AVDSP

Video Processor User Manual

VSP 112

RGBlink Science & Technology Co., Ltd.

The pictures and data in the user manual are consult only, if there is fluctuation, according to the real object please!

CONTACT US

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Revision

Format	Time	ECO#	Description	Principal
1.0	2011-06-09	0000	Release	Bing

CONTENT

1.0 Safety

The general safety information in this summary is for operating person. Any requirement, please feel freely to contact our service engineer.

	**Power Source** This product is intended to operate from a power source between 85~265 volts rms . This product is only workable under correct power condition, which is already mark on the back panel of the power.
	**High Voltage** There are many high voltage components inside.
	**Do not Remove Covers and Panels** Do not remove Covers in any conditions. There are not any spare components inside for maintenance, so do not maintain this product by userrselves, any requirement, please feel free to contact our service engineer. Keep heavy device from power cord.
	**Grounding the Product and Use the Proper Fuse** This product is grounded through the grounding conductor of the power cord. To Avoid electrical shock, plug the power cord into a properly wired receptacle before connecting to the product input or output terminals.
	**Keep away from Magnet, Motor, TV and Transformer.**
	**Guard Against Damp** Keep using inside clean and dryness environment, once the device get wet, must remove power cord right now.
	**Keep away Exploder** Do not operate the device inside dangerous and easy explosive gas, which it may make fire, blast or something without expectation.
	**Keep away Pour Liquid and Fragment** It is forbid to pour liquid, metal fragment or anything else inside this device to avoid fire and other accident. Once that happens, must remove power cord and try to make it clean before power on again.

2.0 Specification

AVDSP series video processors are designed by the latest high performance image processing technology. AVDSP can handle following video without limit, include CVBS（Composite）、S-Video (YC)、YCbCr、YPbPr、RGBHV（VGA）、DVI-D、HDMI、SDI（SD-SDI、HD-SDI） and USB.

Compare table of AVDSP as following.

RGBlink Video Processor Compare Table

Product	RGBlink	1S	3S					5S						6S								7S
	Application	LED Video Processor	Video Mosaic				MultiViewer	LED Video Processor						LED Video Processor								Video Controller
Parameters	Model	VSP 112	VSP 310	VSP320	VSP330	MVP320	MVP 330	VSP516	VSP516S	VSP516H	VSP526	VSP526S	VSP526P	VSP618	VSP618B	VSP618C	VSP618D	VSP618BC	VSP618BD	VSP618CD	VSP618BCD	VSP709
Application	Application market	Mobile LED & Fix install	Rental	Rental	Rental	Rental	Broadcasting	Fixed install	Broadcasting	Fixed install	Fixed install	Broadcasting	Rental	Rental	Rental	Rental	Rental	Rental	Rental	Rental	Broadcasting	Fixed install & Rental
Input	Composite	×2	-	-	-	Module	Module	×3	×3	×3	×3	×3	×3	×3	×3	×3	×3	×3	×3	×3	×3	×6
	SVideo	-	-	-	-	-	-	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×2
	YCbCr	-	-	-	-	Module	-	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×2
	YPbPr	-	-	-	-		-							×1	×1	×1	×1	×1	×1	×1	×1	
	SDI (SD/HD Compatible)	-	-	-	-	-	Module	-	×1	-	-	×1	-	-	×2	-	-	×2	×2	-	×2	×2
	DVI	×1	×1	×1	×2	Module	-	×1	×1	×1	×1	×1	×2	×1	×1	×1	×1	×1	×1	×1	×1	×2
	HDMI		-	-		-	-						×1	-	-	×2	-	×2	-	×2	×2	
	VGA	×1	×1	-	-	Module	-	×1	×1	×1	×1	×1	×2	×1	×1	×1	×1	×1	×1	×1	×1	×2
	USB	×1	-	-	-	-	-	-	-	-	×1	×1	×1	-	-	-	-	-	-	-	-	-
	Audio	-	-	-	-	-	-	×5	×5	×5	×4	×4	×4	-	-	-	-	-	-	-	-	×2
Output	Composite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SVideo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	YCbCr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	YPbPr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SDI (SD/HD Compatible)	-	-	-	-	-	-	-	-	-	-	-	-	-	×1(loop)	-	-	×1(loop)	×1(loop)	-	×1(loop)	-
	VGA	×1	-	-	-	Module	-	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1
	DVI	×1	×2	×4	×5	Module	-	×1	×1	×1	×1	×1	×3	×1	×1	×1	×1	×1	×1	×1	×1	×1
	HDMI	-	-	-		-	×1	-	-	-	-	-	-	-	-	-	×1	-	×1	×1	×1	×1
	Audio	-	-	-	-	-	-	√	√	√	√	√	√	-	-	-	-	-	-	-	-	√
Function & Service	Motion Compensation	Good	-	-	-	g	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
	Fade in Fade out	-	-	-	√	-	-	-	-	-	-	-	√	√	√	√	√	√	√	√	√	√
	Remote Control	√	-	-	√	-	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Video Processing Bits	10Bit	10Bit	8Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit	10Bit
	Picture In Picture	-	-	-	√	√	√	√	√	√	-	-	√	√	√	√	√	√	√	√	√	√
	Quad Picture	-	-	-	-	√	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-	√
	Multi Picture	-	-	-	-	√	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Gamma	√	-	-	-	-	-	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Brightness	√	-	-	√	-	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Contrast	√	-	-	√	-	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Timing Schedule	√	-	-	√	-	-	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	LOGO Overlay	-	-	-	√	-	√	-	-	-	-	-	√	√	√	√	√	√	√	√	√	-
	Subtitle Overlay	-	-	-	√	√	√	-	-	-	-	-	√	√	√	√	√	√	√	√	√	-
	Pixel Based Scale	√	-	-	-	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Video Mosaic	-	√	√	√	√	√	-	-	-	-	-	√	-	-	-	-	-	-	-	-	-
	Video Overlay	-	-	-	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Video Rotate	-	-	-	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Video Exchange	-	-	-	-	-	-	-	√	√	√	√	-	√	√	√	√	√	√	√	√	√
	Video Copy	-	-	-	-	-	-	-	√	√	√	√	-	√	√	√	√	√	√	√	√	√
	Refresh Rate	60Hz	60Hz	60Hz	60Hz	60Hz	60Hz	60Hz	60Hz	60Hz, 75Hz	60Hz	60Hz	60Hz	50Hz-85Hz	50Hz-85Hz	50Hz-85Hz	50Hz-85Hz	50Hz-85Hz	50Hz-85Hz	50Hz-85Hz	50Hz-85Hz	50Hz-85Hz
	Output Resolution(Single Port)	1920×1080	1920×1080	1440×900	1920×1080	1920×1080	1920×1080	1280×1024	1280×1024	1920×1080	1920×1080	1920×1080	1920×1080	2048×1152	2048×1152	2048×1152	2048×1152	2048×1152	2048×1152	2048×1152	2048×1152	2048×1152
	Digital Clock	√	-	-	-	-	-	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Remote Control Interface	USB	RS 232+USB+TCP/IP	Mini DIP	RS 232+USB+TCP/IP	RS 232+TCP/IP	RS232+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP	RS232+USB+TCP/IP
	Control Software	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Front Panel	16 button + LCD Module	16 button + LCD Module	Mini DIP	32 button + LCD Module	-	-	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module	32 button + LCD Module
	Outlet	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry
	Standard 1 Unit	√	-	-	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Standard 3 Unit	-	-	-	-	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Standard 8 Unit	-	-	-	-	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Standard 12 Unit	-	-	-	-	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Weight	2Kg	2Kg	1Kg	2Kg	3.5Kg(S)	6.5Kg	2Kg	2Kg	2Kg	2Kg	2Kg	2Kg	2Kg	2Kg	2Kg	2Kg	2Kg	2Kg	2Kg	2Kg	2Kg
	Warranty	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year
	CE Certification	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	FCC Certfication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	RoHS Certification	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

