

EPV IMAGE VSC



VIDEO PROCESSOR USER MANUAL

Elation Support

Thank You for Purchasing the EPV IMAGE VSC

Thank you for your purchasing the Elation Professional EPV IMAGE VSC Scaler and LED wall control system. Please read the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance. Please fill out and return the enclosed warranty card to validate your purchase.

Customer Service

Elation provides a toll free customer support line, to provide set up help and to answer any question should you encounter problems during you set up or initial operation. You may also visit us on the web at <u>www.elationlighting.com</u> for any comments or suggestions.

All returned service items whether under warranty or not, must be freight pre-paid and accompany a Return Authorization (RA) number. The RA number must be clearly written on the outside of the return package. Items returned without a RA number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a RA number by contacting customer service.

A brief description of the problem as well as the RA number must be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must also provide a copy of your proof of purchase invoice.

Customer Service hours are Monday through Friday 8:00 a.m. - 5:00 p.m. Pacific Standard Time.

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2-Year Limited Warranty

Elation® hereby warrants, to the original purchaser, Elation Professional® products to be free of manufacturing defects in material and workmanship for a period of 2 Years (730 days) on all internal parts, components, and labor. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

For warranty service, send the product only to the Elation factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation will pay return shipping charges only to a designated point within the United States except Hawaii or Alaska. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.

This warranty is void if:

- The serial number has been altered or removed
- The product is modified in any manner which Elation concludes, after inspection, affects the reliability of the product
- The product has been repaired or serviced by anyone other than the Elation factory unless prior written authorization was issued to purchaser by Elation
- The product is damaged because not properly maintained as set forth in the instruction manual

This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, Elation will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

Elation reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

This warranty is the only written warranty applicable to Elation Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

Revision

Format	Time	ECO#	Description	Principal
1.0	2010-12-23	0000	Release	Lisa

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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.

	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
\wedge	spare components inside for maintenance, so do not maintain
1111-6	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
U	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
<u> </u>	device get wet, must remove power cord right now.
Δ.	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

EPV IMAGE VSC series video processors are designed by the latest high performance image processing technology. EPV IMAGE VSC 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 VOIP (Copper RJ45).

2.1 Specification/Parameters

Composite BNC Input	
Number of Inputs	3
Supported Standards	PAL/NTSC
Signal Level	1Vpp±3db (0.7V Video+0.3v Sync) 75ohm
Multiplex	YCbCr
S-video DIN4 Input	
Number of Inputs	1
Supported Standards	PAL/NTSC
Signal Level	Y:1Vpp±3dB (0.7V Video+0.3v Sync) 75ohm U/V:0.7Vpp±3dB 75ohm
YPbPr BNC Input	
Number of Inpus	BNC*3
Supported Standards	analog HD input
Signal Level	Y:1Vpp±3dB (0.7V Video+0.3v Sync) 75ohm Pb/Pr:0.7Vpp±3dB 75ohm
VGA DB15 Input	
Number of Inputs	1
connetor	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
DVI Input	
Number of Inputs	1
Connector	Standard DVI-I socket
Supported Standards	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 ,
	1920×1080×50Hz
Signal Level	TMDS pwl, single pixel input, 165MHz bandwidth
Standard	DVI 1.1

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SDI Input	
Number of Inputs	2
Connetor	BNC
Data Rate Range	19.4Mbps~1.5Gbps
Supported Standards	ITU-R BT.656,ITU-R BT.601,SMPTE 259M,
	SMPTE 292, SMPTE 297
Equalization)	Belden 1694A 100M HD1.485G , 350m SD
	270Mbps
SDI Loop-out	
Number of Loop-Throughs	1
Signal Level	800mV±10%
DC Offset	0V±0.5V
Rise/Fall Time	HD1.485Gbps<270 ps; SD 270 Mbps 0.4
	ns~1.5ns
Overshoot	<10%
Timing Jitter	SD<0.2UI; HD<1.0UI
Alignment Jitter	<0.2UI
HDMI Input	
Number of Inputs	2
Connector	HDMI (standard type A interface)
Supported Standards	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 ,
	1920×1080×50Hz
Signal Level	TMDS pwl, single pixel input, 165MHz bandwidth
Standard	HDMI 1.3
SDI Loop-out	
Number of Loop-Throughs	1
Signal Level	800mV±10%
DC Offset	0V±0.5V
Rise/Fall Time	HD1.485Gbps<270 ps ; SD270 Mbps 0.4
	ns~1.5ns
Overshoot	<10%
Timing Jitter	SD<0.2UI; HD<1.0UI
Alignment Jitter	<0.2UI
DVI Output	
Number of Inputs	1
connetor	Standard DVI-I interface
Supported Resolution	800×600×60Hz , 1024×768×60Hz ,
	1024×768×75Hz , 1280×768×60Hz ,

	1280×1024×60Hz , 1440×900×60Hz ,
	1400×1200×60Hz , 1600×1200×60Hz ,
	1920×1080×60Hz , 1920×1200×60Hz ,
	2048×1152×60Hz
Signal Level	TMDS pwl, 165MHz bandwidth
VGA Output	
Number of Inputs	1
connetor	Standard DB15 socket
Supported Resolution	800×600×60Hz , 1024×768×60Hz ,
	1024×768×75Hz , 1280×768×60Hz ,
	1280×1024×60Hz , 1440×900×60Hz ,
	1400×1200×60Hz , 1600×1200×60Hz ,
	1920×1080×60Hz , 1920×1200×60Hz ,
	2048×1152×60Hz, 2048×1536×60Hz
Signal Level	R_{x} G_{x} B_{y} Hsync _x Vsync:0 to1Vpp±3dB (0.7V
	Video+0.3v Sync) 75ohm
	black level: 300mV Sync-tip: 0V
HDMI Output	
Number of Outputs	1
Connetor	HDMI (standard type A interface)
Supported Standards	800×600×60Hz , 1024×768×60Hz ,
	1024×768×75Hz , 1280×768×60Hz ,
	1280×1024×60Hz , 1440×900×60Hz ,
	1400×1200×60Hz , 1600×1200×60Hz ,
	1920×1080×60Hz , 1920×1200×60Hz ,
	2048×1152×60Hz
Signal Level	TMDS pwl, 165MHz bandwidth
Function	
Source Switch	Support every signal with alpha key operation
PIP	PIP for SD with HD and HD with HD
Alpha Key	support
Extras	
Communication	RS232 TCP/IP
Power Supply	85-264V 2A IEC-3
Working Environment	0°C~45°C
Stored Environment	10% to 90%
Product Warranty	1year
Over Specificatio	ns are subject to change without notice.

