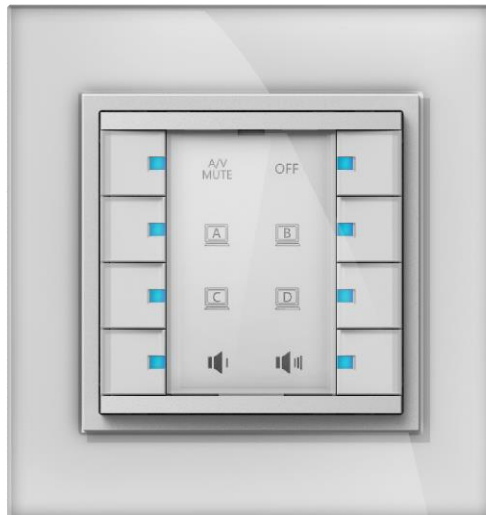


# VLCP8B Controller

## User Manual



# USER MANUAL

The VivoLink Control System is an easy to use control panel for meeting facilities. It mounts in a standard EU junction box or Thorsman connection list.

Control your projector, screen and amplifier all from the same unit with 8 function keys. Do you need extra function you can an extra panel and have 2 units together to get 16 bottoms.

Product include : Panel with a white frame, power supply, RS232 cable (15m), Transfer Cable (5m) used between two controllers, IR cable (10m), USB cable, software on usb disk, IR eye and a manual.

## Key Features

- 8 function keys with indication lights for working status, green and red LED
- Customizable button print labels. Word file can be downloaded
- Mounts in a single size European junction box with 60 mm mounting centers
- Any button can be configured to execute multiple actions through the serial, IR control and Relay ports. Start the projector (RS2323), screen down (Relay) and Switch on input 1(RS232 parallel connection)
- Built in clock, timer for on off application

## Specification

- Unidirectional RS-232, with the possible to have 5 different commands or devices in one button
- Configurable IR ports for universal display control. Capture IR codes from a device's handheld remote control.
- 12VDC Trigger enables control Grandview screens, 12V trigger input
- Easy-to-use configuration software provides fast and simple set-up
- Double panel working mode, gives you 16 function keys
- Mini USB / Learning key on the front
- Volume up/down keys

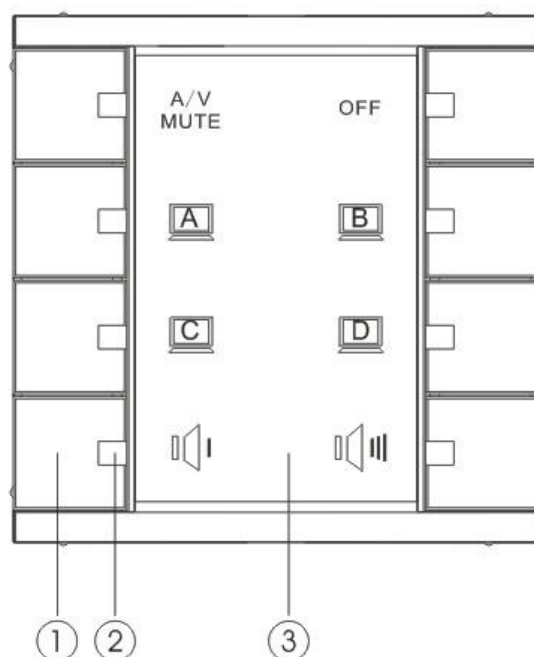
## Software

Configuration software for PC provides fast and simple set-up. The min USB control port is on the front side. Software can be downloaded from....please contact EET, VivoLink department

Control Drivers

# USER MANUAL FOR HARDWARE

## 3.1 Controller



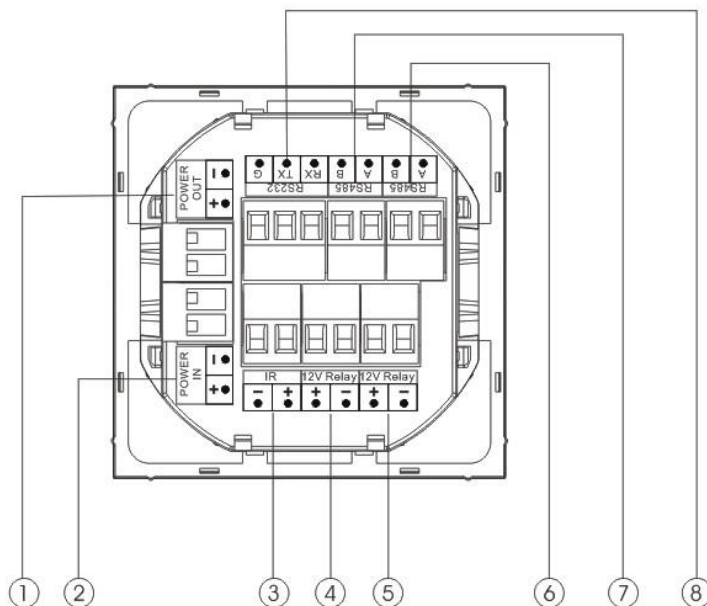
1、Function keys

2、Indicator lights

3、Card for describing the functions

- 1、 Function keys: Any of the functions could be set by this software
- 2、 Indicator lights: For indicating the working status
- 3、 Cards for describing the functions: Users can print the corresponding card according to the set function, then put into the transparent cover to indicate its key functions.