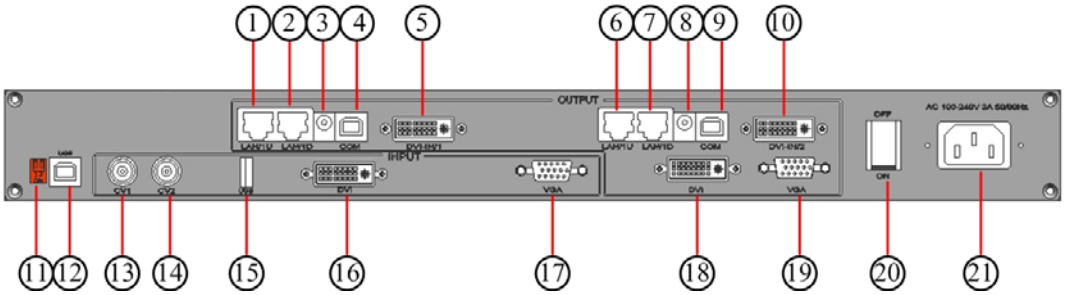
3.0 Parameters

Composite BNC Input	
Number of Inputs	2
Supported Standards	PAL/NTSC
Signal Level	1Vpp±3db (0.7V Video+0.3v Sync) 75 ohm
Number of Inputs	480i,576i
VGA DB15 Input	
Number of Inputs	1
Connector	Standard DB15 socket
Supported Standards	VGA-UXGA
Signal Level	R、G、B、Hsync、Vsync:0 to1Vpp±3dB (0.7V Video+0.3v Sync) 75 ohm black level：300mV Sync-tip：0V
Support input Standards	VGA-UXGA (800*600@60, 1024*768@60, 1280*1024@60, 1440*900@60,1600*1200@60)
DVI Input	
Number of Inputs	1
Connector	Standard DVI-I socket
Supported Resolution	SMPTE：625/25 PAL, 525/29.97 NTSC, 625/50p PAL, 525/59.94p NTSC:1080i50,1080i59.94/60,720p50,720p59.94/60 VESA ： 800×600×60Hz ， 1024×768×60Hz ，1280×768×60Hz，1280×1024×60Hz，1600×1200×60Hz，1920×1080×60Hz
Signal Level	TMDS pwl，single pixel input，165MHz bandwidth
Standard	HDMI 1.3
USB Input	
Number of Inputs	1
Connector	Standard USB Connector
Supported Standards	Image: JPGE,BMP,PGN Audio: WMA,MP3,M4A(AAC) Video: MPEG2,MPEG3, MPEG4,H264, RM,RMVB,MOV, MJPEG, VC1,DivX,FLV
DVI Output	
Number of Inputs	1
Connector	Standard DVI-I Interface
Signal Level	TMDS pwl， 165MHz bandwidth
Supported Standards	VESA:800×600×60Hz,1024×768×60Hz,1280×768×60Hz, 1280×1024×60Hz,1440×900×60Hz,1400x1050x60,

	1920×1080×60Hz,1600x1200x60 Hz.
VGA Output	
Number of Inputs	1
Connector	Standard DB15 socket
Supported Standards	VESA:800×600×60Hz,1024×768×60Hz,1280×768×60Hz, 1280×1024×60Hz,1440×900×60Hz,1400x1050x60, 1920×1080×60Hz,1600x1200x60 Hz.
Signal Level	R、G、B、Hsync、Vsync:0 to1Vpp±3dB (0.7V Video+0.3v Sync) 75 ohm black level：300mV Sync-tip：0V
Function	
Source Switch	support quick switch between all the inputs
Yearly hardware Schedule	Support yearly, monthly, weekly and daily schedule function without PC runs to control in real time
Extras	
Communication	RS232 USB TCP/IP
Power Supply	85-264V 2A IEC-3
Working Environment	0°C~45°C
Stored Environment	10% to 90%
Product Warranty	1 year

4.0 Connectors and cables

4.1 VSP 112 connectors and signals



1,2,6,7: Gigabit copper port, connect to LED screen;

3,8: Gigabit Transmitter card power interface, not use inside case;

4,9,12: USB: No. 4 and 9 are the USB interface to control the sending card by LED studio or control software,No. 12 are the USB interface to control processor by AVDSP PC software ;

5,10: Gigabit Transmitter card DVI input，connect to DVI output of VSP 112.（This Connection does not comment hot-plugging）;

11: dial switch, more details please refer to Appendix II

13,14: Composite input interface，Composite BNC. YCbCr compatible. Used to input composite signal from DVD, Set-top box, HD player and so on （PAL, NTSC, SECAM compatible）;

15: USB input interface, used to player media files from disk with USB connect or. Such as USB disk, Portable Hard Disk

16: DVI input interface. Input the video signal from computer, DVI signal generator. Connect to the DVI 1 interface on VSP 112（This Connection does not comment hot-plugging）;

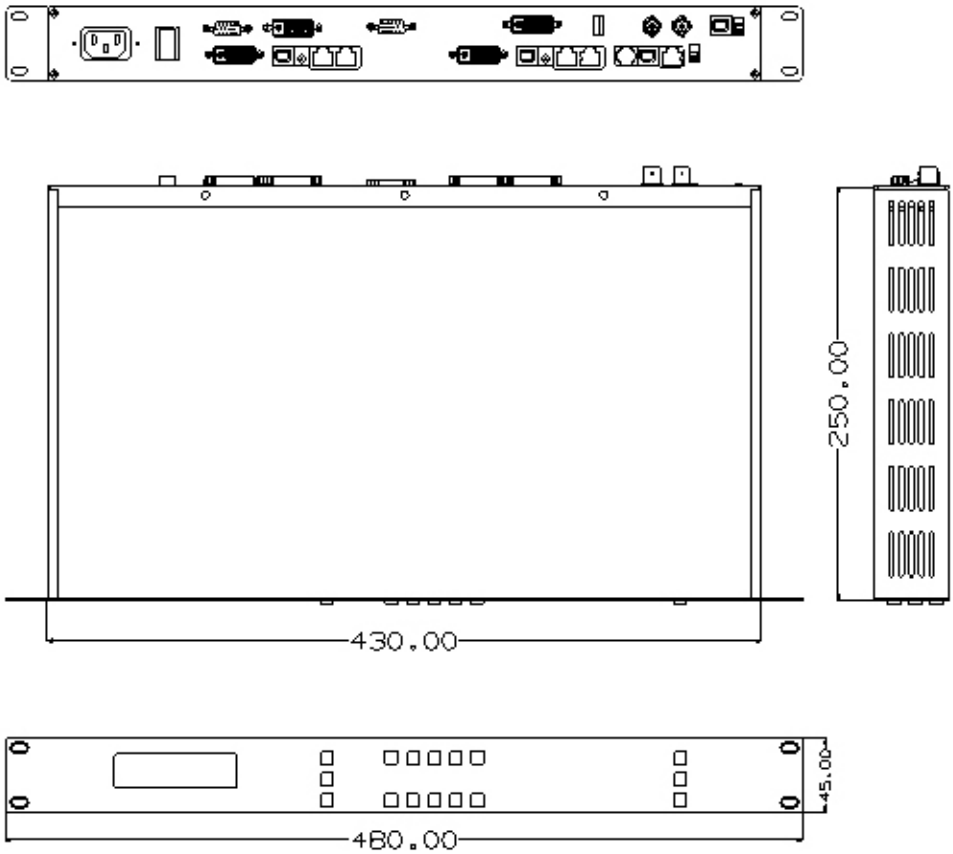
17: VGA input interface, DB-15, used to support Analog RGB input; Connect to the VGA 1 interface on the VSP 112.

18: DVI output interface. connect to the monitor or LED screen which has DVI interface. （This Connection does not comment hot-plugging）

19: VGA output interface, connect to the monitor, projector and so on；

20,21: Switch and power. It must use IEC-3 power line. Always ground to avoid electric shock.

4.2 VSP 112 Size and installation

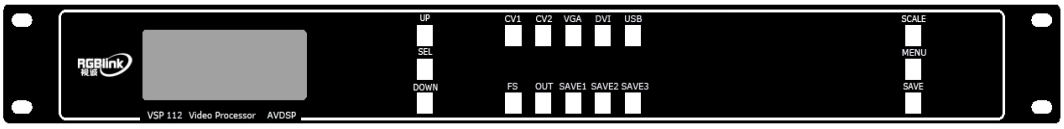


5.0 Front Panel Keyboard Operation

Insert power cord and push power button to ON position. LCD module on the front panel will show RGBLINK and go into self verification before it load the last setting config and send the processed image to the target display or device. For the first running,CV1 input is the default input source. With the front panel operation, users can operate the equipment with buttons and menu displayed on LCD module.

5.1 VSP 112 series Operator Guideline

VSP112 front panel as following:



1. LCD module ;

2. Keyboard;

SEL: Push to confirm the current choice item;

UP: Push to select up items in LCD menu;

DOWN: Push to select down in LCD menu;

CV1： Switch to composite1 input;

CV2： Switch to composite 2 input;

VGA: Switch to VGA input;

DVI: Switch to DVI input;

USB： Switch to USB input;

OUT: Push to select the output format by using the UP and DOWN.

FS： Switch to select full screen or zoom view,just for single picture mode;

SAVE1： Switch to use the user-defined mode1;

SAVE2： Switch to use the user-defined mode2;

SAVE3： Switch to use the user-defined mode3;

SCALE: Push to go to between Hsize→Vsize→HPOS→VPOS;

MENU: Push to go to main menu;including device information,recall,language and Alpha.

SAVE: Push to save current config.save1/save2/save3.

5.2 VSP 112 Video Processor Menu

System menu as follows;

Devices can be connected to the LAN network by CAT5, if not, it will prompt: DHCP Failed as shown;

When the device accesses to the network ,it will be get an IP address automatically, menu as shown:

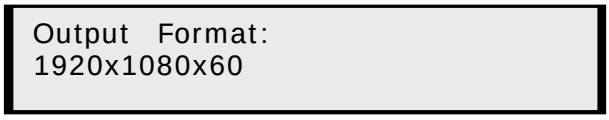
	Push【MENU】will always go to main menu

Push Menu, system main menu as shown;

Push the right and left direction key to select the left or right menu. Before the menu item, if there is a * sign, means the menu item has been selected, you can push the Sel key to enter it. The first line shows VSP112.Select Dev Info,

it shows current input signals. If there is a composite input to CV1, the NO INPUT will show as the input composite format, such as 720*576i. As shown;

Push UP/DOWN to check current output format.