3.0 Connection

3.1 EPV IMAGE VSC Back Panel



1、Dial the code switch;

 $2 \ 10/100$ interface (copper RJ45). Used to connect the computer by 568B-568A twist-pair

3、USB interface, Used to connect the computer

4、RS232 interface (RJ11) for EPV IMAGE VSC processor. Used to connect the computer;

5-6、HDMI input interface。 Input the signal from HD player, DVD, computer, and so on.



7-8、SDI Input BNC, used to support SD/HD SDI input. Input the video signal from the HD player, HD projector. It can connect to the 7 or 8 interface on the next EPV IMAGE VSC, using the 750hm BNC.



9、SDI loop out BNC, used to loop input SDI signal to next SDI player.

 $10\mathchar`-11\mathchar`-$ Gigabit copper port, connect to LED screen.



 $12\,{\scriptstyle \smallsetminus}$ Gigabit Transmitter card USB control interface;

13、Gigabit Transmitter card DVI input, connect to DVI output of EPV IMAGE VSC;

(This Connection does not support hot-plugging)





14-16、Composite input interface, Composite BNC. Used to input composite signal (PAL, NTSC, SECAM compatible);



17 S-Video DIN 4, used to input S-Video signal (PAL, NTSC, SECAM compatible);



18、DVI input interface。Input the video signal from computer, DVI signal generator. Connect to the same DVI interface on VSP;

(This Connection does not support hot-plugging)



19-21、R/Pr G/Y B/Pb BNC, used to support SD/HD progressive input, up to 1080p60;



22、VGA input interface, DB-15, used to support Analog RGB input; connect to

the VGA interface on VSP;



23、HDMI output, use to connect with HDMI monitor or HDMI player;



24、 DVI output, connect to the monitor or LED display with DVI interface.

(This Connection does not support hot-plugging)



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25、VGA output interface, connect to the monitor, projector and so on;



26~27、Switch and power. It must use IEC-3 power line. Always ground to avoid electric shock.

3.2 How to install

EPV IMAGE VSC frame size



4.0 Front Panel Keyboard Operation

Insert power cord and push power to ON position. LCD module on the front

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panel will show ELATION LIGHTING and go into self verification before it load last setting config and send processed image to the target monitor. For the first setup, CV1 input is default source. With front panel keyboard, user can operate VSP with menu display on LCD module.

4.1 EPV IMAGE VSC Operator Guideline

EPV IMAGE VSC front panel as following:



1、LCD Module;

2、Keyboard:

ESC: push to exit from current choice item;

SEL: push to confirm the current choice item;

UP: push to select up items;

DOWN: push to select down items;

LEFT: push to select left items;

RIGHT: push to select right items;

CV1: switch to composite 1 input;

CV2: switch to composite 2 input;

CV3: switch to composite 3 input;

SVID: switch to s-video input;

YCbCr: switch to standard definition input;

VGA: switch to analog RGB input;

YPbPr: switch to high definition component;

DVI: Switch to DVI input;

SDI1: switch to SDI1 input;

SDI2: switch to SDI 2 input;

HDMI1: switch to HDMI 1 input;

HDMI2: switch to HDMI 2 input;

SAVE1: switch to use the user-defined mode 1;

SAVE2: switch to use the user-defined mode 2;

PBP: switch to show two pictures beside on beside;

PIP: switch to show picture in picture on the screen. CV1 is the default small picture on the top left corner, DVI is the default picture full screen;

POP: switch to show picture out picture on the screen;

FS: switch to selet full screen or zoom view, just for single picture mode;

MENU: push to go to main menu;

FRE: push to freeze the video image or live again

 $(Freeze \rightarrow Live \rightarrow Freeze)$

AB: push to switch between front picture and back picture if works in dual channel mode with alpha key, front picture will alpha key in step by step and back picture key out step by step;

SCALE: push to go to between scale \rightarrow zoom \rightarrow crop \rightarrow scale mode;

BRT: push to adjust the brightness and the contrast ratio, push to enter to the relevant Menu, and then push the UP and DOWN to adjust the brightness and the contrast ratio;

OUT: push to select the output format by using the UP and DOWN;

I/II: push to set single or dual channe;

SAVE: push to save current config;

4.2 Video Processor Menu

System menu as follows;

Fig. 1

The first line shows EPV IMAGE VSC.

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 Select key to enter it.

The on the right means you can select the menu items by pushing the up and down direction key.

User can check the information of the equipment in "Dev Info" menu

(including the manufacturer, serial-number);

User can get more service and support according to the serial-number.

ELATION LIGHTING >SN: 3204

User can check current input and output sources in Dev Info menu also.

Input: CV1 1024x768x60 Output: CV2 1024x768x60

Touch UP/DOWN to check System time

System time:2009-08-1715:12:35

User can do a Factory Settings in Recall menu, after successful reset you will

see the menu as follows:

Factory reset was completed !

Push the MENU to enter the main menu, and then push up and down

direction key, the menu as follows:



Push the LEFT/RIGHT to select the relevant submenu.

LANGUAGE submenu as follows:

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Push UP/DWON to enter Alpha setup, user can set value from 0 to 100,

0 means video or graphic would be disappear and 100 means normal;

Port A and Port B stand for two channel picture;



Push OUT to enter the Output menu, push the UP or DOWN to select

different output resolution, push OK to confirm the output resolution.

Advance submenu as follows:

Added adjustable feature of DE;

Press UP/DOWN and select the menu as shown in Figure 1:



Figure 1

Press LEFT/RIGHTand select XY_Pos to enter the submenu of adjusting effective area;

H_BLANK *HS:	46
V_BLANK *VS:	38

XY_Pos: The sub-menu of which is used to adjust the position of overall effective area shown on the screen or monitor.

<code>H_BLANK: The overall effective area can be moved around by adjusting the value of <code>H_BLANK</code>.</code>

V_BLANK: The overall effective area can be moved up and down by adjusting the value of V_BLANK.

