

Dual-View Video Processor

User Manual







The **MX-5022 Dual-View Video Processor** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the **MX-5022** should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



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INTRODUCTION

The **MX-5022 Dual-View Video Processor** provides the most flexible and cost effective solution in the market to route high definition video source from any of the two HDMI sources to the remote display at the same time. This solution is well suited for use in home theater, conference room presentation systems or other similar setting or application.

FEATURES

- 2 x Dual DVI inputs and 2 x Dual DVI outputs
- Input resolutions support from 640x480 to 1920x1200, interlaced or progressive
- Output resolutions support from 640x480 to 1920x1200, progressive
- Adjustable size & position through software
- The layouts are individual on the different output
- Firmware upgradable for support of new features and technology enhancements.
- Titles, borders and colored backgrounds
- Resize, position, zoom& pan and blend output video
- Perfectly as a video screen splitter, a video converter and a video switcher
- Software control through RS-232 and Ethernet
- Each dual output has an independently controllable area.
- Supports input rotation.
- 1U size

PACKAGE CONTENTS

- 1x MX-5022
- 1x DC 12V 5A
- 1x Installation software CD
- 1x User Manual
- 1x IR Remote control (28 keys)

SPECIFICATIONS

Model I	Name	MX-5022				
Technical						
Role of usage		Multiplexer / video processor				
Background video input		No				
HDCP compliance		HDCP 1.1				
Video bandw	idth	DVI [Single-link 4.95Gbps] HDMI [2.25G to 6.75Gbps]				
Video suppor	ť	480i / 480p / 720p / 1080i / 1080p60 /1920x1200@60 / 1600x1200@60				
Video Forma	t Support	DVI/HDMI				
Audio suppor	ť	No				
Control		RS-232/ IP Control				
Embedded vi	deo mixer	Yes				
Input TMDS signal		1.2 Volts [peak to peak]				
ESD protection		Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]				
Input		2x DVI/HDMI + 2xRS-232 + 1x RJ-45(Ethernet)				
Output		2x DVI				
DVI connecto	or	DVI-D [female, 29-pin]				
RS-232 conn	ector	DE-9 [9-pin D-sub female]				
RJ-45 conne	ctor	WE/SS 8P8C				
Mecha	nical					
Hous	ing	Metal enclosure				
	Model	290 x 211 x 43mm [11.4"x8.3"x1.7"]				
Dimensions (L x W x H)	Package	325 x 196 x 92mm [12.7"x7.7"x3.6"]				
· · · ·	Carton	490 x 426 x 352mm [1'6"x1'4"x1'2"]				
Woight	Model	2.9kg [6.4 lbs]				
Package		5kg [11.1 lbs]				
Fixedness		1RU rack-mount with ears				
Power s	supply	12V 5A DC				
Power Con	sumption	5.75 Watts [max]				
Operation te	mperature	0~40°C [32~104°F]				
Storage ten	nperature	-20~60°C [-4~140°F]				
Relative h	numidity	20~90% RH [no condensation]				

HARDWARE INSTALLATION

MX-5022 as master

- 1. Connect all sources to DVI/HDMI Inputs on the MX-5022.
- 2. Connect all display to DVI/HDMI Outputs on the MX-5022.
- 3. Connect the +12V 5A DC power supply to the MX-5022.

CONNECTION DIAGRAM



PANEL DESCRIPTIONS

Front Panel



- Default Layout PAP: Default layout horizontal PAP/ vertical PAP Horizontal PAP: The light of button 6 is off. Vertical PAP: The light of button 6 is always shine.
- 2. Custom Layout 1-8

Custom layout 1-4: The light of button 6 is off.

Custom layout 5-8: The light of button 6 is always shine.