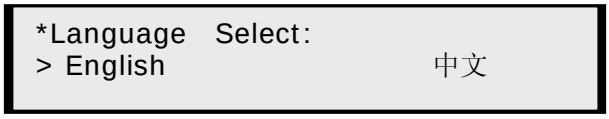
Push UP/DOWN to check current software version;

Push UP/DOWN to check current Video Processor serial number to get more available service and support;

Push UP/DOWN direction, select RECALL to recall factory reset.after successful factory reset you will see the menu as shown;

Push UP/DOWN of the Menu to set LANGUAGE and HDMI output;

Push UP/DOWN to select and enter submenu accordingly; enter LANGUAGE sub menu, as shown;



Select HDMI OUT to set DE and push UP/DOWN to choose output format. as shown;

Select to enter DE setup mode, push UP/DOWN to choose ON/OFF, SEL ON to set, which will check ON item with "*".

```
>HDMI1        DE On/Off
*ON
```

Push UP/DOWN to go to DE H Start , DE V Start, DE Width or DE Height, push UP/DOWN to change the values of them seperately;

```
>HDMI1        DE H Start
>192
```

```
>HDMI1        DE V Start
>43
```

```
>HDMI1        DE Width
>1920
```

```
>HDMI1        DE Height
>1080
```

in HDMI mode, push UP/DOWN to choose output format. as it shown;

```
>HDMI1
DE Setup      *HDMI/DVI
```

SEL to go into HDMI/DVI, push UP/DOWN to choose the output formats of HDMI/DVI.

```
>HDMI1      HDMI/DVI
*HDMI
```

Push UP/DOWN to enter main menu to setup time and calendar.

```
>VSP 112
*Time                    Calendar
```

Push SEL to set time.

```
Time
> 00:00:20
```

Push UP/DOWN direction to live time set-up. it shows * signal, the current revised will flash;

Push SEL to set Calendar, the left side shows calendar, right side shows the English Abbreviation of the day of the week.

Push UP/DOWN to active the time, it shows * signal, the the inter-flash means currently to change, push UP/DOWN to change the flashing calendar and the day of week;

Push UP/DOWN of the Menu to set Scale and Advanve;

Push SEL to set scale;

Push UP/DOWN to set coordinates.

	Or Push【Scale】to set scale

Touch UP / DOWN, find Advance in the【MENU】to do advanced split screen set;

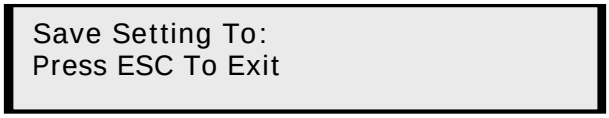
Click on SEL to enter into Advanced settings, Touch UP / DOWN to set the coordinate, width and height, as following pictures:

In the Aspect Ratio mode, the device offers 3 aspect ratio, except for above three normal modes, there are also:

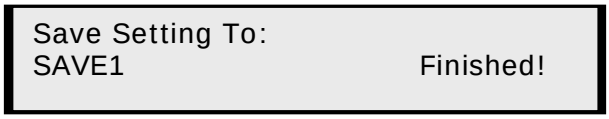
Push FS to switch between full screen and samll display size which defined by screen parameters;

Push OUT to enter output format menu; push UP/DOWN to choose different output formats, and SEL the needed output format.

Push SAVE menu, it turns SAVE1/SAVE2/SAVE3



Push Save1 to save in the save1 mode;



Save successfully and push SAVE1 to call SAVE1 user config mode;Push SAVE2 and SAVE3 to call another two seperately.

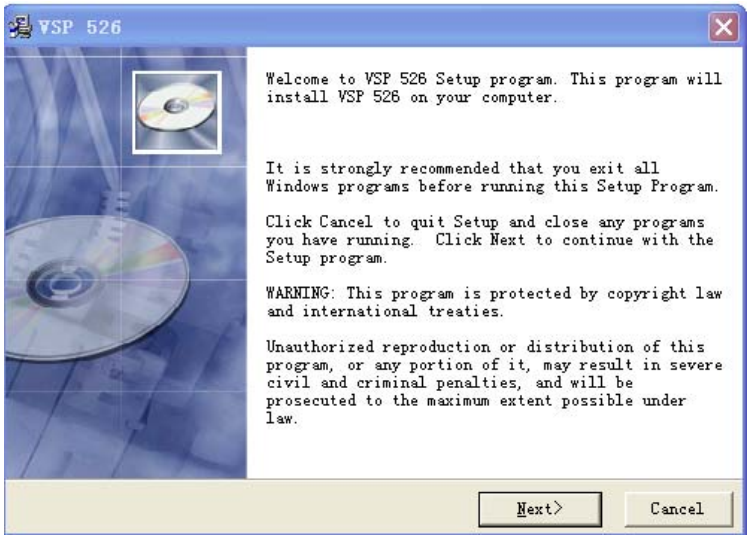
	added SAVE notice function;
	when push SAVE, all SAVE1/SAVE2/SAVE3 will light on,users should push SAVE1/SAVE2/SAVE3 to save successfully.

6.0 Communication Software Guideline

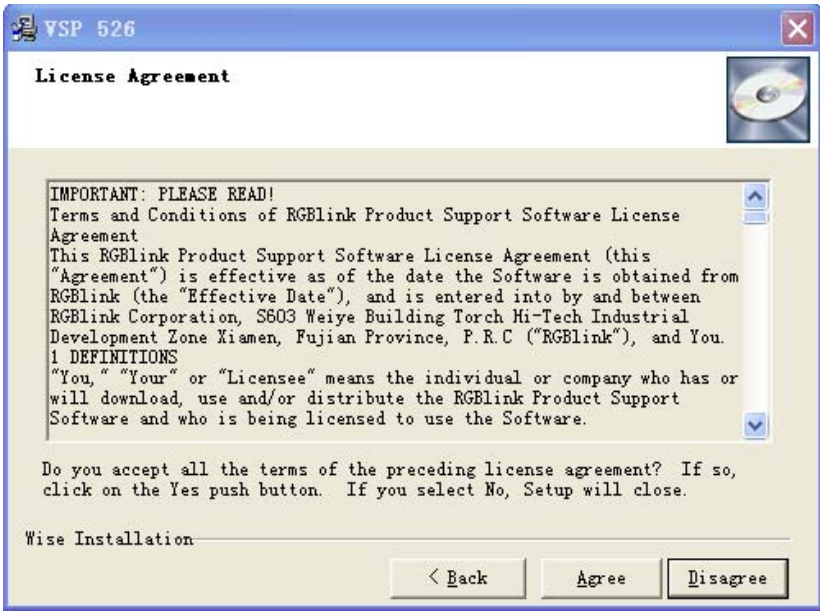
AVDSP video processor is very easy to be configured with user friendly interface, support drag and drop operation for edit and display. User can also customize with schedule function.

6.1 Install Software

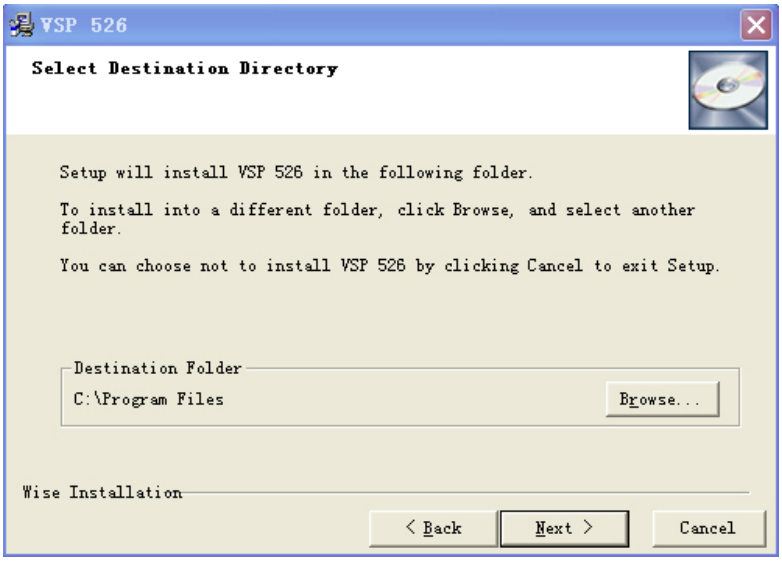
Dual click AVDSP.exe to run install, select Chinese or English version for end user，and click “select ” to go on.



