MAGNIMAGE

techVisionLed ®

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Product Manual   2018   MIG

MIG

About Magnimage

Shenzhen Magnimage Technology Co., Ltd, was founded in 2010, located in TCL International E City ,Nanshan, Shenzhen. It's a high technology company which is dedicated in the development, manufacturing and sales of LED/LCD/DLP large screen display control field equipment. Our products are designed for live event, conference, publicity, surveillance center, etc.

With the strong and experienced technical staff, we have great market reputation for video processor, switcher, video wall controller and accessories. These products have all passed CCC, CE, FCC, RoHS, and KC certificates and awarded the National High-Tech Enterprise.

We keep elevating ourselves and products to meet the market demand. With persistent efforts in technical innovation, we are confident to support clients in different applications.

Born for large LED screen

Magnimage LED video processors are developed for large LED screen display system, there are Numerous models of processor wildly use in stage rental, radio and television systems, variety show, product release, commercial applications, wedding etiquette and so on.

Magnimage using the industry's top image processing chip, advanced motion picture adaptive processing technology, it can eliminate the video image movement trailing and sawtooth, makes the image details clearer and richer in color. With advanced image scaling technology and strong capacity, Magnimage video processors are several times better than ordinary video processors, which support customize input / output resolution, EDID management and simple splicing, can cascade with same model products, to realize big resolution splicing easily.

Integrated numerous professional input ports, like DVI, HDMI, DP and SDI (loop) etc. which support VGA, DVI, SDI, DP expansion ports, support network, USB and RS232 serial for conveniently control among multiple video equipment.

LED-780H series

8 Input
9 Output
4K 3840×1080
EDID

4 screens mosaic by 1 processor, 9 million pixels

4 windows output, support 4 independent signals

Output monitoring(optional)

Mixed matrix input, seamless switching between 8 outputs

Preview switching

Customize input/output resolution

Multiple cascade

Rotary output

Genlock output and loop

Save and load presets

Extendable input signal

Low latency（16ms@60Hz）

LED-783H

4 screens mosaic by 1 processor, 9 million pixels

4 windows output, support 4 independent signals

Output monitoring

Mixed matrix input, seamless switching between 8 outputs

Preview switching

Customize input/output resolution

Multiple cascade

Rotary output

Genlock output and loop

Save and load presets

Extendable input signal

Low latency（16ms@60Hz）

8 Input
11 Output
4K 3840×1080
EDID

LED-580F series

4K input/output

Customize input/output resolution

Support DP input/output

Support PIP/POP

Support extended input/output port

2 screens mosaic by 1 processor, support multiple cascade

Preview switching

4 audio inputs (including 1 HDMI)

Support SDI input/output(optional)

7 Input **4** Output **4K** 3840×1080 **EDID**

LED-572E series

4K input/output

Customize input/output resolution

Support DP input/output

Support PIP/POP

Support extended input/output port

2 screens mosaic by 1 processor, support multiple cascade

Preview switching

Built in 4 sending card slots

Support SDI input/output(optional)

7 Input **4** Output **4K** 3840×1080 **EDID**

LED-550D series

Seamless mosaic

Fade in/out

Input signal hot backup

Customize DVI input resolution

Customize output resolution

Dual Channel image crop

Dual image

Multiple cascade

SDI input(optional)

8 Input

3 Output

FULL HD 1080 FHD

EDID

LED-760H series

4 screens mosaic by 1 processor, 9 million pixels

4 windows output, support 4 independent signals

Mixed matrix input, seamless switching between 7 outputs

Preview switching

Customize input/output resolution

Multiple cascade

Rotary output

Save and load presets

Extendable input signal

Low latency（16ms@60Hz）

7 Input

9 Output

4K 3840×1080

EDID

LED-500C series

Seamless mosaic

Input signal hot backup

Dual image

Accurate brightness control

Fade in/out

RS232 control

Multi−template application

SDI input(optional)

