

# 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!

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# 1.0 Safety

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

	<b>Power Source</b> 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.
Ð	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.



							Å	Blink	/ideo P	rocess	or Com	pare Ta	ble									
Product	RGBlink	1S			35					55												7S
Drumotour	Application Medial	LED Video Processor	101000	Vide	eo Mosaic	OCCUMM	MultiViewer	VEDE 16	VCDE166	VEDE 1 611	VEDEDE	VEDGE V	CDECCU	ienc to	ene top	EDE 10C 16	ED Video Pl	POCESSOF	200 1000	De Loco Ver	C 19BCD	Video Controller Venzoo
eratanitant Analiantian	Andiontics module	Increase in the second se	Die 764	Darbel	Docted Parted	Inter-1	Dec 1919	VJC JCV	COTO-JOA	LINE LINE LINE	a lletoni bouit	VOPJ2203	Dambed	A OLUTO	A GOLUTO	A DOLUTO	Dotolo					VOP / US
Application	Application Indexet Composite	MUDIIE LEU & FIX IIISUOII X2	-	- Hellia	-	Module	Module		EX3			EX	X3	X3	X3	X3	X3	Kellua ×3	X3	X3	×3	X6 X6
	Svideo			.		,	,	×1	×1	×ī×	×1	×1	×1	×	1×	×1	×1	×1	1×	×1	×1	×2
	VCbCr			.		- Module	,	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×2
	VPbPr ent (en Alo Committelo)						-		;					×1		×1	×1	×1		×1	×1	5
Input .	DVI (SU/HU CUMPANDIE)		' X	- 1×		Module	AIINNOM -		TY			Tv	- ×2	- 1X	×1 ×1	- ×1	- 1×	×1 ×1	×1	- 1X	×1 ×1	75
	IMOH	×1			×2			×1	×1	×1	×1	×1	×1			×2		×2		×2	×2	×2
	VGA	×1	×I	.		Module		×1	×1	×1	×1	×1	×2	×1	1×	×1	×1	×1	×1	×1	×1	×2
	USB	×1			,						×1	×1	×1									
	Audio			,	1			×5	×5	×5	×4	+×	×4		,	,					,	×2
-	Composite		•												•	•						
	YCbCr										,										,	
	VPbPr																					
Output	SDI (SD/HD Compatible)										,	,			×1(loop)	,		<1(loop) >	×1(loop)	×	1(loop)	
	VGA	×1			1	Module		×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1
	DVI	×1	×2	+×	5×	Module	,	×1	×1	×1	×1	×1	E×	×1	×1	×1	×1	×1	×1	×1	×1	×1
	IMOH		'		2		×	, .	, .			, .	, .		,	,	×1		×1	×1	×1	×1
	Audio		'	·	1		- -	-	10	+		-	7		-	-	- 100	- 100	- 1-0		- 1-0	1
	Motion Compensation	Good	•	•		5	Good	Good	Good	6000	Good	Good	Good	, 600d	, Good	, Good	, 600d	, Good	, 600d	, 600d	, Cood	Good
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	Video Processina Bits	., 108it	10Bit	8Bit	10Bit	10Bit	10Bit	, 10Bit	, 10Bit	4 10Bit	10Bit	10Bit	10Bit	, 10Bit	10Bit	10Bit	4 10Bit	10Bit	4 10Bit	4 10Bit	10Bit	, 108it
	Picture In Picture				7		7	7	1	+			1	1	7	-	P	7	1	1	1	Ţ
	Quad Picture			,		~	· *				,	,	,			,						4
	Multi Picture	, .	•	•	'	~	~	, .			, ,	, ,	, .	, .	, .	, .	, .	, .	, .	, .	, ,	
	Brinhtnacc	+	.   .			.   .			-	* *	,	,	, ,	, ,	~ ~	-		* `	+ 1	+ 1	, ,	, ,