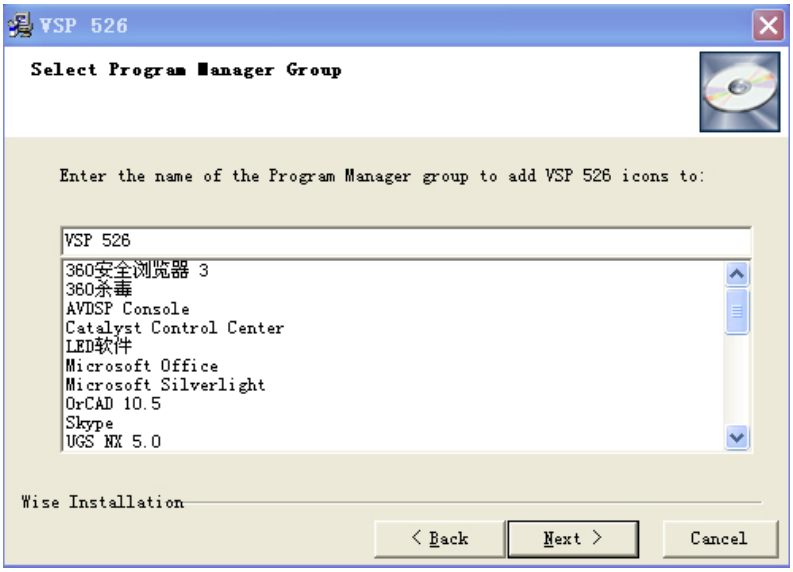
Please read carefully the license of agreement before installing VSP 112 console software, select the "Agree" to continue; select "Disagree" to quit, as shown:



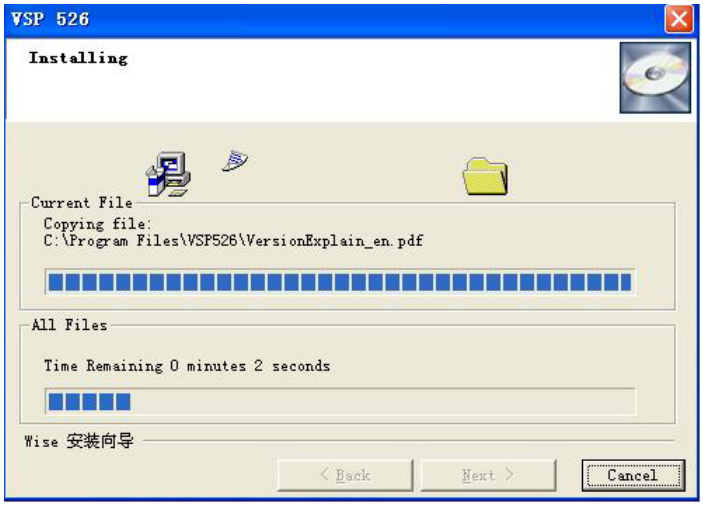
After agree to the agreement, user can select install directory in the next dialog, and click next to install software to default directory “C:\Program Files” directly.



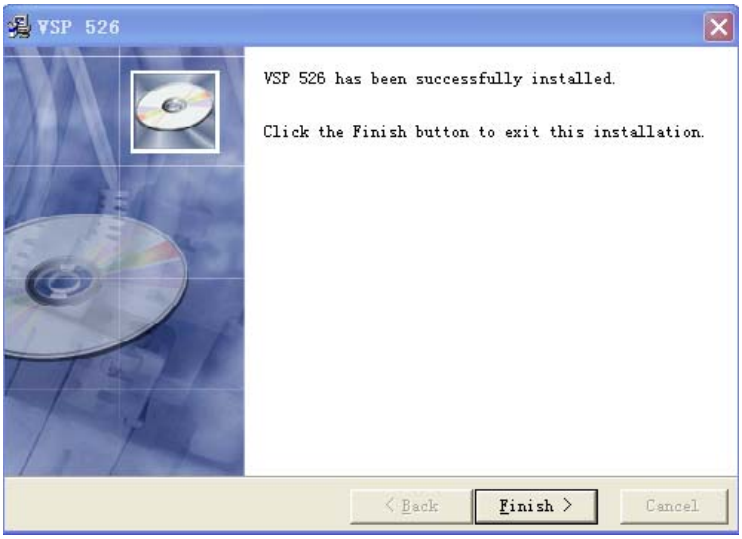
Click “next ”to go on.



Click “next ”to go on.

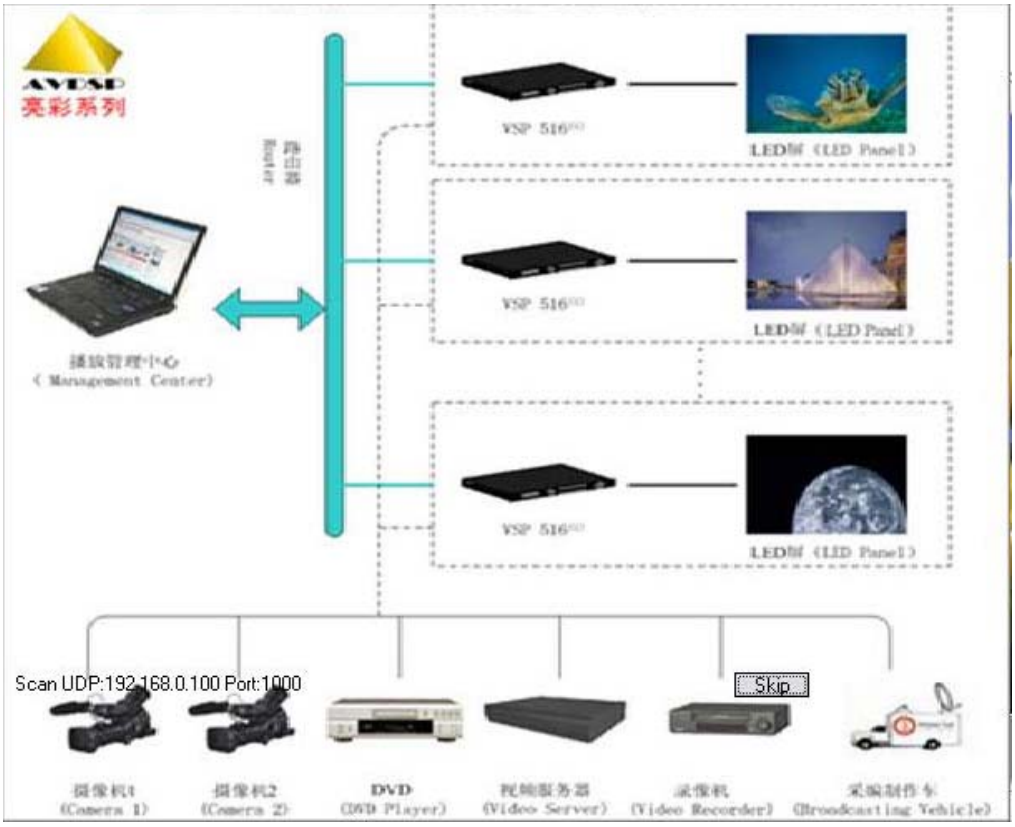


Click “finish” and ready to run AVDSP console.

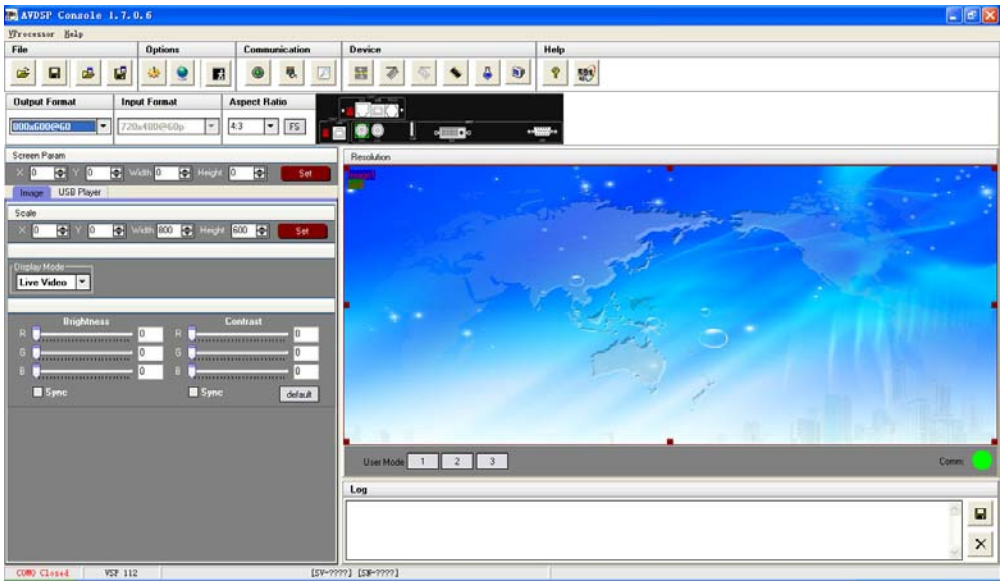


6.2 Run AVDSP Console

First run software will auto detect device in serial or networks by Comm port and pro-define IP address.



The software as following:

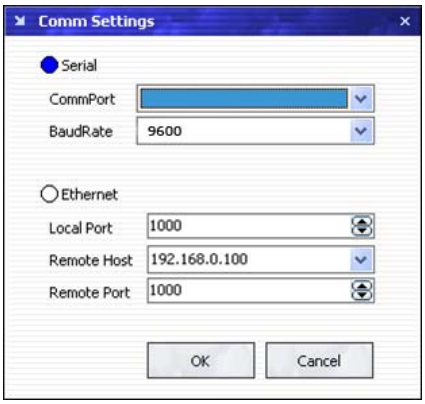


- **Setup Communication**

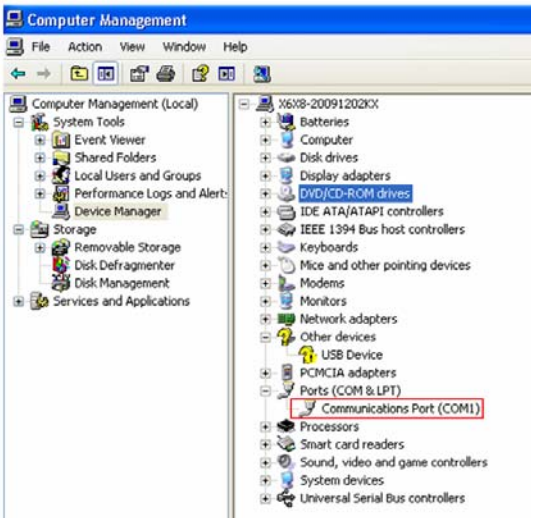
AVDSP Console support COM port or Ethernet (UDP) to access AVDSP.For the first running ,user must click the  to close COM Port. Click  to change the COM Port and the Baudrate.

