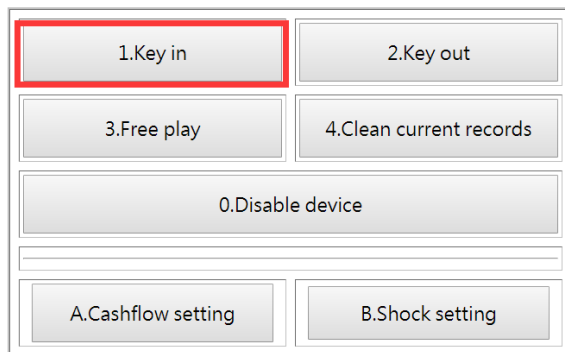
1. Connect counter to JP1.
2. Action in normal mode
3. Please log in to: rams.topvme.com/topvme
4. Please Key in account and password and login.
5. Please click "Operation management" .



6. And click "Click" .

	Status	Machine Name
Click	Online	0AIJEA0005

7. Click "Key in"












8. Select key in amount and save

Key in	
Name :	0AIJEA0005
Key in amount :	100 + 20 + 3
Total Open Scores :	123
<div>Back</div> <div>Save</div>	

6-5-3. key Out

Clean counter point in gamble machine.

1. Connect counter to JP1.
2. Action in normal mode
3. Please log in to: rams.topvme.com/topvme
4. Please Key in account and password and login.
5. Please click "Operation management" .

Merchant MGT	
	Merchant MGT
	Sub-Account settings
	Device management
	Operation management
	Income data
	Operation Stat. Analysis
	Logout



6. And click "Click" .

	Status	Machine Name
Click	Online	0AIJEA0005

7. Click "Key Out"

1.Key in	2.Key out
3.Free play	4.Clean current records
0.Disable device	
A.Cashflow setting	B.Shock setting

8. Confirm name and click "Save"

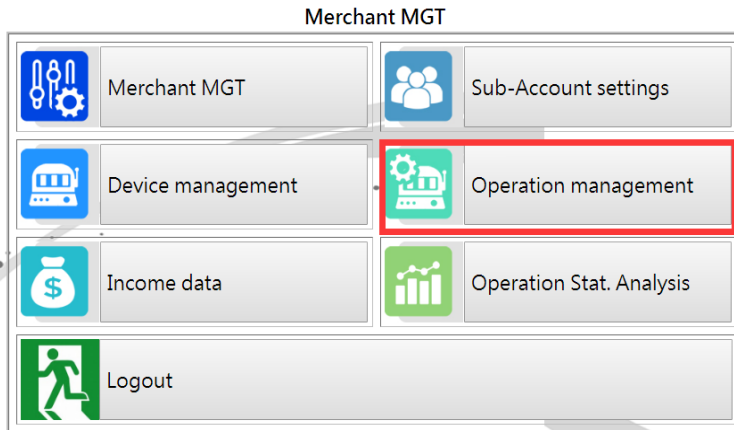
Key out	
Name :	0AIJEA0005
Back	Save



6-5-4. Free play

Give point to machine.

1. Connect counter to JP4.
2. Action in normal mode
3. Please log in to: rams.topvme.com/topvme
4. Please Key in account and password and login. °
5. Please click "Operation management" .



6. And click "Click" .

	Status	Machine Name
Click	Online	0AIJEA0005



7. Click "Free play"

1.Key in	2.Key out
3.Free play	4.Clean current records
0.Disable device	
A.Cashflow setting	B.Shock setting

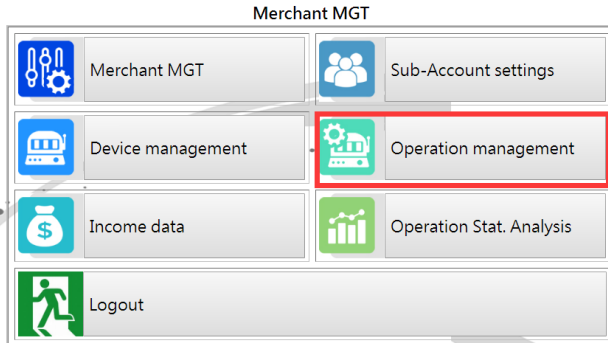
8. Select free play amount and click "Save" .

Free play	
Name :	0AIJEA0005
Free play Amount :	10 ▼
Back	Save



6-5-5. Clean current records

1. Action in normal mode
2. Please log in to: rams.topvme.com/topvme
3. Please Key in account and password and login.
4. Please click "Operation management" .



5. And click "Click" .

	Status	Machine Name
Click	Online	0AIJEA0005



6. Click "Clean current records"

1.Key in	2.Key out
3.Free play	4.Clean current records
0.Disable device	
A.Cashflow setting	B.Shock setting

7. Confirm the unit name and click "Save" .

Clean current records	
Name :	0AIJEA0005
Back	Save



6.Troubleshooting

LED Red: power status. LED Blue: signal status.

Red LED	Blue LED	Status	Troubleshooting
On	Off	Connect WIFI fail	1. type wrong account/password, please retry. 2. Please take cell phone near box when sending account and password of WIFI.
On	Flash 1	WIFI disconnect	1. Make sure WIFI setup successful. 2. Poor reception ,need change place.
On	Flash 3	Server disconnect	1.Replug power. 2. Server close , inform us.
Off	Off	No power	Make sure power 12V connect to JP4.



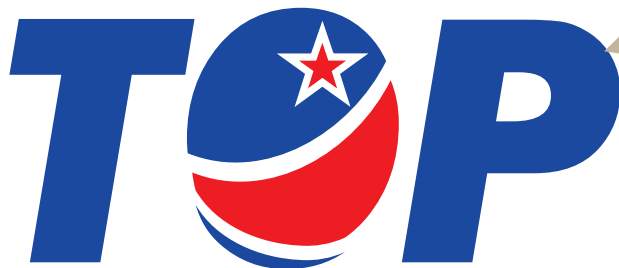
Top Vending Machine Electronics Co., Ltd.

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

Website : www.topvme.com



Top Vending Machine Electronics Co., Ltd.



www.topvme.com