	Added adjustable feature of DE, support the following resolution:
Note:	"800x600x60 Hz "、"1024x768x60 Hz "、"1024x768x75 Hz "
- Note:	"1280x1024x60 Hz "、"1400x1050x60 Hz "、"1600x1200x60 Hz "

Screen parameter:	
Hsize:	1024

Screen parameter: Hsize: 1024

Step: user can set the step of scale;

HSize: set the horizontal size of the image;

VSize: set the vertical size of the image;

HPos: set the horizontal position of the image;

VPos: set the vertical position of the image;

User can set size and position of the screen simply, Mainly applies to LED screens users. After setting screen parameter, the user choice PIP or PBP operation, display picture can directly shows on corresponding screen.



Push the / to enter Single or Dual channel menu , push the UP / DOWN to select the single or dual channel, push SEL to confirm the single channel or dual channel work state;

Setup Dual	
Setup Single	

Select the input channel, push the UP/DOWN, and SEL to confirm the different input channel. User can also push the channel name on the keyboard to go into the input channel.

Source Select >CV1

AB in EPV IMAGE VSC is for two image Alpha in and out.

Setup A on B

OR:

Setup A on B

Push SCALE to set the size and position of the image, push UP/DOWN and

SEL to confirm the relevant items;

Step: user can set the step of scale;

HSize: set the horizontal size of the image;

VSize: set the vertical size of the image;

HPos: set the horizontal position of the image;

VPos: set the vertical position of the image;

Scale > Step 10

Push the FRE to freeze the live image or live the freeze image.

Freeze Frame Once gain for live

OR:



Push BRT to set the brightness and the contrast ratio:



OR:



Push SAVE and then push SAVE1 or SAVE2 to save the operation to SAVE1 or

SAVE2; Push SAVE1 or SAVE2 to execute relative operation after user save

the operation sucessfully.

Select Save Mode ! Push Esc To Exit

5.0 Communication Software Guideline

EPV IMAGE VSC video processor is very easy to be configured with user friendly communication software, support drag and drop operation for edit and display. Also can customized with schedule function.

5.1 Install Software

Dual click EPV IMAGE VSC.exe to install, select Chinese or English version for use, after click "select "to next dialog.

	Select La	nguage		×
				we we have a second secon
	0	ĸ	Cancel	
🔏 EPV Imag	e VSC			
		Welcome to EVLED IM program will install computer. It is strongly recor Windows programs bet Click Cancel to quit you have running. Setup program. WARNING: This progra and international to Unauthorized reprodu program, or any port civil and criminal	L EVLED IMAGE VS meended that you fore running this t Setup and closs Click Next to con am is protected 1 reaties. action or distril ion of it, may r	C on your exit all s Setup Program. e any programs ntinue with the by copyright law bution of this result in severe
157		prosecuted to the ma law.		

If user agree to install this software, please click next to go on, else click esc to exit this install.

And in next dialog is the user agreement of the software, click agree to go on and refuse to exit.



icense Agreement	
	Ce
IMPORTANT: PLEASE READ!	~
	ideo Processor Product Support Software 🛛 🚆
License Agreement This Video Processor Produ	act Support Software License Agreement (this
"Agreement") is effective	as of the date the Software is obtained from
Video Processor (the "Effe between Video Processor Co	ective Date"), and is entered into by and proporation.
1 DEFINITIONS	
	" means the individual or company who has or distribute the Video Processor Product
will dowilload, use alloy of	
Support Software and who i	is being licensed to use the Software.
Support Software and who i "We," "Us," or "Video Proc	
"We," "Us," or "Video Proc	is being licensed to use the Software. cessor" means Video Processor Corporation, an 🛩
"We," "Us," or "Video Proc Do you accept all the term:	is being licensed to use the Software.
"We," "Us," or "Video Proc Do you accept all the term: click on the Yes push butto	is being licensed to use the Software. sessor" means Video Processor Corporation, an 🛩 s of the preceding license agreement? If so,
"We," "Us," or "Video Proc Do you accept all the term:	is being licensed to use the Software. sessor" means Video Processor Corporation, an 🛩 s of the preceding license agreement? If so,
"We," "Us," or "Video Proc Do you accept all the term: click on the Yes push butto	is being licensed to use the Software. sessor" means Video Processor Corporation, an 🛩 s of the preceding license agreement? If so,
"We," "Us," or "Video Proc Do you accept all the term: click on the Yes push butto	is being licensed to use the Software. ressor" means Video Processor Corporation, an s of the preceding license agreement? If so, on. If you select No, Setup will close.
"We," "Us," or "Video Proc Do you accept all the term: click on the Yes push butto	is being licensed to use the Software. ressor" means Video Processor Corporation, an s of the preceding license agreement? If so, on. If you select No, Setup will close.
"We," "Us," or "Video Proc Do you accept all the term: click on the Yes push butto	is being licensed to use the Software. ressor" means Video Processor Corporation, an s of the preceding license agreement? If so, on. If you select No, Setup will close.

Inst	all	
IMFORTANT: F Terms and Cc License Agre This Video F "Agreement") Video Proces between Vide 1 DEFINITION "You, " Tour will downloe Support Soft "We, " "US," Do you accept click on the	Setup is not complete. If you quit the setup program now, the program will not be installed. You may run the setup program at a later time to complete the installation. To continue installing, click Resume. To quit the Setup program, click Exit Setup. <u>Resume</u> Exit Setup	re t (this ned from and o has or ct tion, an If so, se.

If users agree to the agreement, user can select install directory in next

dialog, else, click next to install software to default directory "C:\Program Files".

Select Destination Director	
Setup will install EVLED IMA	GE VSC in the following folder.
To install into a different folder.	folder, click Browse, and select another
You can choose not to instal	
Setup.	1 EVLED IMAGE VSC by clicking Cancel to exit
	I EVLED IMAGE VSC by clicking Cancel to exit
Setup.	I EVLED IMAGE VSC by clicking Cancel to exit

Click "next"to go on.