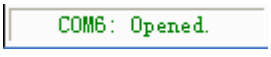
Serial: user can make choice between exist com ports and baud rates; default Baudrate is 9600.

Ethernet: user can fill any number less than 1023 in Local Port. The Remote Port must be 192.168.0.100 and the Remote Port must be 1000.



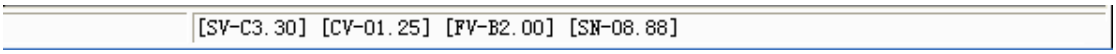
The COM Port is decided by operation system. Right click “my computer” icon on desktop, select Hardware→Device Manager in the system attributes dialog. The COM in red in the picture is the COM user can make choice.



Then click  to open COM. 

will display after success to connect the COM.

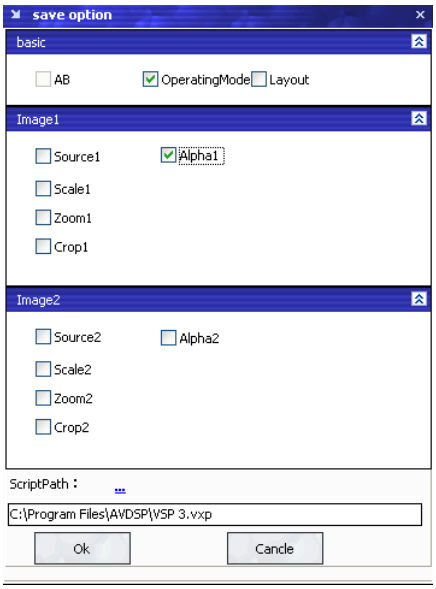
If AVDSP console success to detect device in chain, the software version, device core version, firmware version and serial number will display on the bottom right corner of the screen.



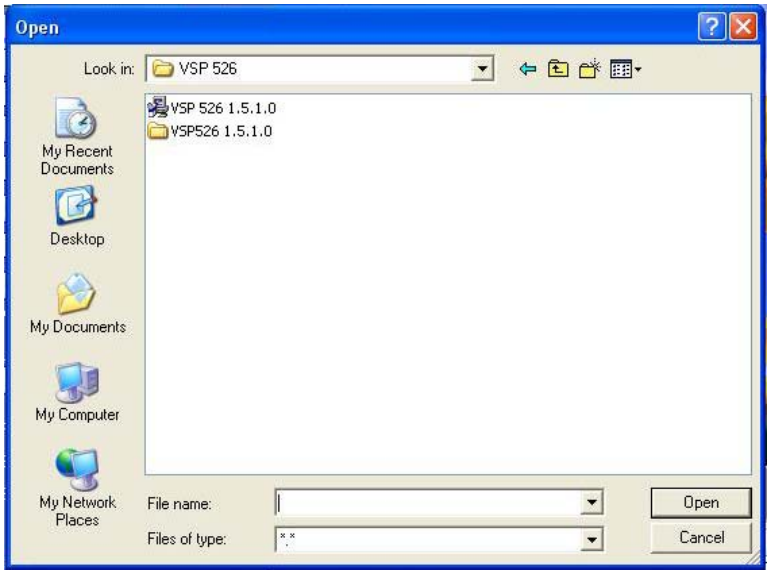
5 How to use

Operator can check parameters by software.

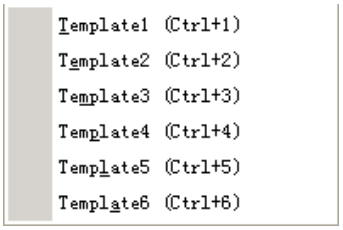
 : Save script. Save current user config parameters as script.



 : Open script. User can open saved script.



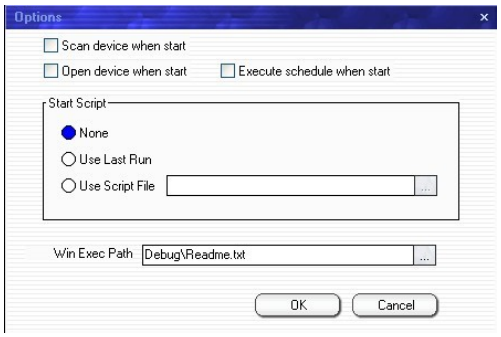
 : Import template. There are six templates for user.



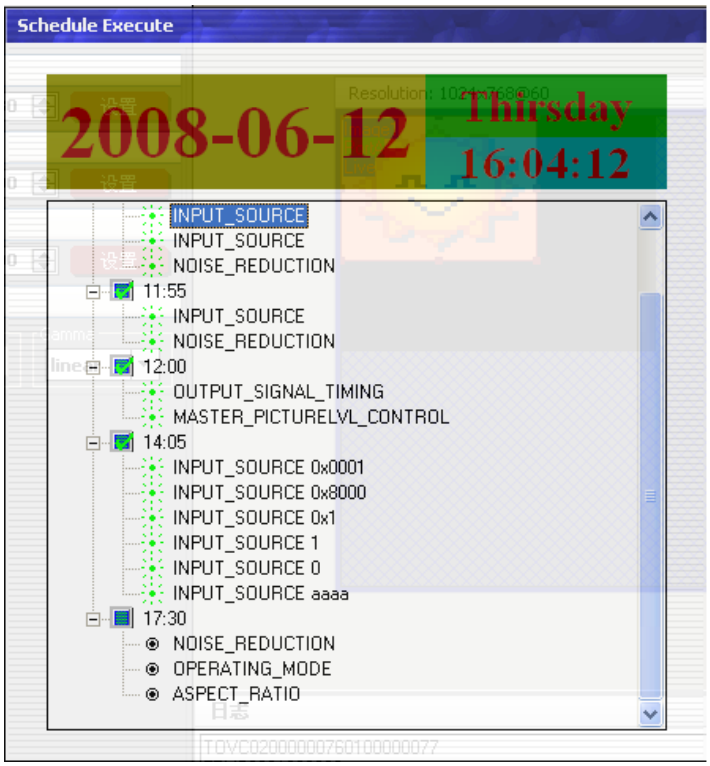
 ：Save template. Save the current config, there are six templates for user.

 ：Option. User can choose open device when start and using script saved before or execute schedule edited before when start.

If user choose open device when start, user can use last run config, use script file or none when user start. User can click  to choose which script user want to open.



If user choose execute schedule when start, the next dialogue will display when software run.



 : Language. The software supports Chinese and English version. The picture following is the Chinese dialogue.

 : Exit.

- **Communication**

 : Open COM.

 : Close COM.

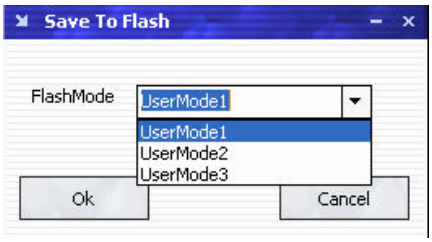
 : Set COM.

 : Search Device

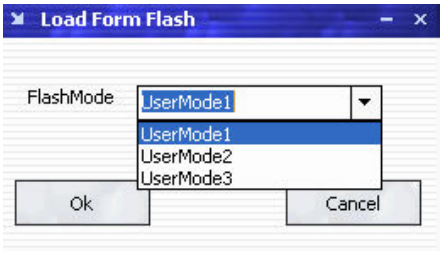
- **Device**

 : Synchronization; Click the button to synchronize setting parameters on device and PC software, as well as data for EPROM splitting mode.

 : Save to flash

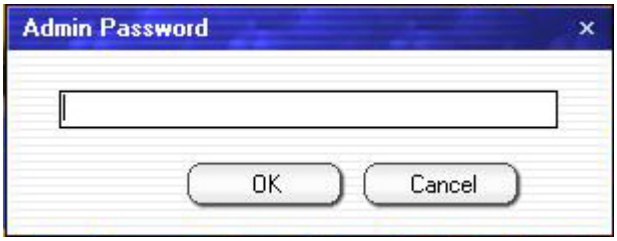


 : Load form Flash.

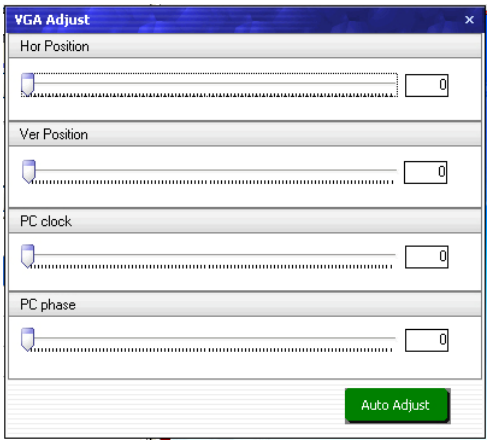


 : Factory setup；Click this button to recall the factory setting.