### 3.1.2 Connection instruction

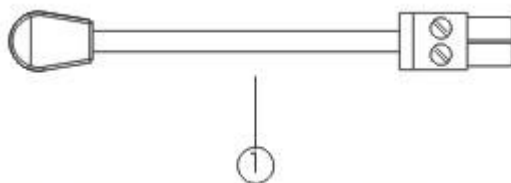


- |                          |                          |                   |
|--------------------------|--------------------------|-------------------|
| 1、 12V power out         | 2、 12V power in          | 3、 IR connector   |
| 4、 DC12V relay connector | 5、 DC12V relay connector | 6、 RS485connector |
| 7、 RS485connector        | 8、 RS232connector        |                   |

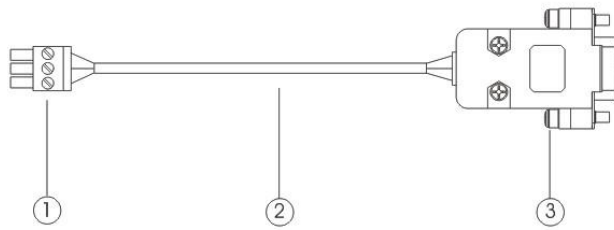
- 1、 DC12V power out: Provide power supply for other modular units, such as AMP.
- 2、 DC12V power in.
- 3、 IR connector: Control IR devices by IR extender cables.
- 4/5、 DC12V relay connector: Control DC12V devices, such as projection screen.
- 6/7、 RS485connector: Control RS485devices, or communicating between the main and slave modular units.
- 8、 RS232connector: Control RS232 devices

### 3.1.3 VLCP8B---accessories instructions

#### 3.1.3.1 IR emission cables



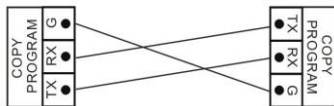
#### 3.1.3.2 RS232 serial connector 15m



- 1、Phoenix connector
- 2、3-core cable (user provide)
- 3、RS232 connector

Wiring:

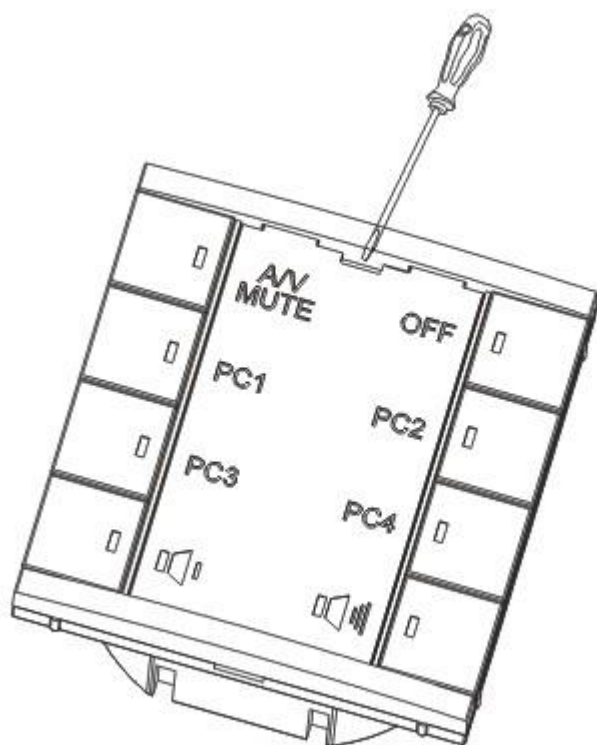
- a. ⑥ RS232 connector: CTL3    G-----G  
    TX-----RX  
    RX-----TX



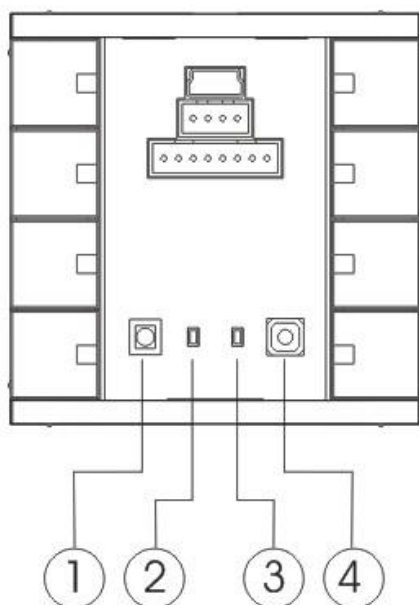
### 3.1.4 User manual

#### 3.1.4.1 IR learning

- 1、Remove the transparent cover in the middle, and replace with your own defined function cards.



## 2、IR learning



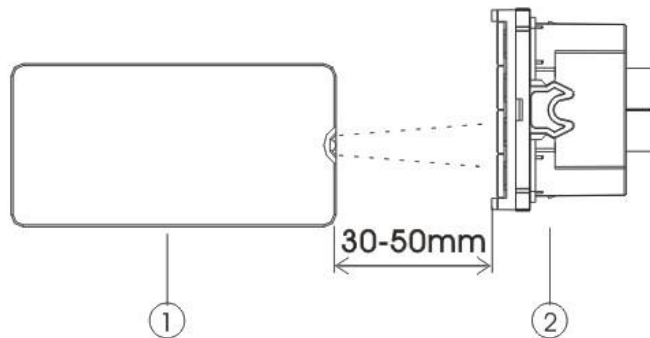
1、IR receiver      2、Red LED light      3、Green LED light      4、Learning key

Learning process:

- A. Press learning key, the red LED lights turns on.
- B. Press the key that you want to learn, such as "ON/OFF" key.

C. Aim the remote controller to the IR receiving window which is in the middle of the AV control, and press "ON/OFF" key continuously till green lights ON and both green and red light OFF, then release.