- Source Selection Button: window in full screen or source selection window Window in full screen mode: The light of button 6 is off.
 Source selection: The light of button 6 is always shine.
- 4. IR Sensor: IR sensor for receiving the IR commands from IR remote
- 5. Chroma key: Chroma key function on/off
- 6. Function Selection
- 7. Rotation: Rotate function on/off
- 8. OSD: All Windows OSD on/off

Rear Panel



- 9. Power Switch: Power on/off
- 10. +12V DC: 12V DC power jack
- 11. RS-232: RS-232 control port
- 12. RS-232: RS-232 control port for F/W update
- 13. Ethernet: Ethernet control port
- 14. Dip Switch: Switch factory reset mode [ON ↓]
- 15. Input 1-2: DVI inputs
- 16. Output: DVI output 2
- 17. Output: DVI output 1
- 18. USB 5V

OPERATION APPROACH

Method A: IR Remote Control



Method B: Software Control through RS-232 port / Ethernet port

System Requirement and Precautions

- 1. Whenever power off MX-5022, please stay unpowered at least 5 to 10 seconds to allow power capacitors to discharge.
- The MX-5022 provides software control program which runs under Microsoft Windows 98, 2000, XP, 7, 8 through the interface of RS-232 serial control.
- 3. Before you click on the icon of the software, make sure you have secured the connection between your computer COM port and the MX-5022.

Start the software control program

When clicking on the executable file, the following dialog will pop-up. It has two ways to control the MX-5022 device (under Microsoft Windows 7, please run as administrator).

RS-232 serial Mode: Use RS-232 to connect the port on device and computer. Select correct COM port and click the connect button.

TCP/IP Mode: Enter the device IP address and click the connect button.

•
5 •
Port:
. 168 . 1 . 245

After the software control setting is accomplished, it will enter directly to control interface.

Control Interface

2	•			• • • • • • • • • • • • • • • • • • • •		•
	Output 1: 100	- % 🔀 BKG Picture:	- 🕒 P 1 2	Output Resolution	ก: ดุธ0น-	3
		1				
	50 50 50		Ξ		3 4	
	** ** **			5 5	7 8 8	
10	50 50 51			Window 1		
Ser .				Window 2		
	** **			O Window 3		
			-	O Window 4		
	.					
	Output 2: 100	- % 🔀 BKG Picture:	- 루 🕒 P 3 4	Image Visible:	🔲 Visible	
		2 HStart 128		H Start:	0	6
	**	VStart: 5 Width: 221	=	V Start:	0	
V		Height: 82		Width:	200 📑	
••••••				Height:	200	
					Apply	
				Window OSD:	🔲 Enable	
				Border:	Visible	
				Blinking (Tally):	On Off	
	•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	Border Color:	· · ·	

1. PAP Panel

Display and adjust the window size, position.

In this part, it has the different control tool for PAP panel setting.

Output 1: 100 % Control percent: 10~100% to set the PAP Panel display/control size.
 Stretch: Fix the size ratio when the window is resizing.
 BKG Picture: Background picture: To set up the background picture of window.
 Window priority
 PAP mode
 Window 1 in full screen
 Window 2 in full screen

In addition, you can change the output layout by clicking the mouse left button. It has four different layouts (Dual Horizontal Output, Dual Vertical Output, Single Output 1, and Single Output 2).

2. Tool Bar list:

(1)



- Status: Get all information of the device and update this software state.
- (2) Port Setting: Pop-up the "Port Setting" dialog, user can change the connecting way.
- (3) 🙆 A

Advance Setting: In this function, user can set the no signal color, fade in/out effect, output control, background picture, window text, input text, OSD border, rotation, EDID and factory reset.

Advance Setting	Advance Setting
System Output Control Label Text OSD Border Rotat 4 System No Signal Color: Display no signal Label Fade In/Out (Input Signal) Fade In/Out (Background Image) Apply All Windows OSD Control Windows OSD Enable: On Off Borders Blinking: On Off	System Output Control Label Text OSD Border Rotat Window Custom Label Window 1: Window Window 2: Window Window 3: Window Window 4: Window Input Custom Label Input 1: Input 1: Input 2: Apply
Close	Close



Output Control Setting:

In this function, user can determine to turn on or off the HDMI mode and audio, and also can select the configuration of background picture.