 : Advance, for administrator control.This is only open to Technical Engineer, please contact us to get password if needed.



 : VGA Adjust: push this button to set auto adjustment for VGA inputs

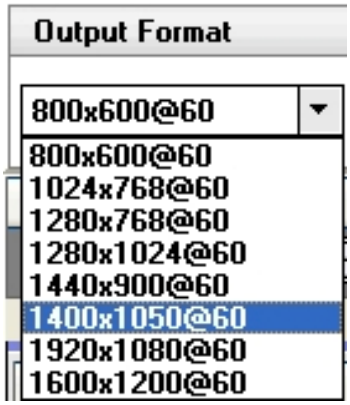


- **Help**

 : Help. Click to open helps file.

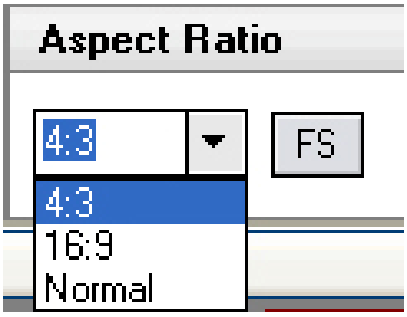
 ：About. Click to show the version number of Software and Company Contact information.

- **Output resolution:** user can choose different output resolution by selecting from pull down list.



- **Input resolution**：it will show resolution of current input source after communication finish.

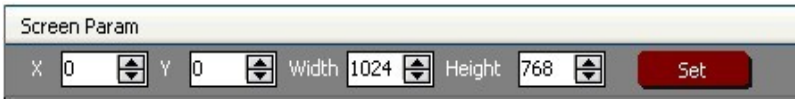
- **Aspect Ratio:** user can push pull down menu and select to switch between 4：3, 16：9 and normal；



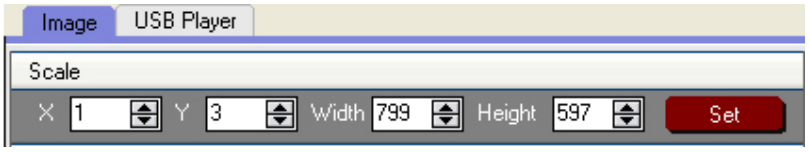
- **Input:** the white area displays the name of input interface when the mouse is over the interface picture on the left. The orange pane means current selected interface.

- **Screen parameter:**

Screen parameters are used as reference for FS function， after set the parameters, when user push FS button on the front panel or the software, the image will switch to screen parameters setting size if originally display as full screen, and switch to full screen if originally display as screen parameters settings.

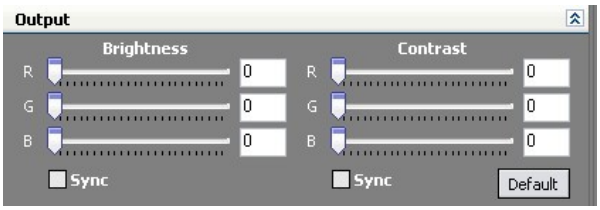


- **Images:** User can scale the images by entering the data or dragging image to zoom out. And enter data by Set button push will set Zoom and Crop. Zoom and Crop function are only valid in administrator mode.

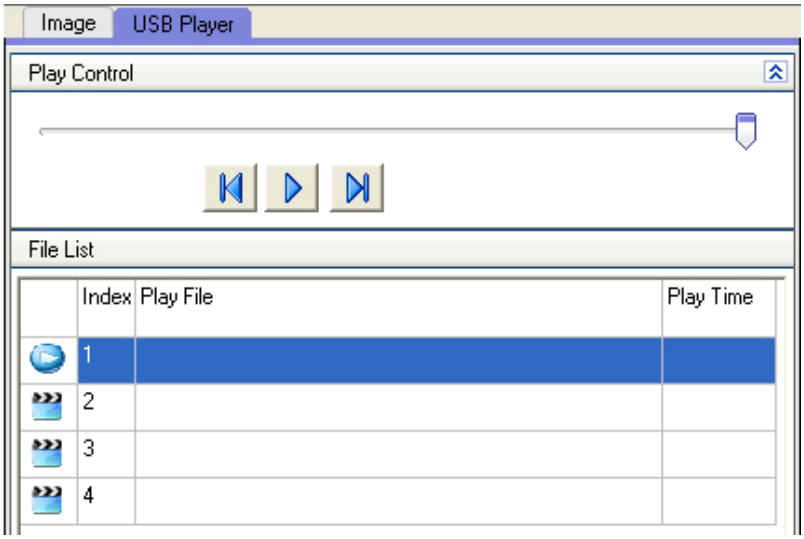


- **Display Toolbar:** there are two display modes，choose “dynamic Video” to play video normally, choose “ static current” to freeze the current frame of the video.

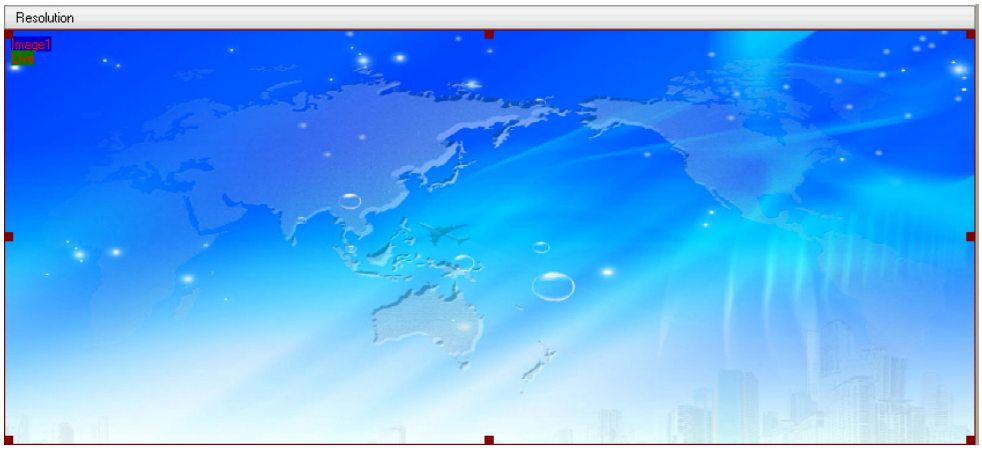
- **Output:** user can customize the brightness and the contrast.



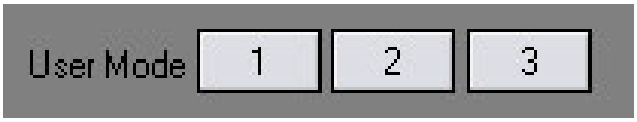
- **Media player menu:** click the files in the list can play the media files directly, and can also select the files need to play, VSP 112 will run the files according to the index value of the files. And user can schedule when to play after refer to the play time values.



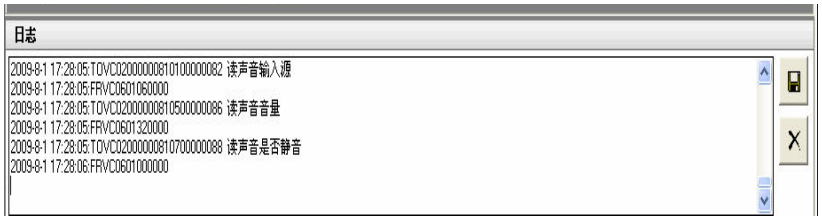
- **Display:** user can customize image or images position and size just by drag and drop image (images) in this area. This process can sync to the parameters in images toolbars.



As following，There are 1~3 user Mode for you to recall.



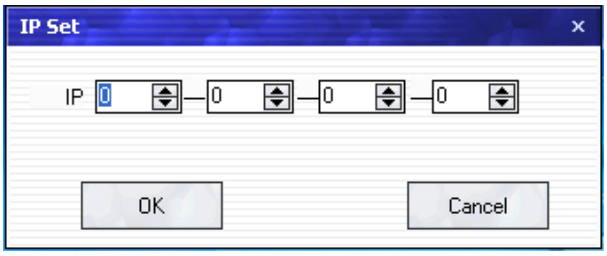
- **Log:** user can save or delete the operate log file



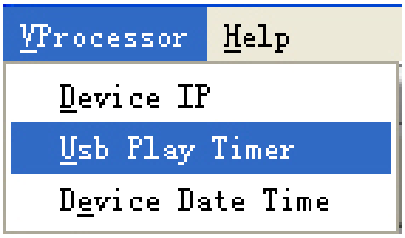
Additional functions

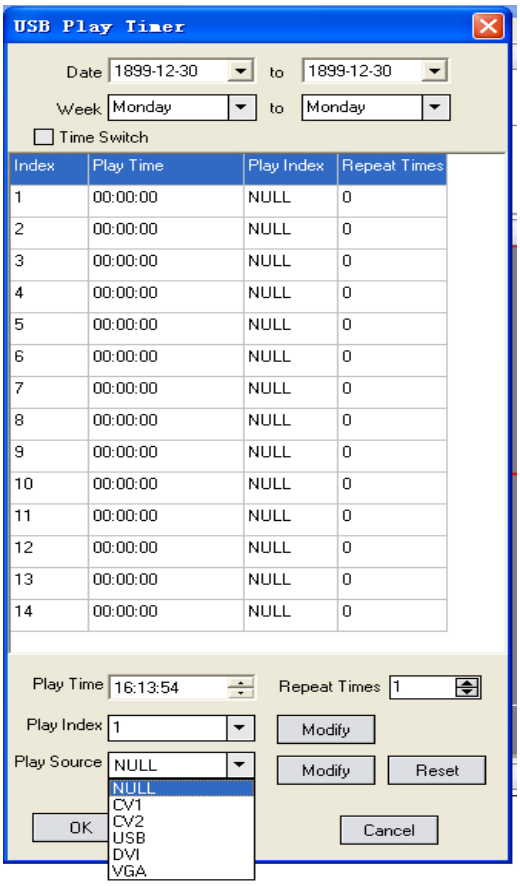
- **Device IP**

Users can set equipment IP, Usually used under the condition of one computer control or remote control several computers.