	Contrast	-			-					* *				, 1	, ,	, ,	. 7	, ,		, r		, ,
	Timing Schedule	1						-			-	. ~		. 1				,				
	LOGO Overlay			.	7		7						7	7		~	~	~	-	1	+	
	Subtitle Overlay				7	-	7	,					1	4	1	1	4	4	1	1	1	
	Pixel Based Scale	1				~	~	7	1	+	7	-	7	1	7	7	1	1	1	t t	ł	Ţ
	Video Mosaic		+	+	ŗ	~	~				,	,	~			,						
	Video Overlay	'	•	·	. *.		~	~	-	*	-	-	~	*	~	~	+	~	+	*	~	ž
	Video Evohande				,				,		-	-			-	- - -					, ,	,
Function	Video Copy										, ,	, ,					,	,			. ~	* ,*
Carvica	Refresh Rate	60H2	2H09	60Hz	60Hz	60Hz	60H2	60Hz	60Hz	60Hz, 75Hz	60Hz	60Hz	60Hz 5	0Hz-85Hz 5	50H2-85H2 5	70H2-85H2 51	0H2-85H2 5I	0Hz-85Hz 5	50H2-85H2 51	0Hz-85Hz 50	IH2-85H2	50H2-85H2
	Output Resolution(Single Part)	1920×1080	1920×1080	1440×900	1920×1080	1920×1080	1920×1080	1280×1024	1280×1024	1920×1080	1920×1080	1920×1080 1	920×1080 2	048×1152 2	048×1152 2	048×1152 21	048×1152 20	048×1152 21	048×1152 20	)48×1152 20	48×1152	2048×1152
	Digital Clock	*	2	·	- 2		<u>'</u>	-	+	+	~	~	7	ł	~	~	+	*	+	+	7	×
	Remote Control Interface	USB	232+USB+T CP/IP	Mini DIP	232+USB+TCP/I P	RS 232+TCP/IP	RS232+TCP/IP	RS232+USB+ TCP/IP	RS232+USB+T   CP/IP	RS232+USB+TC	RS232+USB+T R CP/IP	S232+USB+T RS CP/IP	232+USB+T R5 CP/IP	232+USB+T RS CP/IP	232+USB+T RE CP/IP	5232+USB+ RS TCP/IP	232+USB+ RS2 TCP/IP	232+USB+T RS CP/IP	5232+USB+ RS TCP/IP	232+USB+ RS23 TCP/IP	32+USB+TC P/IP	RS232+USB+TCP/IP
	Control Software	1	-	1	r	~	7	7	r	1	1	1	1	1	7	7	4	1	+	1	+	7
	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 1	32 button + 3: LCD Module LL	2 button + 3 5D Module L	2 butten + 3: CD Medule L	2 button + 3: CD Module L(	2 button + 35 CD Module LC	2 button + 32 CD Module LC	2 button + 32 CD Module L(	2 button + 32 CD Module LC	button + 32 D Module LC	button + 32 D Module	: button + LCD Module
	Outlet	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry	Industry 1	Industry	Industry	Industry	industry 1	ndustry	Industry
	Standard 1 Unit	+			1	<u>_</u>	-	7	7	+	7	~	7	1	7	7	r	+	1	+	+	4
	Standard 3 Unit					~	'		•		,	,									,	
	Standard 8 Unit		•	•	1	~		'	•	•		,				,				,	,	1
	Standard 12 Unit	- 10	- 180	-	- 10	7 E11-(C)		10	- 10	- 18	- 10			- 10	- 2	- 120		- 10		- 100	- 10	- 100
	Warranty	ZNJ 1 Year	1 Year	1 Year	2Ky 1 Year	5.5kg(5)	1 Vear	2NJ 1 Year	2Ny 1 Year	zky 1 Year	2Ny 1 Vear	zky 1 Vear	4Ny 1 Vear	zNy 1 Year	dNy 1 Vear	1 Vear	zky 1 Vear	zky 1 Vear	zky 1 Year	zky 1 Vear	2Ny 1 Vear	2Ky 1 Vear
	CE Certification	4	+	+	r	~	r	r	1	+	1	1	1	+	7	1	1	ł	1	1	1	7
	FCC Certfication	t	+	7	r	~	7	~	*	+	~	~	7	1	7	~	+	+	-	+	+	1
	RoHS Certification	7	1	~	~	~	~	+	+	+	~	~	~	+	- +	~	+	+	-	+	7	~