🔀 Advan	ce Setting				Ĺ	x
System	Output Control	Label Te	xt OSD	Border	Rotat	4 >
) مے	Output Selection: Output Control		Output 1		•	*
1	HDMI Mode:		HDM	I Enable		
	Audio Mute:		Mute			
	Audio Selection:		Input 1		-	
				Apply		=
-E	Background Picture	Control-				
]	Picture Enable:		Enabl	le		
]	Picture Selection:		Picture 1		-	
1	Horizential Position	r:	Left		•	
	Vertical Position:		Тор		-	
			1	Apply		-
					Clos	•

Rotation:

For Rotation function, only window 1 can be applied.

Advance	e Setti	ng				×
Output Co	ontrol	Label Text	OSDI	Border	Rotation	EDII
R	otation	Function:		📄 Ens	ible	
Ro	otary ∛	lindow:		Windo	w 1	-
Ro	otary T	уре:		+90		•
As	ssistant	Window:		Windo	w 1	-
He	orizont	el Shrink:		Ena	able	
Ho	orizont	al Multiple:		1x		-
Ve	ertical \$	shrink:		Ens	able	
Ve	ertical l	dultiple:		1x		-
					Apply	
						Close

➤ EDID:

User can learn EDID from default or display. In addition, it also provides advance EDID function for user to edit, save and read.

Label Text OSD Border Rotation EDID Factory Res Input Port: Input I Init EDID Learning Output Port: Imput I Unput Port: All Input Imput I Input Port: All Input Imput I Input Port: All Input Imput I It is advance Setting: It is advance Setting: It is advance Setting: It is advance Setting: It is advance Advance Close Close Vinte EDID Control Close Vinte EDID File from computer. Open Save Read Write EDID File File<		ance S	etting							×								
EDID Learning	Labe	l Text EDID In	OSD Bo: Init aput Port	rder F	Rotation Il Input	EDI	D F Init	actory l ▼	Res 1									
Advance Setting: It is advance EDID functions that are inclusive of Editor, Saving, Reading and etc. Advance Close Close EDID Control Close Open Save Read Write EDID File Checksum Confirm EDID File Checksum Confirm EDID File Checksum Confirm Image: Distribution of the file form computer. Open Open <th></th> <th>-EDID C Ii</th> <th>Learnin; Putput Po: nput Port</th> <th>rt: O1 : A1</th> <th>utput 1 11 Input</th> <th>Le</th> <th>aming</th> <th>•</th> <th></th>		-EDID C Ii	Learnin; Putput Po: nput Port	rt: O1 : A1	utput 1 11 Input	Le	aming	•										
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FDID EDID File Checksum Confirm 0 1 2 3 4 5 6 7 8 9 A B C D E F 0 0 FF FF FF FF FF FF FF FF FF I 00 </th <th>EDIC</th> <th>) Contr</th> <th>ol</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Close</th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>X</th>	EDIC) Contr	ol						Close			-						X
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Factory Reset:

Click the Factory Reset button to do factory default reset. This default reset process will take about 10~15 seconds and it will be initialized all setting to original system state.

Advance Setting
OSD Border Rotation EDID Factory Reset
The "Factory Reset" will be initial all setting to orignal status. And the process would be cost 10~15 seconds.
Factory Reset
Close

(4) Chroma Key: It can turn on/off the Chroma key function and adjust the parameters of Chroma key.

Output 2 Chroma Key: 🔲 Enable Chroma Key Type: Binary Mode 🚽	1	
Noise Reduction: Enable Key Color Range Red: 15 ~ O ~ Green: 15 ~ O ~	Area Gain Key Color: Key->Nonkey: NonKey->Key:	0 (0) 0 (0) 0 (64)
Blue: 15 • ~ 0 •	NonKey:	0 (64)

(5) Crop function: This function is used to crop or clip an image.