	Group	Ce
	rogram Manager group to add	EVLED IMAGE VSC icons
to: ELATION LIGHTING		
SECTION LIGHTING		12
Autodesk		<u> </u>
Microsoft Office NVIDIA Corporation		
Skype		
Windows Live Windows优化大师		-
WinRAR		
WinRAR 附件 管理工具		~

Click "next" to go on.

elect Program ∎anager Gr	oup	
Enter the name of the Progr to: ELATION LIGHTING	ram Manager group to add E	VLED IMAGE VSC icons
360杀毒 Autodesk Microsoft Office NVIDIA Corporation Skype Windows Live Windows 优化大师 WinRAR 附件 管理工具		X
se Installation	< Back	ext > Cancel

EPV Image VSC		
Installing		
Current File	4	
	Image\Skin\Freeze4.jpg	
All Files Time Remaining O minut	es 1 second	
· · · · · · · · · · · · · · · · · · ·		
Wise 安装向导	< Back	Next > Cancel

Click "finish" and ready to run EPV IMAGE VSC console.



5.2 Run EPV IMAGE VSC Console

Run EPV IMAGE VSC.exe and the console will auto detect device in serial or networks by detected Comm port and pro-define IP address.



(Camera 1) (Camera 2) (DVD Player) (Video Server) (Video Recorder) (Broadcasting Vehicle)

After detect, open the device console, for example, if the device is EPV IMAGE VSC, then EPV IMAGE VSC console will be load, as following.

EPV Image VSC 2.8.4.2	
視频注理器 (2) 帮助 (2)	
文件 通讯	设备 时间表 帮助
输出分算率 工作极式 图像显示极式 希	型比例 OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
1024x768@60 ▼ 単道道 ▼ A8 N	
便挑視屏处理器	当前分解率:1024/768860
界步	
× 0 ● Y 0 ● 充文 1024 ● 高文 768 ● 後音	
田康	
- 第小	
× 0 奈 Y 0 奈 兆文 1024 奈 兆文 766 奈 🛛 袋童	
显示	
(表式)	
	The A subscript of the T
第 出	
· 奈成	
50 50 50	
s sn sn sn	
	現於: 1 2 3 4 5 6 通道:
	日志
	2010-10-2014-15:05 546時回22010-10-2014-15:05 546時回22010-10-2014-15:05 552
	2010-10-2014 15:05 582(第二十) 2010-10-2014 15:05 680時頃 2010-10-2014 15:11 2020 — 高型準編入連
	2010-10-20 14:15:11 8904967
	2010-10-2014-1511 960
	×
COM4: Opened. VSP516S	[SV-1.15] [CV-1.0] [FV-1.0] [SF-] [100m-0.0-0]

Setup Communication

EPV IMAGE VSC Console support COM port or Ethernet (UDP) to access EPV

IMAGE VSC.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 existent com ports and baud rates; default Baudrate is 115200.

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.

Y Comm Setting	gs x
🔵 Serial	
CommPort	~
BaudRate	115200
OEthernet	
Local Port	1000
Remote Host	192.168.0.100 🗸
Remote Port	1000
	OK Cancel

The COM Port is decided by user's COM. 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.



Then click to open COM. COM6: Opened. will display after success to connect the COM.

If EPV IMAGE VSC 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.



<u></u>	Ŷ
<u> </u>	~

: Open script. User can open saved script.



⁄₽ : 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)



: Export template. Export current config as template.

-: 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, 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.

: Exit.

Communication



Set COM.

Device



Synchronization.

Save to flash.

FlashMode	UserMode1		•
	UserMode1 UserMode2		
	UserMode2 UserMode3		
Ok		Car	ncel



Load form Flash.

Load Forr			1992.0
FlashMode	UserMode1	3	•
	UserMode1 UserMode2 -UserMode3		
Ok		Car	ncel

: Factory setup

: Advance, for adm. inistrator control.

: Execute schedule or stop schedule.

Help

P

8

: Help. Display helps dialogue.





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

Output Resolution	
1024x768@60	-
1024x768@60	~
1280x768@60	_
1280x960@60	_
1280x1024@60 1360x768@60	_
1366x768@60	
1365x768@60	-5
1600x1200@60	~

Operating mode: choose to work in single channel or dual channel.

	Operating Mode	
	Single channel	•
4	Single channel Dual channel	

Layout: if in dual channel mode, user can set the device to work in PIP or PBP mode directly with quick preset layout button as following.

Layout		
	~	

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



If work in dual channel, channel 1 includes VOIP, CV1, CV2, CV3, SVideo, YCbCr, SDI 1 and SDI 2, and channel 2 includes DVI, YPbPr, VGA, HDMI1 and HDMI 2. The cross over interface picture means they can not access. The orange pane means selected interface for channel 1. The blue pane means selected interface for channel 2.



Screen parameter:

User can set size and position of the screen simply, Mainly applies to LED screens users. After setting screen parameter, the user choice PIP or PBP operation, display picture can directly shows on corresponding screen.

Screen Param		
X 0 🌩 Y	0 🔿 Width 1024 🖨 Height 768 🖨	Set

Images: User can scale the images; Image 2 can't choose in single channel mode.

Images	
Image1	
Scale	
× 16 🜩 Y 49 🜩 Width 638 🜩 Height 477 🜩	Set

Display Toolbar:

Display		
Mode	Alpha	Gamma



Display toolbar Users can set Alpha value of "dynamic Video" and "static current frame" through display toolbar.

Setting Gamma is generally not recommended, since LED large screen itself has Gamma function.

For further information, users can contact with our customer service team.

Output: user can customize the brightness and the contrast.

Output	
Brightness	Contrast
R	R
G 💭 0	G 🗍 — — — — — — — — — — — — — — — — — —
в 📜 🛛 🛛 🛛	в 📜
Sync	Sync Default

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



Log: user can save or delete the operate log file.

Log	
0009.08.03.11.12.03.TU/C020000006-010100070 ReadCrop_VSize 0009.08.03.11.2.03.TU/C02000006-010200071 ReadCrop_HPos 2009.08.03.11.12.03.TU/C02000006-0102000071 ReadCrop_HPos 2009.08.03.11.12.03.TU/C02000006-0103000072 ReadCrop_VPos 2009.08.03.11.12.03.TW/C0601033200	

Added functions



• Alpha delay time

Alpha can set AB button Fade effect.