- **USB Schedule function**



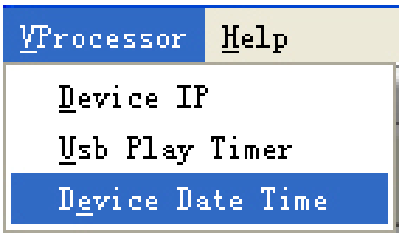


User can use “USB media player schedule setting” menu to run the source switch or media files schedule design. Now it can support max 14 schedule rules.Following is the step to design the schedule.

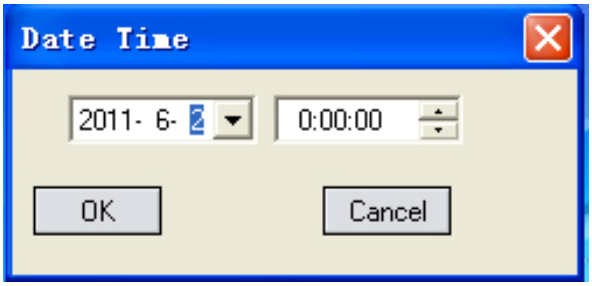
1. Set the start running date and stop running date on Date position;
2. Set the week day in Week setting position;
3. Turn on the schedule switch by check the “Time Switch”;
4. Set the play time for each file (which work by play index);
5. Set the repeat time for each file, which can be control from pull down menu or input times directly;
6. Set the input source control in Play Source position;

After setting finish, click “OK” to start to run the schedule function.

- **Device Date Time**



Remember to set the Device Date Time to the same to the local time, and after set, can check also on the front panel LCD module.
After factory reset, all schedule function need to set again.



7.0 FAQ

7.1 No output in target display

1）Check the output config of the input video

2）Check the input channel config is ok. For example. The composite 1 interface is connected to the composite interface of video source

3）Check the connection of output is ok

4）Check the target monitor or display is not destroied or power down

5）Check the output resolution of AVDSP is not out of the maximal resolution of target display

6）Any requirement ,please feel free to contact out customer service engineer

7.2 VGA input could not work with AVDSP console

1）Check input source output is ok

2）check VGA input resolution is not of AVDSP Console support list , as following the biggest input resolution is 1024*768*60Hz

3）Check AVDSP console work in VGA input mode

4）Through the automatic gain correction phase output setup menu

5）Any requirement ,please feel free to contact our customer service engineer

7.3 DVI input could not work with AVDSP

1）Check DVI source is ok

2）check DVI input resolution is not of AVDSP Console support list , as following the biggest input resolution is 1024*768*60Hz

3）Check AVDSP work in DVI input mode

4）Check the connection between AVDSP and DVI source is correct. Restart DVI sourse and check output

5）Any requirement , please feel free to contact our customer service

engineer

7.4 User settings can not save

VSP 112 supports multi config mode. For multi config mode , the equipment starts to work automatically with the SAVE1 mode .According to different equipments ,you can solve the problems that modes can't be saved by the following steps.

VSP 112

1）Comfirm to press the "SAVE"button, then press "SAVE1".or "SAVE2",or "SAVE3",that will save the current operation mode to the "user mode1""user mode2"or "user mode3" after that ,push button "SAVE1".or "SAVE2",or "SAVE3",it will call out the corresponding setting of user-mode if that the saving is successful

2）After saving process, user should not do factory reset or any saving operation to user mode 1 otherwise,"SAVE1"will be over write.

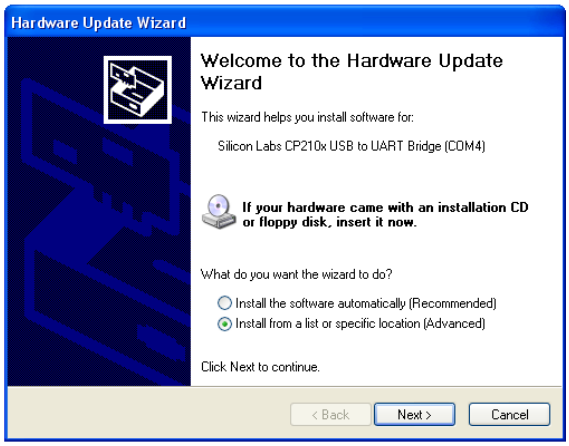
3）Recognized in the implementation of the save operation, the user is not saved for other operations again

Any requirement , please feel free to contact our customer service engneer

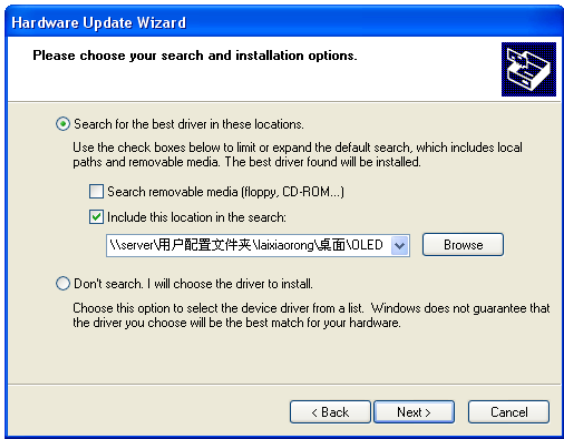
8.0 How to control processor with console by USB

1. install the driver

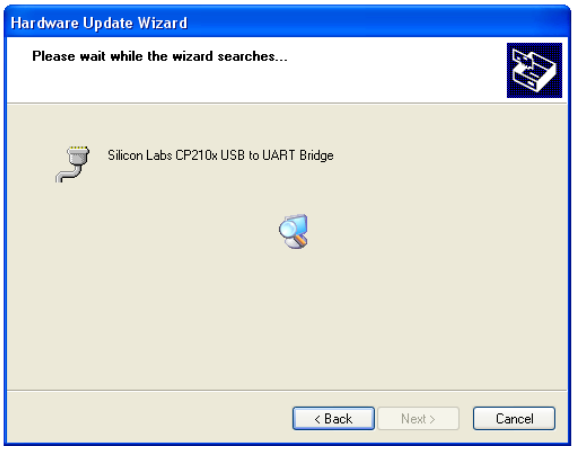
Connect the USB cable to the PC and the video processor .turn on the VSP 112,for the first time to use USB , the PC will remind finding the new hardware and ask to install the driver for this new driver



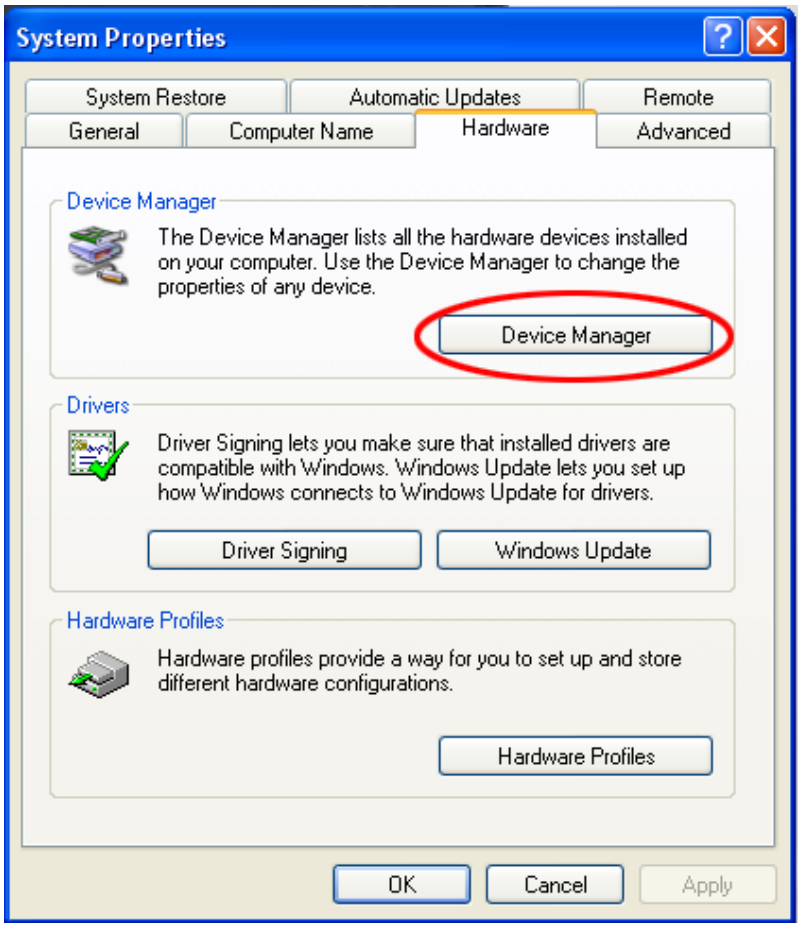
Install from the list or specified location ,press “NEXT”