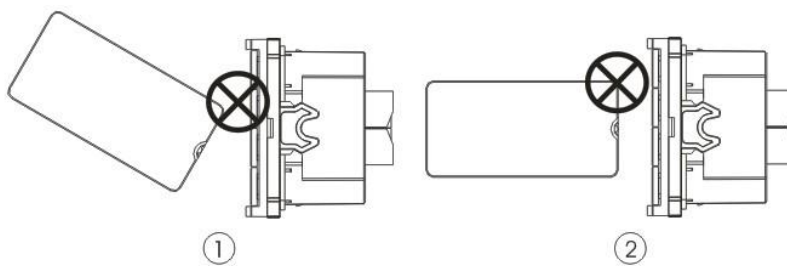
3. Correct learning distance



1. Remote controller

2. Controller

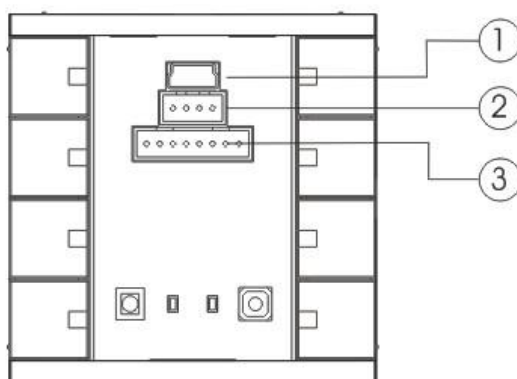
4. False leaning process



1. Not horizontal

2. Too close

3.1.4.2 Software burning



1、MINI USB connector: Code burning by the software

2、4-core socket: Coding connector for backup

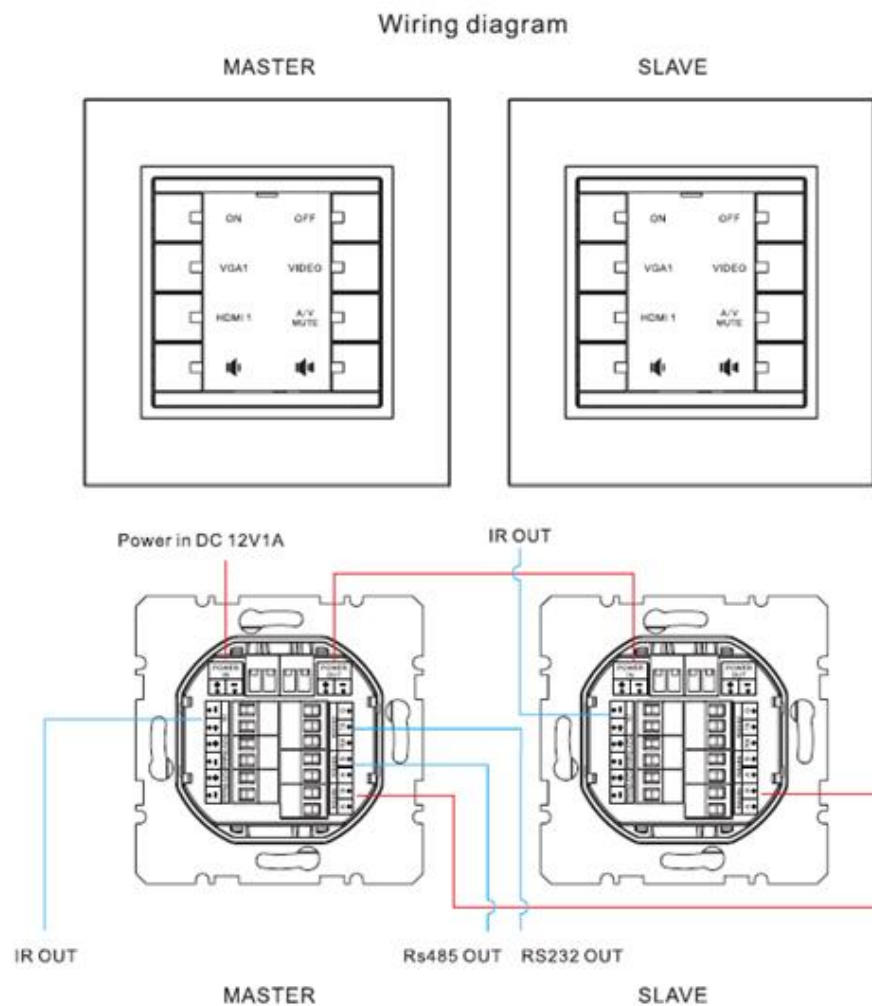
3、8-core socket: System programing for AV control itself

### 3.7 Double panels working mode

Double panels working: Each VLCP8B has 8 buttons in the panel, once user need more than 8 functions to set, can add one more VLCP8B unit as a slave modular to extend panel.

Thus the buttons number can be upgraded to 16. The master and slave modular please connect as below, and setting function in software.

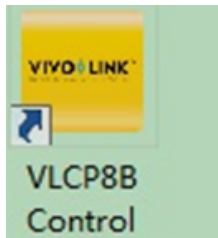
Remark: All RS232, RS485 signal output from master. IR signal output from master and slave separately.