# 3.0 Parameters

Composite BNC	Input
Number of Inputs	2
Supported	PAL/NTSC
Standards	
Signal Level	1Vpp±3db (0.7V Video+0.3v Sync) 75 ohm
Number of Inputs	480i,576i
VGA DB15 Inpu	Jt
Number of Inputs	1
Connector	Standard DB15 socket
Supported	VGA-UXGA
Standards	
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	VGA-UXGA (800*600@60, 1024*768@60, 1280*1024@60,
Standards	1440*900@60,1600*1200@60)
DVI Input	
Number of Inputs	1
Connector	Standard DVI-I socket
Supported	SMPTE : 625/25 PAL, 525/29.97 NTSC, 625/50p PAL,
Resolution	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	Image: JPGE,BMP,PGN
Standards	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	VESA: 800×600×60Hz, 1024×768×60Hz, 1280×768×60Hz,
Standards	1280×1024×60Hz,1440×900×60Hz,1400x1050x60,



	1920×1080×60Hz,1600x1200x60 Hz.				
VGA Output					
Number of Inputs	1				
Connector	Standard DB15 socket				
Supported	VESA: 800×600×60Hz, 1024×768×60Hz, 1280×768×60Hz,				
Standards	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	Support yearly, monthly, weekly and daily schedule				
Schedule	function without PC runs to control in real time				
Extras					
Communication	RS232 USB TCP/IP				
Power Supply 85-264V 2A IEC-3					
Working	0°C~45°C				
Environment					
Stored	10% to 90%				
Environment					
Product Warranty	1 year				



# 4.0 Connectors and cables



#### 4.1 VSP 112 connectors and signals



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 $\rightarrow$ Vsize $\rightarrow$ HPOS $\rightarrow$ VPOS;



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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;

DHCP Failed

When the device accesses to the network ,it will be get an IP address

automatically, menu as shown:





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,



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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;

> INPUT: CV1 NO INPUT

Push UP/DOWN to check current output format.

Output Format: 1920x1080x60

Push UP/DOWN to check current software version;

Software Version 1.0

Push UP/DOWN to check current Video Processor serial number to get more

available service and support;

RGBlink > SN: J0004

Push UP/DOWN direction, select RECALL to recall factory reset.after successful

factory reset you will see the menu as shown;

**Reset Finished!** 

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

>VSP 112	
*Language	HDMI OUT

Push UP/DOWN to select and enter submenu accordingly; enter LANGUAGE

sub menu, as shown;

\*Language Select: 中文 > English

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

> >HDMI1 \*DE Setup HDMI/DVI



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 >192	DE H Start
>HDMI1 >43	DE V Start
>HDMI1 >1920	DE Width
>HDMI1 >1080	DE Height

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	HDMI/DVI	

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;



Time \*00:00:20

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

Calendar	
>2010/01/01	Fri

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;

Calendar *2010/01/01	Fri

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

>VSP 112 * Scale	Advanve
>VSP 112 * Scale	Advanve

Push SEL to set scale;

Scale A Pos X: >0	
Scale A Pos Y: >0	

Push UP/DOWN to set coordinates.

Scale A Width: >1920	
Scale A Height: >1080	

1	Or Push [Scale] to set scale
---	------------------------------

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



>VSP 112 Scale \*Advanve

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

Screen Pos X: >0
Screen Pos Y: >0
Screen Width:
>1920
Screen Height:
>1080

In the Aspect Ratio mode, the device offers 3 aspect ratio, except for above

three normal modes, there are also:

Aspect Ratio: *4:3	
Aspect Ratio: *16:9	

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

Picture Mode Full Size	
Picture Mode Screen Size	

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

Output Format: >1920x1080x60



Push SAVE menu, it turns SAVE1/SAVE2/SAVE3

Save Setting To: Press ESC To Exit

Push Save1 to save in the save1 mode;

Save Setting To: SAVE1 Finished!

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:



RGBlink 视诚 VSP 1 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.

∰ VSP 526 🛛 🔀
Select Destination Directory
Setup will install VSP 526 in the following folder.
To install into a different folder, click Browse, and select another folder.
You can choose not to install VSP 526 by clicking Cancel to exit Setup.
Destination Folder
C:\Program Files Browse
Wise Installation
< <u>B</u> ack <u>N</u> ext > Cancel

Click "next "to go on.

∦VSP 526 Select Program Manager Group			6
Enter the name of the Program M	lanager group to	add VSP 526 icor	ns to:
VSP 526 360安全浏览器 3 360杀毒 AVDSP Console Catalyst Control Center LED软件 Microsoft Office Microsoft Silverlight			
OrCAD 10.5 Skype VGS NX 5.0			~
UGS NX 5.0 Wise Installation	( Book	Turk \	Correct

Click "next "to go on.





SP 526 Installing				
Current File Copying file: C:\Program Files\V	Ø SP526\VersionExplai	n_en. pdf		
All Files Time Remaining O m	inutes 2 seconds			
lise 安装向导	< <u>B</u> a	ck	Next >	Cancel

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.