Crop Function		
Preview Crop	- Window Rotating Contr	rl
Window 1 Window 2	Window 1	Window 2
	Window 3	Window 4
	Crop Control Crop Window:	Window 1 👻
	Crop Enable	📄 Array Enable
	Horizontal Array Total:	1
	Horizontal Array Start:	1
	Horizontal Array End:	1
Window 3 Window 4	Vertical Array Total:	1
	Vertical Array Start:	1
	Vertical Array End:	1
	Percent Type:	Array Percent 👻
	Percent Enable	📄 Pixel Enable
	Top: -1 👘 %	0 A Pixel
	Bottom 0 🏯 %	0 A Pixel
	Left 0 🌧 %	0 A Pixel
	Right 0 🍝 %	0 A Pixel
	-) Shrink, +) Extend	Apply

In the Preview Crop, it can preview the range and effect of video crop with the adjustment.

Crop Enable: Enable crop function

Array Enable: Enable array parameter
 The setup diagram is shown as below.



Percent Enable: Allows user to adjust video layout size by percentage concept.
 The setup diagram is shown as below.



> Pixel Enable: Allow user to adjust video layout size by pixels.

The video crop by pixel and percent are almost same. The differences come from the adjustment ratio.

(6) **1**

Version: Read the software and firmware version.

Version	X
When the current version is not sa version. Please update the firmwa fine operation	me with correct re for the software
Version	
Software Version:	Ver 1.2
Firmware Correct Version:	Ver 1.3
Status	
Firmware Device Version:	Ver 1.3

3. Output Resolution:

Set the output resolution. When setting the different resolutions, the parameters of PAP and custom layout (position and size) will accordingly change.

utput	Resolu	ution:
	1920 x	1080@60Hz
	1920 x	1200@60Hz
~	1920 x	1080@60Hz
	1680 x	1050@60Hz
	1600 х	1200@60Hz
	1440 x	900@60Hz
	1366 х	768@60Hz
	1280 x	1024@60Hz
	1280 x	960@60Hz
	1280 x	768@60Hz
	1280 x	720@60Hz
	1024 x	768@60Hz
	720 x 4	80@60Hz
	800 x 6	500@60Hz
	б40 x 4	80@60Hz
	~	1920 x 1920 x 1920 x 1920 x 1920 x 1680 x 1680 x 1600 x 1440 x 1366 x 1280 x 1280 x 1280 x 1280 x 1280 x 1280 x 1280 x 1024 x 720 x 4 800 x 6 640 x 4

4. Default layout and Custom layout:





 $\mathbf{\mathbf{b}}$

 \triangleright

Default layout: Use factory preloaded video layouts.



Custom layout: Use custom pre-saved video layouts

In this part, you can adjust the size and position of output screen. If you want to save the layout, please click the right button of mouse to save this layout into device.



5. Window selection and input mapping

For each display window, user can assign arbitrary video input here.

0	Window 1	Input 1 🔹 🔻
۲	Window 2	Input 2 🔹 🔻
۲	Window 3	Input 1 🔷 👻
0	Window 4	Input 2 🗸 🗸

6. Window setting

In here, you can adjust the size, position or other settings of the specified window.

Image Visible:	🔲 Visible
H Start:	0 🍨
V Start:	0 🎅
Width:	200 🚔
Height:	200 🚔
	Apply
Window OSD:	🥅 Enable
Border:	🔲 Visible
Blinking (Tally):	On Off
Border Color:	
Label Position:	Top - Left 🛛 🔻
Window Text:	🔲 Visible
Custom WText:	📄 Enable
Input Text	🔲 Visible
Custom IText:	🥅 Enable

Method C: Firmware Update

1. Unfold the Video Processor folder and choose the firmware update executable file. The firmware update window shows up as below.

Scan



2. Please select the correct COM port or click

button to connect the device.



4. If you want to change OSD (window label) font, please click "OSD Font Update" window and click Update button to change OSD font.



5. If you want to change the boot screen, please click "Splash Screen Update" window and click the button to select the graph which you want to write into the device.



WARRANTY

The SELLER warrants the **MX-5022 Dual-View Video Processor** free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables and power adapters are limited to a 30 day warranty and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the MX-5022 features and specifications is subject to change without further notice.