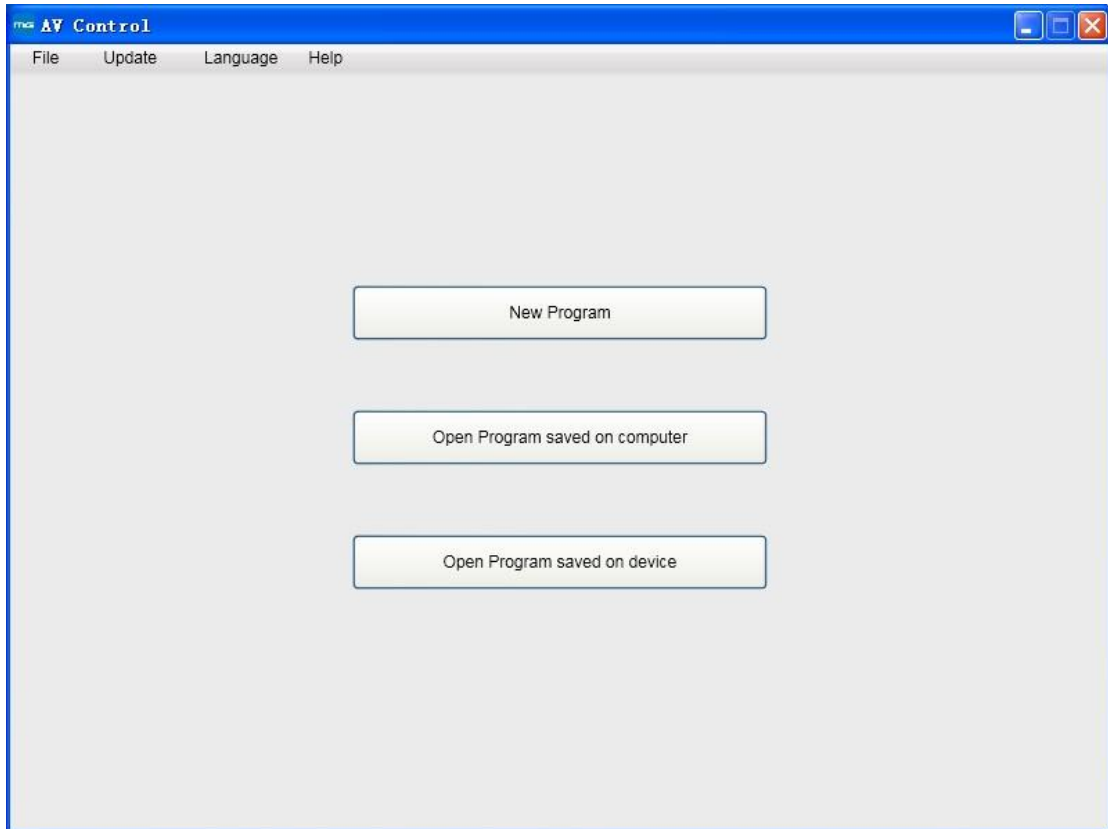
## 二、USER MAMUAL FOR SOFTWARE

After software installed, click the icon showed below, enter Window 1

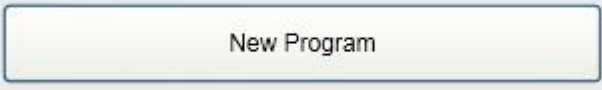


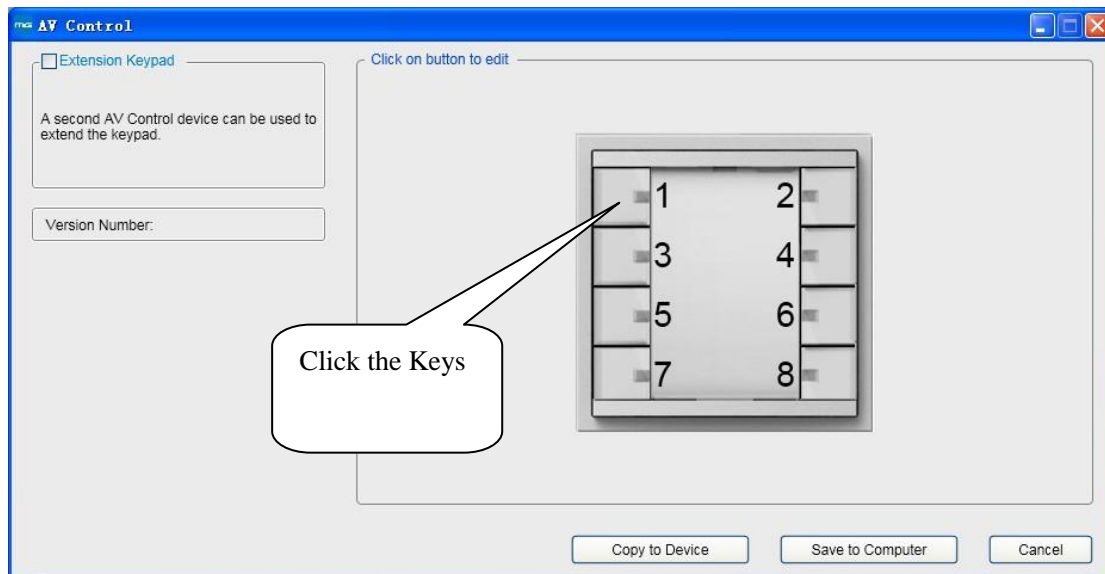


Window 1

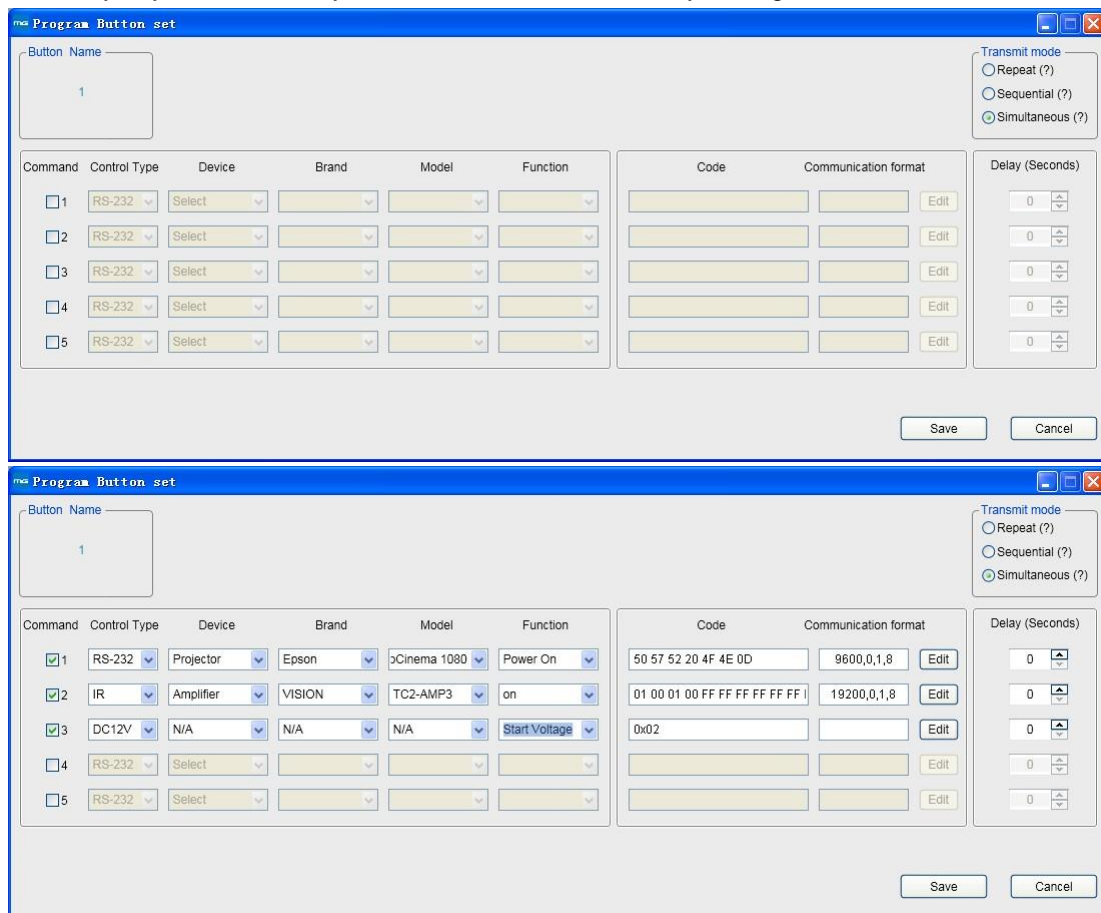


- 1、"New Program" function: Users can click this button to set a new program.
- 2、"Open Program saved on computer" function: Open a saved program file.
- 3、"Open Program saved on device" function: Read a burned program file.

Click  to enter Window 2



Click any key in Window 2, you can enter window 3 for key settings

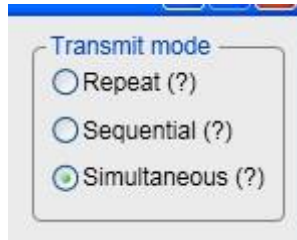


This window is used to set each keys function.

- 1、 Each key can be set up with five functions. Users can click the Command to choose.
- 2、 3 kinds of Control Type: IR、 RS232、 DC12V. Only 3 available for the same type of function ,  
Eg: 3 IR CODE can be set a most.
- 3、 Firstly, user can search the controlled code from the software database. After users select Device, Brand, model and function well, its function code will automatically appear in the window.

It's as shown above.

4、3 types of transmit mode as below:



4.1 When select "Repeat", after program burned, press the key "AV Control". This key code will be continuously sent. Usually, it is used on "VOL+", "VOL-" keys.

4.2 When select "Sequential", if this key is set for more than one function code. Then, press one key will send a function code, and then press again will send the second function code, then recycle continuously like that.

4.3 When you select "Simultaneous", user can set the delay time for sending each function code. You can set 59 seconds at maximum.



5、 If user can not found the device type in the software database, then they need to create a database for this device type. Select "ADD NEW" in any dropdown menu of "Device"、 "Brand"、 "model", then "ADD NEW" window appears.

5.1、 If it is RS232 Control Type, see the window below. Users need to find the corresponding control code in the device manual, enter into the software, click Save.

**ms Add New**

Device  Brand  Baud rate  ☐ ASCII

Model  Parity  ☒ HEX

	Function	Code
<input checked="" type="checkbox"/>	<input type="text" value="Select"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

Hex Rules:

1. For HEX code there is no need to input commas and spaces e.g. XX, XX, XX is input as XXXXXX
2. Only numbers 0-9 and letters A-F. All other characters are invalid.
3. If head of the code is 0x, then 0x should be ignored e.g. for 0xbe just input be.

ASCII Rules:

4. please remind that CR stands for hit the enter key, and please pay attention to the number of the enter keys.

Save Cancel

5.2 If it is IR Control Type, see the window below. Users click the key "Learn" to have the function for IR code learning.

Device: Amplifier Brand: VISION Model: TC2-AMP3

	Function	Code	
<input checked="" type="checkbox"/>	Select		Learn
<input type="checkbox"/>			Learn
<input type="checkbox"/>			Learn
<input type="checkbox"/>			Learn
<input type="checkbox"/>			Learn
<input type="checkbox"/>			Learn
<input type="checkbox"/>			Learn
<input type="checkbox"/>			Learn

**Hex Rules:**  
 1. For HEX code there is no need to input commas and spaces e.g. XX, XX, XX is input as XXXXXX  
 2. Only numbers 0-9 and letters A-F. All other characters are invalid.  
 3. If head of the code is 0x, then 0x should be ignored e.g. for 0xbe just input be.

**ASCII Rules:**  
 4. please remind that CR stands for hit the enter key, and please pay attention to the number of the enter keys.

Save Cancel

5.2.1、 First connect AV Control and computers by USB cable.

5.2.2、 Users fill the "Device", "Brand", "model", "function".

5.2.2、 Click the key "Learn", the following window appears. The red indicator lights for AV Control turned on. Click any keys of AV Control. Then let the remote controller aimed at the infrared receiver window of AV Control, press the key on the remote control. After AV Control receives the infrared code of remote controller, the green light flashes. Software window will appear the code learnt just now. See Figure 2. After learning all the codes, save and exit.

**Learn IR Code**

Point your device remote control at the front of the AV Control and press and hold the button you wish to learn. This box will close when the code has been learnt.

Learning IR Code  Cancel

---

Device Amplifier Brand Select Model Select

	Function	Code	
<input checked="" type="checkbox"/>	power on	01 00 00 00 FF FF FF FF FF I	<span>Learn</span>
<input type="checkbox"/>			<span>Learn</span>

After setting Window 3, Click Save, and back to window 2.