¥ Alpha			- ×
DelayTime	0	•	
ОК	1	Cancel	

• IP set

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



• Clock

Users can set or adjust lower computer time through" clock"

			the second s		
		Day		Min	Sec
2009 🚔 12	2 🜩 1	\$	15 🌩 1	1 🜩	18 🜩

• Equipment Schedule function

Users can set device to work with schedule, and then device can automatically switch between single or dual channel, resize image, switch video and with fade effect in need.

Equipment currently supports max 10 regular content; users can set in the "timing" option.

Specifically how to implement devising schedule function, please refer to Appendix .

Timing Parameters – x
Timer Index 1 🕞 Get Set ON
Date Settings
Time Hour 15 🖨 Minute 10 🗲 Second 57 🖨
Operating Mode Single channel AB Image1
Scale
X 0 🖨 Y 0 🖨 Width 640 🖨 Height 480 🖨
Input Source

6.0 FAQ

6.1 No output in target display

1) Check the output config of the input video.

2) Check the input channel config is ok. Ex.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 EPV IMAGE VSC is not out of the maximal resolution

of target display.

- 6) Check ALPHA value is not 0.
- 7) Any requirement, please feel free to contact our customer service engineer.

6.2 VGA input could not work with EPV IMAGE VSC Console

- 1) Check VGA source output is ok.
- 2) Check VGA input resolution is not out of EPV IMAGE VSC Console support list,
- as following. The biggest input resolution is 1024*768*60Hz
- 3) Check EPV IMAGE VSC Console works in VGA input mode.
- 4) Any requirement, please feel free to contact our customer service engineer.

6.3 DVI input could not work with EPV IMAGE VSC

- 1) Check DVI source is ok.
- 2) Check DVI source output is not out of EPV IMAGE VSC support list.
- 3) Check EPV IMAGE VSC works in DVI input mode.
- 4) Check the connection between EPV IMAGE VSC and DVI source is correct. Restart DVI source and check output.
- 5) Any requirement, please feel free to contact our customer service engineer.

6.4 Component input could not work with EPV IMAGE VSC

1) Check the connection between EPV IMAGE VSC and Component source is correct. Especially Y signal. Refer to cabling example in page 5. High Definition component YPbPr is only support in YPbPr input. Standard definition YCbCr support 480i and 576i only; High Definition YPbPr support 480i、576i、480P、576P、720P50、720P60、1080i50 and 1080i60;

2) Check component source works, normally DVD component output should be open from its menu.

3) No recommend to output component and SVideo input from the same source.

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

6.5 User settings can not save

EPV IMAGE VSC 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.

EPV IMAGE VSC

Confirm to press the "SAVE" button, then press "SAVE1",or "SAVE2", that will save the current operation mode to the "user mode 1",or "user mode 2", after that, gently push button "SAVE1",""SAVE2, it will call out the corresponding setting of user-mode. If that, the saving is successful.

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

6.6 Can't update main board software

Connect the computer and EPV IMAGE VSC Series, select *.mot. Download file to device.

After the equipment power up, right-click the ".mot" file at the left side of menu, when the screen shows "waiting for update", you can update the main board program. Next, choose the "download file to device", start to loading.

6.7 Display SDI1 or SDI2 in dual display mode

The way to display SDI1 or SDI2 in dual display mode: select SDI1 or SDI2 when in single display mode, press / to enter into dual display mode then select SDI1 or SDI2 as source signal

6.8 HDMI display shows blue screen

In dual channel and the picture composition is: SDI+HDMI(including SDI1, SDI2 and HDMI1, HDMI2 combine together), switching between SDI1 and SDI2, or other signals switching to SDI1 or SDI2, when HDMI display shows blue screen, then user needs to reselect the HDMI working signal.

6.9 Can't be saved ALPHA value

ALPHA value can't be saved when operating the AB key on the front panel to do FADE IN FADE OUT, so user has to revise the corresponding value in the Advanced Menu to save it.

7.0 Quick Start

7.1 Single-screen control

Set screen parameters

Users can easily change the screen size and location by setting the parameters

with keyboard and LCD menu.

Press MENU to access main menu, Menu shows as below picture:



Press UP / DOWN button to turn the menu shown as below pictures:



Step: Set the unit of zoom and move every time;

HSize: Set Horizontal size; VSize: Set vertical size;

Hpos: Set horizontal coordinates(horizontal phase);

VPos: Set vertical size(vertical phase);

Scale pictures

Step: Set the unit of scale and move every time; (Three steps available:1,

10,100)

HSize: Set horizontal size; VSize: Set vertical size;

HPos: Set horizontal coordinates(horizontal phase);

VPos: Set vertical size(vertical phase);



Set alpha

Enter Alpha sub-menu can set the alpha of video, Press UP /DOWN to set the value of alpha; Port A and Port B represent two video channels;



Set brightness contrast

BRT brightness and contrast button can set brightness and contrast of active window video shown as below pictures:



BRT brightness and contrast button can set brightness and contrast of active window video shown as below pictures:

EPV IMAGE VSC Brightness	50 ↓
EPV IMAGE VSC Contrast	50 t

Freeze Frame

Press FRE static frame button can freeze, press the button can freeze current active window image; You can make the screen switch between static and active with this button; Pictures show as below:

> Freeze Frame Once gain for live

or

Live Frame Once gain for live
7.2 Set dual screen fade

1. Press / button to switch between single channel or dual channel. Menu is as follows:



2.Choose two input source from CV1、CV2、 CV3 、SVID、 DVI、YPbPr、VGA、 SDI1、SDI2、HDMI and HDMI2.

3. Press AB button to realize dual screen fade.

CV1、CV2、 CV3 、SVID、SDI1 and SDI2 is small screen defaully, DVI、YpbPr、 VGA、HDMI1 and HDMI2 is big screen defaully while realizing dual screen, If you want the two faded screens the same size, you can set the screen size by SCALE button. For LED users, who are familiar with studio operation can also set the display window on PC with studio software by the third party. And PC output by VGA or DVI, Use SCALE to make the CV1、CV2、 CV3 、 SVID、SDI1 and SDI2 the same size as studio display window. AB button can quickly realize dual screen fade;

Step: Set the unit of zoom and move every time;

(Device default three step:1, 10,100)

HSize: set horizontal size; VSize: set vertical size;

HPos: Set horizontal coordinates(horizontal phase);

VPos: Set vertical size(vertical phase);



Press LEFT/RIGHT keys or touch UP/DOWN, select menu; * in front of the menu means this menu is selected. Press SEL key, you can enter corresponding menu to set and view.