CommPort		*
BaudRate [	9600	*
Local Port	1000	۲
Remote Host	192.168.0.100	~
Remote Port	1000	۲

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



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.

[SV-C3.30] [CV-01.25] [FV-B2.00] [SN-08.88]

5 How to use

Operator can check parameters by software.

Save script. Save current user config parameters as script.

¥ save option	A CONTRACTOR	×
basic		*
AB	OperatingMode Layout	
Image1		*
Source1	Alpha1	
Scale1		
Zoom1		
Crop1		
Image2		8
Source2	Alpha2	
Scale2		
Zoom2		
Crop2		
ScriptPath :	4	
C:\Program Files\AV	DSP\VSP 3.vxp	
Ok	Cancle	

**2** 

Open script. User can open saved script.



1

**RGBlink** 视诚

: Import template. There are six templates for user.

<u>T</u> emplate1	(Ctrl+1)
T <u>e</u> mplate2	(Ctrl+2)
Te <u>m</u> plate3	(Ctrl+3)
Tem <u>p</u> late4	(Ctrl+4)
Temp <u>l</u> ate5	(Ctrl+5)
Templ <u>a</u> te6	(Ctrl+6)



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

user.

<u>S</u>ave Template1 S<u>a</u>ve Template2 Sa<u>v</u>e Template3 Sav<u>e</u> Template4 Save <u>T</u>emplate5 Save Te<u>m</u>plate6

. 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.

Start Script-		
🔵 None		
🔿 Use Last Run		
O Use Script File		

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.







: 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



FlashMode	UserMode1		•
	UserMode1 UserMode2 UserMode3		
Ok		Can	ce



Load form Flash.

Load For	n Flash	·
FlashMode	UserMode1	<b>•</b>
	UserMode1 UserMode2 UserMode3	
Ok		Cancel



: 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.

sword				×
( ок		Cancel	)	
	sword	sword	sword	sword

۲

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

VGA Adjust ×
Hor Position
Ver Position
PC clock
PC phase
Auto Adjust

Help

Help. Click to open helps file. Ŷ



EXAMPLE: 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.

Output Format	
800x600@60	-
800x600@60	_
1024x768@60	
1280x768@60	
1280x1024@60	
1440x900@60	
1400x1050@60	
1920x1080@60	
1600x1200@60	

• Input resolution: it will show resolution of current input source after

communication finish.

Input Format	
720x480@60p	•

- 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.

. °	••••••••••••••••••••••••••••••••••••••	NSA NO



#### • 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.

Ima	ge (	USB Player							
Scale	,								
× [	1	🗲 Y 3	\$ Width	799	\$ Height	597	\$	Set	

• **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.

Output			*
Brightness	<u></u>	Contrast	
R	0 R		0
G 🗍	0 G		- 0
в	ОВ		- 0
Sync		Sync	Default

 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.



Ima	ge	USB Player					
Play	Play Control						
			0				
File L	File List						
	Index	Play File	Play Time				
٢	1						
>>>	2						
>>>	3						
222	4						

• **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

日志	
2009-8-1 17-28-05-TOVC02000000010100000002 读声音输入源 2009-8-1 17-28-05-FFVC0601060000 2009-8-1 17-28-05-FFVC0601320000 2009-8-1 17-28-05-FFVC0601320000 2009-8-1 17-28-05-FFVC06010000008 读声音是否静音 2009-8-1 17-28-06-FFVC0601000000	



#### Additional functions

Device IP



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

IP Set	×
IP 🚺 🖨 — 0 🔿 — 0	
ОК	Cancel

• USB Schedule function





USB PI	lay Timer		$\mathbf{X}$				
D. We	ate 1899-12-30 _	<ul> <li>to 185</li> <li>to Mor</li> </ul>	19-12-30 💌 nday 💌				
Time Switch							
Index	Play Time	Play Index	Repeat Times				
1	00:00:00	NULL	0				
2	00:00:00	NULL	0				
3	00:00:00	NULL	0				
4	00:00:00	NULL	0				
5	00:00:00	NULL	0				
6	00:00:00	NULL	0				
7	00:00:00	NULL	0				
8	00:00:00	NULL	0				
9	00:00:00	NULL	0				
10	00:00:00	NULL	0				
11	00:00:00	NULL	0				
12	00:00:00	NULL	0				
13	00:00:00	NULL	0				
14	00:00:00	NULL	0				
Play Ti	ime 16:13:54	Repeat	Times 1 🚔				
Play Inc	Play Index 1 👻 Modify						
Play Source NULL   Modify Beset							
	NULL						
0	K CV2		Cancel				

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.