**Program Button set**

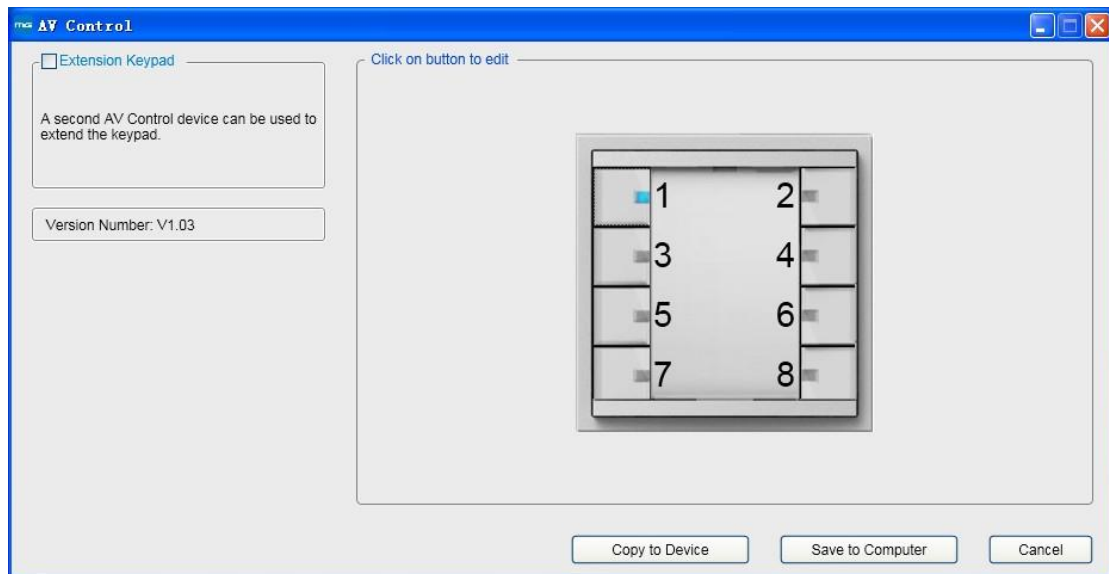
Button Name 1

Transmit mode  
☐ Repeat (?)  
☐ Sequential (?)  
☒ Simultaneous (?)

Command	Control Type	Device	Brand	Model	Function	Code	Communication format	Delay (Seconds)
<input checked="" type="checkbox"/> 1	RS-232	Projector	Epson	3Cinema 1080	Power On	50 57 52 20 4F 4E 0D	9600,0,1,8 <span>Edit</span>	0 <span>▲▼</span>
<input checked="" type="checkbox"/> 2	IR	Amplifier	VISION	TC2-AMP3	on	01 00 01 00 FF FF FF FF FF I	19200,0,1,8 <span>Edit</span>	0 <span>▲▼</span>
<input checked="" type="checkbox"/> 3	DC12V	N/A	N/A	N/A	Start Voltage	0x02	<span>Edit</span>	0 <span>▲▼</span>
<input type="checkbox"/> 4	RS-232	Select					<span>Edit</span>	0 <span>▲▼</span>
<input type="checkbox"/> 5	RS-232	Select					<span>Edit</span>	0 <span>▲▼</span>

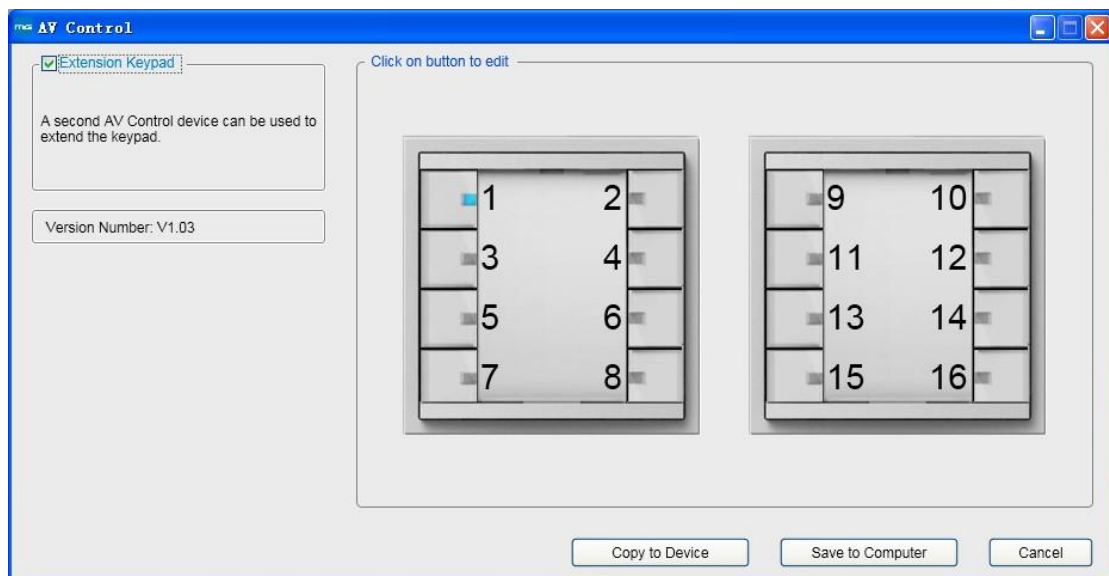
Save Cancel

Now, the set key lights in Window 2 turned blue. Use the same method to set other keys.