7.3 Displaying subtitles and LOGO

Users could add subtitles and Logo on the video by "set subtitle" option in "Video Processor" menu

• Subtitles switch

By "subtitles switch" function, users can choose whether to display subtitles and subtitles background on the video.

	Subtitles	show	on	top	of	the	image	without	subtitle
Note:	backgrou	nd.							

Foreground transparency refers to subtitles's transparency and background transparency refers to subtitles background, which defaults to be 50% transparent, user can not adjust the value of this transparency.

Subtitles switch	
Subtitles on/off	
Background on/off	
Background transparent ON/OFF	
Foreground transparent on/off	

• Displaying Subtitles

Fill in the subtitles blank with words that you need to show on display(eg. Advertising Slogans), maximum 80 characters allowed. Then click the "submit" button, subtitles will appear on the screen soon.



Size of subtitles is limited, Chinese fonts defaults to be Times New Roman and size is 24X24 (pixels); English font defaults to be Arial, size of 16X24 (pixels). The subitle font could not be modified at present.

Subtitles



• Subtitles color or subtitles background color

Users can change the subtitles color or subtitles background color through dragging the scroll bar by mouse or make choice in the color palette to select the right color

Subl	tles Color	
R	Q	0
G	•	0
В		0

Subt R	 0
G	
в	 O

基本颜色 (b):	颜色	? 🗙
■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	基本颜色(B):	
规定自定义颜色 (0) >>		
规定自定义颜色 (1) >>		
规定自定义颜色 (0) >>	自定义颜色(C):
and and the state of	规定自]定义颜色 @) >>
确定 取消	确定	取消

• Subtitles movement

Figuration of parameters in the "subtitles rolling" menu, subtitles could be rolling or static, at present, the device supports horizontal rolling(left or right) only, vertical rolling is not available at present.

Subtitles movement		
Subtitles rolling	ON/OFF	
🔿 rolling Left	🔵 rolling Right	

• Subtitle rolling Speed

Through dragging the scroll bar by mouse to set the speed of rolling subtitles.



• Subtitles position

By setting the value of horizontal or vertical coordinates, subtitles position on the screen can be adjusted.

Subtitles Width refers to the width of the subtitles display area. As long as the parameters have been set, subtitles will be displayed in the figurated area.



• LOGO display

Users could made any LOGO displayed by the LOGO display function.

Users can choose whether to enable the LOGO display function according to circumstance.

When users select the "background color mark", the screen background color would be black and LOGO shows on it.

When users select "trademark transparent", LOGO would be translucent.

	When users select "trademark transparent", LOGO would be
Note :	translucent.
	The value of this transparency could not be modified.

Logo Background Color ON/OFF	
Logo transparent ON/OFF	

Users could change the image format and pixels with ^{Paint} software in window OS. The picture would be cut on the right side and bottom if it is too big. If the current picture is larger than the new size, the right side and the bottom part of the picture will be cut off in order to adapt to smaller areas.





Change image size, and then click "properties" on "image" menu, and select the width and height of the measurement in pixels. Enter the width and height values in the "width" and "height" box.



the device support only 16 bit color bitmap in bmp format with maximum pixels of 256X128



After LOGO picture was adjusted to specified size, save the image to 16 bit color bitmap bmp format.



• Download LOGO

After LOGO picture was adjusted to specified format and size, users could download it to the device, and then enable the LOGO display function, the LOGO would be displayed on the screen.

By setting the parameters of X or Y coordinates, LOGO position on screen can be adjusted.

DownLoad Logo	
X 0 🜩 Y 0 🜩 Set	
FilePath E:\ARM\VSP618-32\Logo_16.bmp DownLoad	
0%	

7.4 How to control processor with console software by USB?

1. Install the driver;

Connect the USB cable to the PC and the video processor. Turn on the EPV IMAGE VSC 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 management, 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
Hardware Profiles Hardware profiles provide a way for you to set up and store different hardware configurations. Hardware Profiles
OK Cancel Apply

Action View Help Image: Computer Image: Computer	Device Manager	
LADXIAOLONS Batteries Buetooth Computer Disk drives Display adapters Display adapters Monitors Modems Monitors Port (COM & LPT) Port (COM & LPT)		
 Bluetooth Computer Computer Display adapters DVD/CD-RoM drives DVD/CD-ROM drives DVD/CD-ROM drives DE ATA/ATAPI controllers IDE ATA/ATAPI controllers Keyboards Mice and other pointing devices Modems Modems Motionrs Port (COM10) BT Port (COM10) BT Port (COM11) BT Port (COM10) <li< th=""><th>> 📧 🖆 🖆 😢 🗷 又 🛪 🖉 🖉</th><th></th></li<>	> 📧 🖆 🖆 😢 🗷 又 🛪 🖉 🖉	
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BT Port (COM21) BT Port (COM2) BT Port (COM40) BT Port (COM40) Communications Port (COM1) Processors Processors Smart card readers Smart card readers Sound, video and game controllers Sound video and game controllers Sound video and game controllers		
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Image: Stream of the stream	BT Port (COM21)	
BT Port (COM6) BT Port (COM7) Communications Port (COM1) Silicon Labs CP210x USB to UART Bridge (COM4) Sourd card readers Sourd card readers Sourd, video and game controllers Sourd state melvices	BT Port (COM22)	
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Silicon Labs CP210x USB to UART Bridge (COM4) Response Smart card readers Sound, video and game controllers System devices	BI Port (COM/)	
Processors Sourt card readers Sourd, video and game controllers Sourd, video and game controllers Sourd, video and game controllers	Communications Port (COM1)	
 Image: Sound and Sound		
⊕ 🧐 Sound, video and game controllers ⊕ 🚽 System devices		
📴 😨 System devices		

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

EPV Image VSC 2.8.4.2			. 6 🗙
視频处理器 ② 帮助 ①			
文件 選	11	收备 时间表 蒂 斯	
🛎 🖬 🎍 😫 🍓 🔮 🖪	۲. 🗵		
输出分费率 工作模式 图	像显示模式 幅型比		
1024x768@60 V 单通道 V AB	Normal		
便挑视屏处理器		当前分解率:1024x768060	
异 学			
× 0 ● Y 0 ● 東京 1024 ● 高度 768 ●			
88			
第小 × 0 ◆ × 0 ◆ 素炭 1024 ◆ 高炭 766			
↓ 0 (* 1 0 (* 1024)* HSK 700 皇示			
▲本 (模式	-Ganna		
动去視频 50 = 9:5	linear •		
输出			
☆22 × 20 × 20 × 20 × 20 × 20 × 20 × 20 ×	50		<u>и</u> н:
COM4: Opened. VSP5	116S	[SV-1.15] (CV-1.0] [SV-1.0] (SN-1 [100#-0.0-0]	

Rate to be: 115200.