Date Time	×
2011- 6- 💈 💌 0:00:00 🔹	
OK Cancel	



# 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
- 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
- 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"

System Properties					
System Restore Automatic Updates Remote General Computer Name Hardware Advanced					
Device Manager The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device. Device Manager					
Drivers         Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.         Driver Signing       Windows Update         Driver Signing       Windows Update					
Hardware Profiles Hardware profiles provide a way for you to set up and store different hardware configurations.					
Hardware Profiles					
OK Cancel Apply					



🖴 Device Manager	
File Action View Help	
Batteries	
Buetooth	
🗄 – 😼 Computer	
🗈 🐨 Disk drives	
🗈 💆 Display adapters	
E Star DVD/CD-ROM drives	
E Human Interface Devices	
DE ATA/ATAPI controllers	
ELE 1394 bus host controllers	
ter Skeyboards	
Image Network adapters	
PCMCIA adapters	
🗄 🚽 Ports (COM & LPT)	
BT Port (COM10)	
- Z BT Port (COM11)	
BT Port (COM12)	
BT Port (COM13)	
B Port (COM14)	
B Prot (CON20)	
BI Port (COM40)	
BI Port (COM6)	
BT Port (COM7)	
Gommunications Port (COM1)	
Silicon Labs CP210x USB to UART Bridge (COM4)	
Processors	
🗄 🍓 Smart card readers	
🗄 🐏 Sound, video and game controllers	
🗄 👷 System devices	
🗄 😋 Universal Serial Bus controllers	

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

AVDSP Console 1.7	7.0.6				E 2 🛛
Trocessor Help		1000 - 100 - 100	2.557	222292	
File	Options	Communication	Device	Help	
📽 🖬 🍰 😫	1 🧶 👤 🖬		8 8 8 8 8 8	P 399	
Output Format 1	Input Format	Aspect Ratio	- 107 N		
000x600@60	720x480@60p	4.3 • F5			
Screen Param	a supervision of the		Resolution		
Noge USB Player	With 0 💽 Height	0 🔄 Set			
Scale × 0 • Y 0 •	Width 800 💽 Height	600 💽 Set			
Diplay Mode			- Frank	25	
Brightness R U	- 0 R .	Contrast 0		1 2 3 -	A Million
8 U	- 0 8 .	0 default		and the	- John
			and the second sec		port division
			User Mode 1 2 3		Comm.
			Log		
					×
COMO Closed VSF	112	[SV-777	7] [58-7777]		

console as following

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



CommPort		~
BaudRate	115200	~
Local Port	1000	
Remote Host	192.168.0.100	*
Remote Port	1000	۲

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





# 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 Flash Magic : 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.

Erase all Flash+Security+Clks Erase blocks used by Hex File

Verify after programming
Fill unused Flash
Gen block checksums
Execute

Finally, click the "start" button



🏀 Flash Magic - NON PRODUCTION USE ONLY							
<u>F</u> ile <u>I</u> SP <u>O</u> ptions <u>T</u> ools <u>H</u> elp							
🖻 🔂 🔍 🗿 🐗 🖌 📕 🔈 😻 國 🚱 😂							
Step 1 - Communications Step 2 - Erase							
Device:	LPC2368 🗸	Erase block 0 (0x000000-0x000FFF)	^				
COM Port:	СОМ 1 🗸 🗸	Erase block 1 (0x001000-0x001FFF) Erase block 2 (0x002000-0x002FFF)					
Baud Rate:	115200 💌	Erase block 3 (0x003000-0x003FFF) Erase block 4 (0x004000-0x004FFF)					
Interface:	None (ISP) 🛛 🗸	Erase block 5 (0x005000-0x005FFF)	<b>×</b>				
Oscillator (MHz):	12	Erase blocks used by Hex File					
Step 3 - Hex File Hex File: E:\文档\Backup\test_usb\uc150\uc150PRJ-base\2300_Http_d∉ Browse Modified:星期四,十月 21, 2010, 14:44:! more info							
Step 4 - Options		Step 5 - Start!					
<ul> <li>✓ Verify after programming Set Code Read Prot</li> <li>Fill unused Flash</li> <li>Gen block checksums</li> <li>Execute</li> </ul>							
Download free 8051 and XA code examples using I2C, CAN, Flash, etc.							
www.esacademy.com/fag/progs							
1							

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=FlashM agic.exe