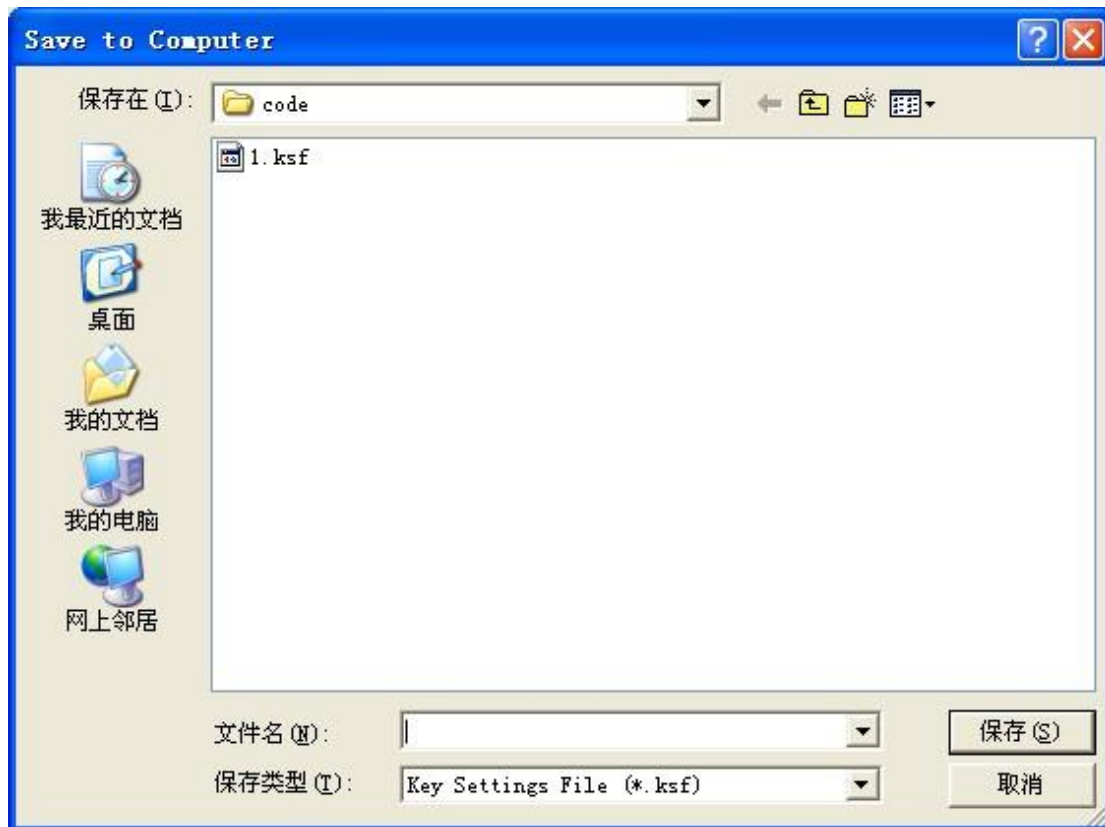


In Window 2, select Extension Keypad, then Extension Keypad interface appeared.

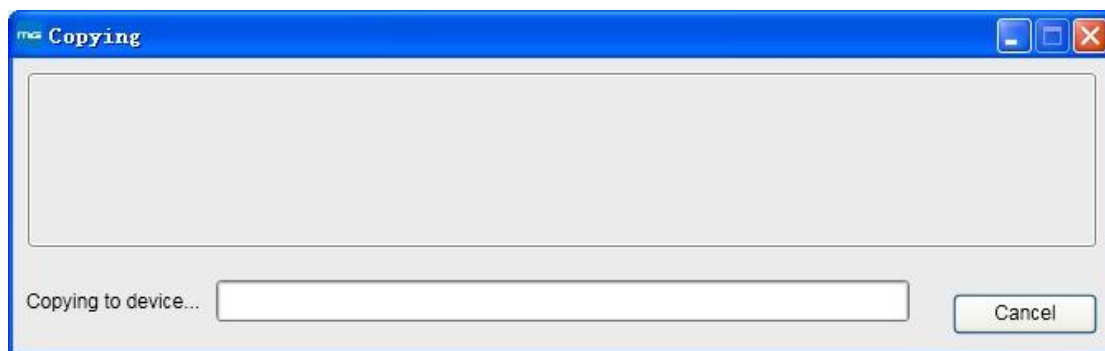
## 2 AV Control



Click "Save to device" to save the settings.