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

Press to start RS 232 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; the software operation is the same as EPV IMAGE VSC, just can see the difference of the SDI input;

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

7.5 How to Use LINSN Ledset software?

- 1. First, Install EPV IMAGE VSC software and LINSN software.
- 2. Run EPV IMAGE VSC software;

①Press to set the RS232. first choose the current RS232 you are using,

then set the baud rate.

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

Press to start the RJ232, when the green point showing on the right down corner, it means the communication is successful.

Press coption. Find the LINSN software installation file LEDSET.EXE through "external progress route" as following picture:

Open device when start	Execute schedule when start
Start Script	
O Use Last Run	
O Use Script File	- + + + - + - + - + - + - + - + - + - +
Win Exec Path CADocum	nents and Settings\Administrator\桌面\常

EPV Image VSC 2.8.4.2	
現然受護() 希知()	
文件 通讯 说备 时间表 帮助	
输出分類率 If 使成式 配像呈示視式 電気批測 Vilaudio1 (Vilaudio1	
REFERENCE	_
SA States	
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<u>新花型示异的要</u> 型示异的要型	
RE: 1 2 3 K 5 6	801 : 🔴
Bt	
16	-
	<u></u>
	×
	<u> </u>
	×
0(8): Crast. V25165	

As LINSN software will use RS232 for communication too, so user should first close EPV IMAGE VSC console software RS232 communication after that press

If in used , then to start the LINSN software. When you want to use EPV IMAGE VSC software, you just need to close LINSN software, start the RS232 again.

	Before using EPV IMAGE VSC console software to execute the
Note:	LINSN software, you should first internally connect the device's
	100M board with sending card.
	Any question, please feel free to contact our customer service
	engineer.

<u>*</u>

8.0 Appendix

8.1 Appendix Download the main board software

• Installation

Double-click fdt2_2 setup.exe.



Click the next button.



Click the yes button.



Click the next button.





Click the next button.

Hitachi Flash Developme	ent Toolkit Installation		
	Additional (Kernels -		
Sur	Select kernels to install (a	II selected by de	fault):
	H8S/2000	2248 k	Devices
	H8S/2600	947 k	Devices
7	Г Н8	1556 k	Devices
	🔽 SH	974 k	Devices
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Unselected the H8S/2000, H8S/2000, H8. Click the next button.



Select 7144.45, Click the OK button.

Hitachi Flash Developme	nt Toolkit Installation	X
	Select Destinati Directory	оп
Serve	Please select the directory where the Hitachi Development Toolkit files are to be installed.	Flash
	'Free Disk Space After Install' is based on you selection of files to install. A negative numbe there is not enough disk space to install the a specified drive.	r indicates that
	C:\Program Files\Hitachi\FDT2.2	Browse
	Current Free Disk Space:	14822092 k
	Free Disk Space After Install:	14804720 k
	-	
	< <u>B</u> ack <u>N</u> ext >	Cancel

Select the location by browse. Click the next button.

Hitachi Flash Developme	ent Toolkit Installation	x
HIRACHI HASH Developme	Select Backup Dire Backup replaced files Please select the directory where the replace moved:	
	< Back	Cancel

Click the next button.



Click the next button.

Installing		
	Application files: \FDT2.2\FLASHWorkspaceManager.dll	
	16%	
	Cancel	
Hitachi Flash Developme	ent Toolkit Installation	×
	Installation of the Hitachi Flash Development Tool been successfully completed. Extra information is available on our website: http://www.hmse.com To uninstall this update, use the Add/Remove Progran Control Panel, and select "Hitachi Flash Development from the list. Press the Finish button to exit this installation.	kit has ns icon in
	< Back Finish Ca	ncel

Click the finish button. It's ok.

• Download

Open the Flash Development Toolkit 2.2.



Click the OK button.

FLASH Development Toolkit	2.2
Ele Edit View Project Device	Image Iools <u>Wi</u> ndow <u>H</u> elp
16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	🖉 🖬 🕼 🛝 🛍 🛱 🗆 ♀ ♀ 🗰 ₩ 🕅 🗛 🆓 🕸 🕎
No Workspace	New Workspace Workspace Hune: EPV 701 C: UProgram Files\Mitachi\FDT2.2\Workspaces\ Workspace C:\Frogram Files\Mitachi\FDT2.2\Workspaces\LED-Dir- OK Cancel
For Help, press F1	

Fill the name. Click the OK button.

File Edit View Project Device Image Tools Window Help Image File Edit View Project Device Image Tools Window Help Image File Edit View Project Device Image File No Workspace Image File	FLASH Development Toolkit 2.2
No Workspace Rew Workspace FLASH Workspace Manager Image: Comparison of the end	Elle Edit View Project Device Image Tools Window Help
No Workspace P 23 FLASH Workspace Manager P 23 Image: Contract of the state	₩ ₩ ₩
	No Workspace
	FLASH Workspace Manager
	Y
	OK Cancel
For Help, press F1	

Click the (Y) button.

FLASH Develo	opment Toolkit :	2.2				
Eile Edit View	Project Device	Image Tools Window	v <u>H</u> elp			
16 6 7]≌∎0 ≯	BB	abc ∭	M 🖓 🖉 🔛	
Workspace 'LEC	; ⊻ x D-Director'					
FLA	SH Workspace	Manager				
	You have	created a new Worksp		un the Project Wizard to add a F 否(1)	Project to the Workspace?	,
For Help, press F1				Workspace saved.		

Click the (Y) button.

FIATION



Fill the name. Click the OK button.