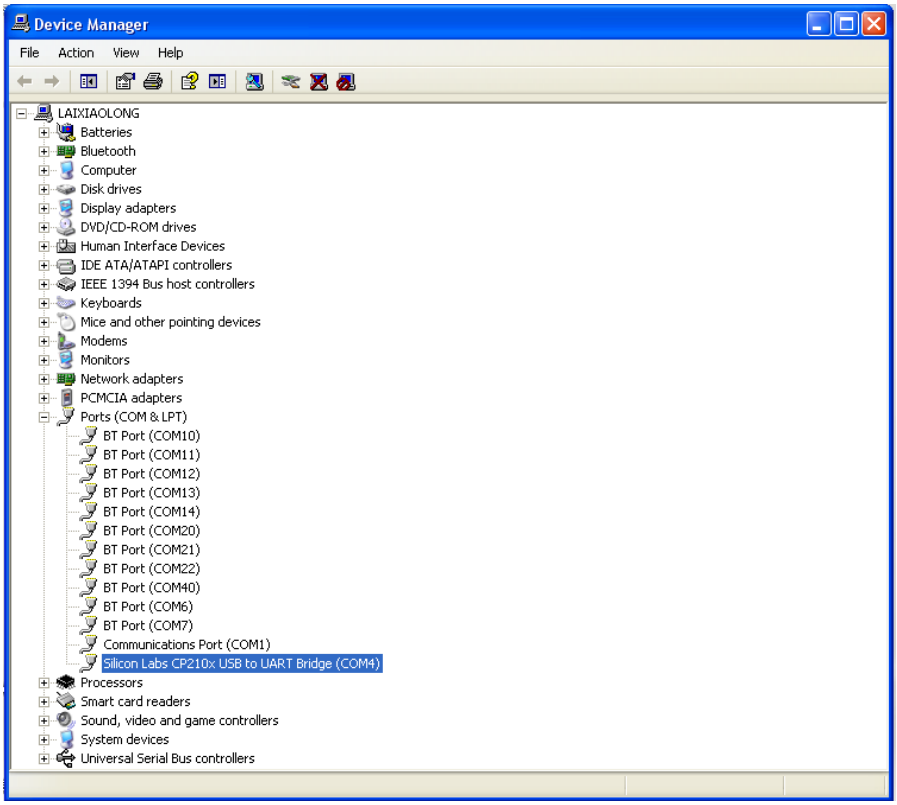


Press “browser” to find the driver, and press “NEXT”

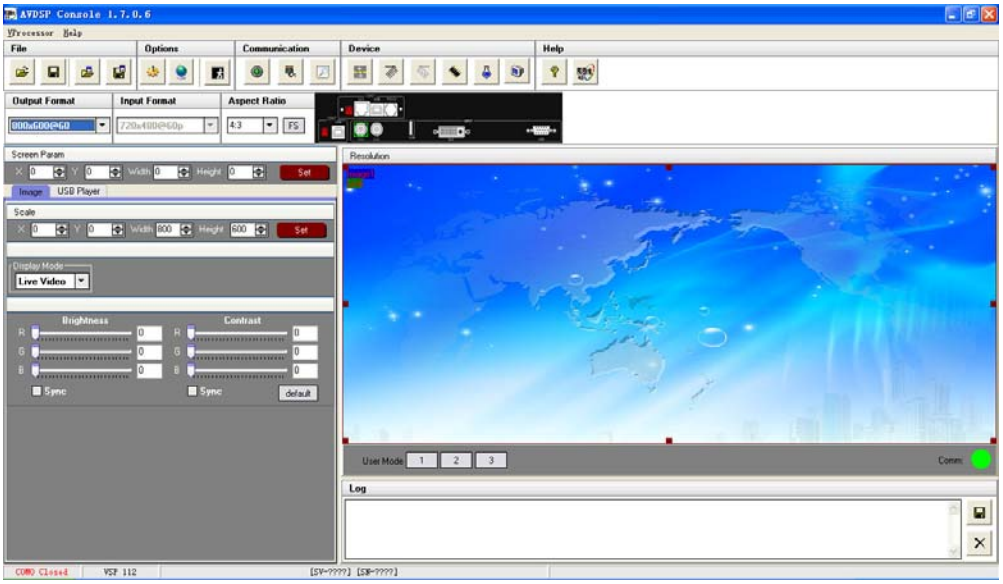


When the installation finish,can go to check the installed COM port inside the device mangement ,as following picture show”

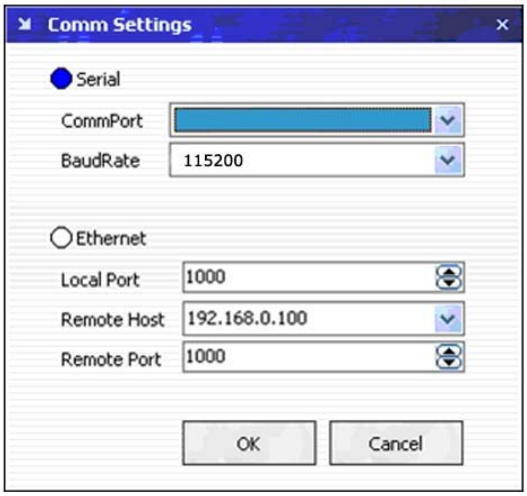




2.Install the console software, and run after install,shows the interface of the console as following



 : Set the RS232 as installed just now, and set the VSP 112 Boud Rate to be :115200



Press  to start RS232 communication, when there is green point in the right down corner showing on the sofwware, it means the communication is ok ,and you can use the software to control the device now ;

	If power off during communication,should close the port by  first , and plug in out of the USB and do communication  again

9.0 Appendix

9.1 Appendix I Download the IP sofeware

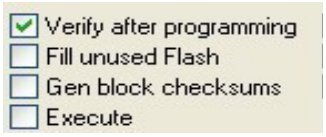
Turn off the power , take the two coding switch to “ON”sate as below :

Connect one side of the USB download line to the UBS interface on the video processor,and the other side to be connected to the UBS 2.0 interface on the PC.

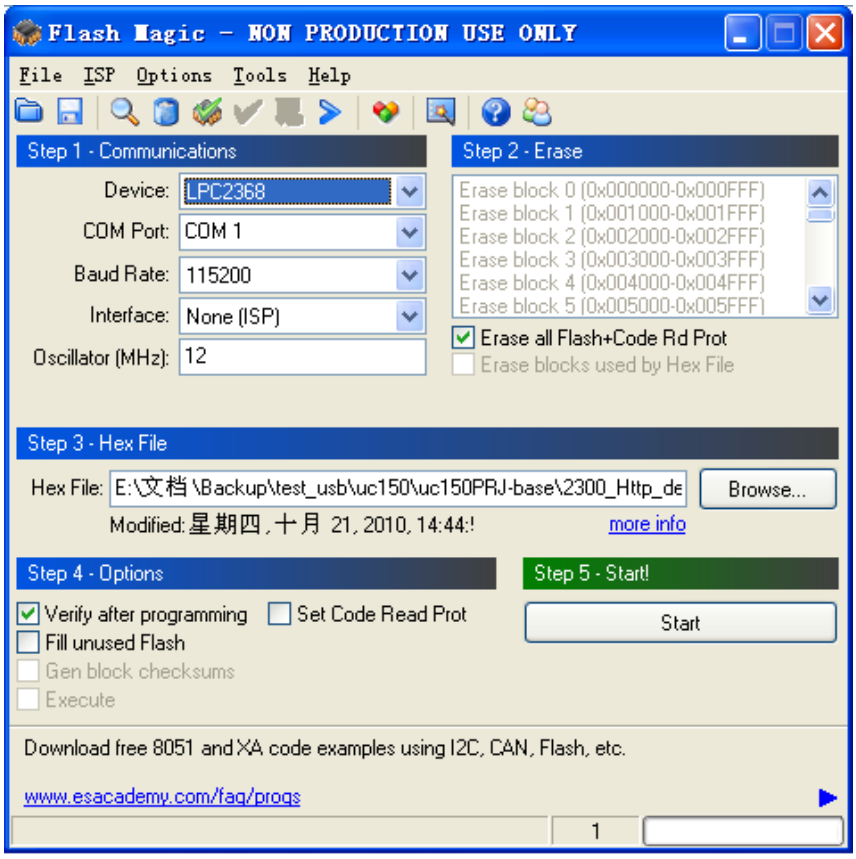
Double click 

:to run flash magic , setting as below :

First, users can choose the right serial port ,set the baud rate to 9600, choose LPC2368, and to load the aim document(hex.document)of Ipboard upgrading secondly , confirm the two option box by tick.



Finally,click the “start”button



After download , exit the program ,turn off the power ,tack the two coding switch back ,as below restart the equipment power ,check if the equipment work normally .

	Go to the link to download flash magic toolset. http://www.flashmagictool.com/download.html&d=FlashMagic.exe