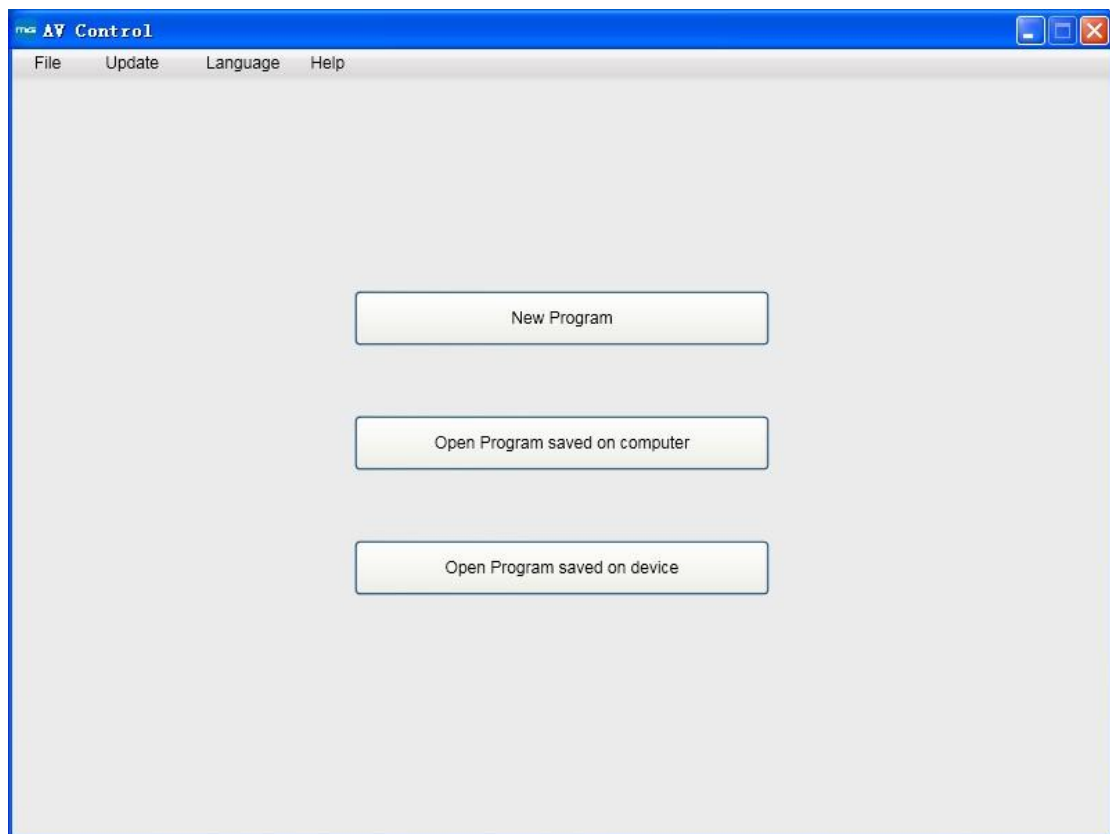


Click “Copy to device” to enter coding interface. Before clicking, please make sure AV Control is connected with computer correctly by USB cable.



In Window 1, click “Open Program saved on computer”.

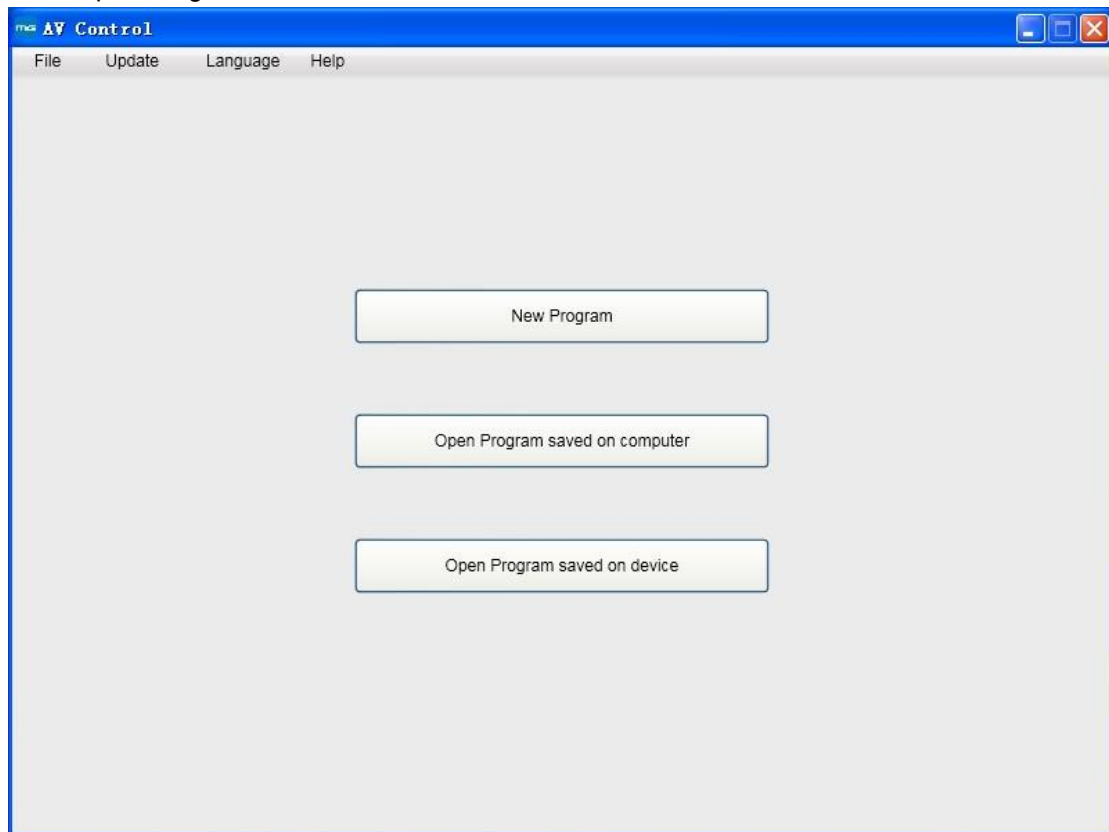




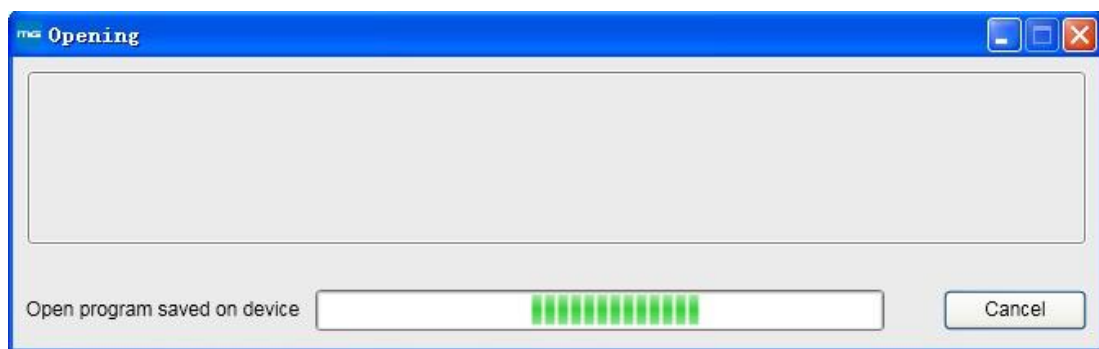
Open the .ksf file which saved before.



Click "Open Program saved on device" in Window 1.



Before clicking, please make sure AV Control is connected with computer correctly by USB cable. After reading successfully, the software burnt in AV Control will appeared in the interface.



People can click "save to computer" to save this key now.

ms AV Control

☐ Extension Keypad

A second AV Control device can be used to extend the keypad.

Version Number:

Click on button to edit

1	2
3	4
5	6
7	8

Copy to Device

Save to Computer

Cancel