Select the sh/7145f. Click the next button.



Select the COM port. Click the next button.

FIATION

FLASH Development Toolkit 2.2	
II File Edit View Project Device Image Tools Window Help	
Workspace LED-Dr Workspace LED-Dr Wirkspace LED-Dr	
For Help, press F1	

Click the next button.



Click the next button.

🚰 FLASH Developme	nt Toolkit 2.2		
Eile Edit View Proje	t <u>D</u> evice Image <u>T</u> ools <u>W</u> indow	Help	
<u> 48</u> 66 97 87	Programming Options		•
Workspace LED-Da	Wockspace Workspace Deploy Deploy Target field Commence Service Service Service Device Insole Device Insole	The FLASM Bevelopment Toolkit offers a device protection system, plus an advanced messaging level for use with hardware and kernel development. What level of device protection would you like? Frotaction C Interacti C None When programming the device, any blocks found to have been written previously will automatically be erased What level of messaging would you like? Messaging C Standard C Advanced The Toolkit will display messages pertaining to general purpose use. 《上一步 ② 完成 取消	
For Help, press F1			

Click the finish button.



Select project/properties/communications. select the COM port in user setting.

Do not check User default baud rate and select Target Baud as 9600.

FLASH Developme	ent Toolkit 2.2 - LED_director		
<u>File Edit View Project</u>	Device Inage Icols Window Help		
	Ø ⊁ № 6 □ ♀♀ ≡≡≡∞≡ # ∰ø №	director 🗾 🗗	R 🛎 🖀 🖳 🚿 🖉 🖆 🐿 🔍
Workspace LED_lifect.	Project Properties "director" Project Kernal Communications Derice Programmer Rodder Com Default Read 195000 Currently connected No Office Programmer Programmer Rodder Com Office Programmer Programmer Rodder Com Office Programmer Programer Programer Programmer Programmer Programmer Programmer Program	? X nsants ngz	
<			
Loading Comms DLL Loaded Comms DLL Initiating BOOT SCI ERROR : Boot failed Connection failed	sequence		<u> </u>
Dependencies direction	seter /		×
For Help, press F1		ot Connected	

Click the target files by the right mouse. Select add files to project , and select user *.mot.



Connect the computer and EPV IMAGE VSC Series, select *.mot. Download file to device.

After the equipment power up, right-click the ".mot" file at the left side of menu, when the screen shows "waiting for update", you can update the main board program. Next, choose the "download file to device", start to loading.

After update, the device will auto run into operation mode without reset process.



8.2 Appendix II Download the IP software

Turn off the power, take the two coding switch to "ON" sate. As below:



Connect one side of the RJ11 download line to the RS232 on the video processor, and the other side to be connected to the serial port 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 115200, choose LPC2368, and to load the aim document (hex.document) of IP board 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 🛙 🛛 🕷	ic - NON PRODUCTION USE ONLY
<u>F</u> ile <u>I</u> SP <u>O</u> pti	ons <u>T</u> ools <u>H</u> elp
🖻 🗟 🔍 🎯	🐗 🗸 🌉 ≽ 😻 🔣 😮 😂
Step 1 - Communi	cations Step 2 - Erase
Device:	LPC2368
COM Port:	
Baud Rate:	115200 Erase block 3 (0x003000-0x003FFF) Erase block 4 (0x004000-0x004FFF)
Interface:	None (ISP)
Oscillator (MHz):	Erase all Flash+Code Rd Prot Erase blocks used by Hex File
Step 3 - Hex File	
Hex File: E:\文档	á \Backup\test_usb\uc150\uc150PRJ-base\2300_Http_de Browse
	:星期四,十月 21, 2010, 14:44:1 more info
Step 4 - Options	Step 5 - Start!
Verify after prog	ramming Set Code Read Prot Start
Gen block chec	
Execute	
Download free 805	51 and XA code examples using I2C, CAN, Flash, etc.
www.esacademy.o	com/fag/progs

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.



8.3 Appendix How to add tasks.

Use "Device Schedule" can add tasks, make device automatically run to the Schedule input source in specified time or schedule display modes such as fade in and out.

• First of all, set lower computer current time through host computer "clock".





After Clock setting, users can check whether successfully set through button. Press MENU button to enter system main menu, then press Dev Info (device information), then press SEL button can show device information. Touch /DOWN, check in the System time. Shown as below picture:



• After device clock set, add task plan through" Timing Parameters".

Image: Image of the second
Timer Index 1 📻 Get Set ON
Date Settings
Time Hour 15 Minute 10 Second 57
Operating Mode Single channel AB
Image1 Scale
X 0 🗣 Y 0 🜩 Width 640 🜩 Height 480 🜩
Input Source

1. Users need to start "time-enabled" before using" timing device". If you forget to start, time set may fail.

Click "start" button , when the button changes to , it means



time can start.

Press MENU button can enter system main menu, touch UP/DOWN to enter advanced menu, shown as the picture:

1

>EPV IMAGE VSC	
*Advance	

Press SEL button to enter advanced menu



2. When the timer count is set to 1, it indicates that the setting contents will be stored in the "timing 1". If you need to set more, you can set up one by one and

saved in differe	ent "Timer index".
Note :	Equipment currently supports 10 task scheduler.

3. Set "task schedule" playing time, can up to second.

Date Settings					
Hour 15	•	Minute 33	▲	Second 8	

4. Select the signal source to play works in dual channel or single channel mode, and check whether to use fade during dual channel mode.

Operating Mode	Single channel	•	AB
----------------	----------------	---	----

5. Users can control the image position and size by change the data or click the drop-down arrow.

Image1						
Scale						
X O	🜩 Y 0	😫 Width 640	😫 Height	480 🌲		

6. When device works under the single channel mode, click the interface Icon.

Red box indicates current interface has been selected as the input interface;

When device works under the dual channel mode, need to switch image 1 and

image 2 set input signal one by one. Image1 Image2

Users can see the image 1 and image 2 input source information in the input source toolbar after setting. Shown as the picture:



ET ATION

7. When you finished above step, click button **set** to finish adding" tasks plan".

Click button get, you can see the input source, playing time, image size, position etc. of the current "tasks plan"

Users can see all the "tasks plan" relevant content through "Timer index"

switching Timer Index 1