LED VIDEO PROCESSOR

7 Input

3 Output

FULL HD 1080 FHD
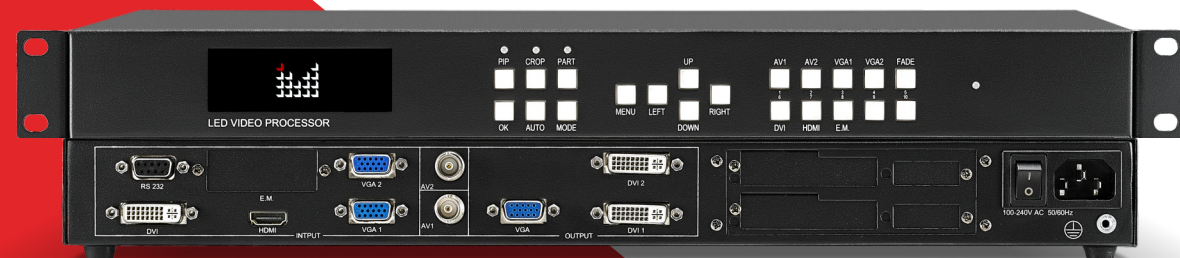
LED-500B

Image crop

Image freeze

Multi−template application

Zoom function

Part/full screen

Two sending card

DVI enhancement technology

LED VIDEO PROCESSOR

4 Input

2 Output

FULL HD 1080 FHD

Technical parameters

Input index	LED-780H	LED-783H	LED-580F	LED-572E	LED-550D	LED-760H	LED-500C	LED-500B
AV			2	2	2	2		1
VGA	2*	2*	1	1	2	2*	1	1
DVI	2+2*	2+2*	1	1	1	2+2*	1	1
SDI	1+2*	1+2*	1*	1*	1*	2*	1*	
HDMI	2+1*	2+1*	1	1	1	2+1*	1	1
DP	1+1*	1+1*	1	1	1	1+1*		
Audio			4					
Output index								
VGA			1	1	1		1	
DVI	4×2	4×2	2×1	2×2	2	4×2	2	2
SDI			1*	1*				
DP(Output/Loop)	1	1	1	1		1		
DVI Loop	2*	2*			1	2*		
SDI Loop	1+2*	1+2*	1*	1*	1*	2*	1*	
Audio			1					
monitoring	1*	1	1*	1*				
Machine specification								
Power supply	100~240V AC 50/60Hz	100~240V AC 50/60Hz	100~240V AC 50/60Hz	100~240V AC 50/60Hz	100~240V AC 50/60Hz	100~240V AC 50/60Hz	100~240V AC 50/60Hz	100~240V AC 50/60Hz
Power consumption	55W	55W	40W	40W	20W	55W	20W	20W
Operation temperature	0~45℃	0~45℃	0~45℃	0~45℃	0~45℃	0~45℃	0~45℃	0~45℃
Product dimension	482.0×452.0×66.75mm	482.0×452.0×66.75mm	482.0×301.3×66.8mm	482.6×304.0×88.0mm	483.0×288.0×54.5mm	482.6×452.0×66.75mm	482.0×257.0×44.45mm	482.0×240.5×44.5mm
Gross weight	6.0Kg	6.0Kg	4.7Kg	4.5Kg	2.6Kg	6.0Kg	3.7Kg	3.0Kg
Product Certificate	FCC、CE、RoHS、CCC、KC	FCC、CE、RoHS、CCC、KC	FCC、CE、RoHS、CCC、KC	FCC、CE、RoHS、CCC	FCC、CE、RoHS、CCC	FCC、CE、RoHS、CCC	FCC、CE、RoHS、CCC	FCC、CE、RoHS、CCC
Language	Chinese / English	Chinese / English	Chinese / English	Chinese / English	Chinese / English	Chinese / English	Chinese / English	Chinese / English

Note：* optional

The King of video and image mosaic

Cyclone video wall controller is a high-performance image processing device with pure hardware architecture, which is specially designed for LED video wall with small pixel pitch. Cyclone video wall controller can realize seamless splicing and multi-layers functions, and it can be used in security monitoring, administration, military, exhibition, research and education. Cyclone video wall controller adopts hardware architecture on basis of high speed and capable FPGA array, and digital bus matrix. For all kinds of inputs sources, cyclone series video wall controller ensures original signal recovery by adopting RGB 24bits/60Hz internal processors, ensures high quality image output without delay and supports seamless splicing for multi-screens outputs by using a built-in-high-performance image scaling engine.

It adopts dual-DVI copy output, one DVI is for screen, another DVI is for monitor, or two outputs to sending card together, support sending cards cascade.custom output resolution, adopting to a variety of LED screen resolution to achieve pixel to pixel mosaic display. It supports different pixel pitch LED mosaic at the same time.

All output ports can be built-in pixel to pixel display of HD background.

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MIG-CL9000 series

- FPGA hardware architecture
- Support max 6 independent layers per output
- Support splicing for over 8 times scaled
- Support different pixel pitch LED screen splicing
- Internal 24 bit RGB processing
- 60Hz real-time processing
- Input signal EDID management
- 4k*2k inputs
- Seamless switching
- Layer grouping function

- Fade effect among any layers
- 9 mosaic windows per output (multi-preview)
- Customize output resolution
- Input/output preview
- Support pixel to pixel display HD native background
- Dual power for backup
- Dual DVI output cards
- Projector edge blending splicing
- Live monitor of system operation
- Real time monitor via TCP/IP

Technical parameters

Chassis type and specification

Type	MIG-CL9003-A	MIG-CL9004-A	MIG-CL9008-A	MIG-CL9014-A	MIG-CL9019-A
Input ports quantity	5	8	9	18	36
Output ports quantity	4	4	11	18	18
Control board quantity	1	1	1	1	1

Machine specification

Power supply	100~240V AC 50/60Hz	100~240V AC 50/60Hz	100~220V AC 50/60Hz	100~240V AC 50/60Hz	100~240V AC 50/60Hz
Power consumption	Max180W	Max350W	Max650W	Max1900W	Max2500W
Operation temperature	0~45℃	0~45℃	0~45℃	0~45℃	0~45℃
Product dimension	482.6×371.0×133.0mm	482.6×371.0×177.0mm	482.6×355.0×430.5mm	482.6×567.5×597.7mm	482.6×567.5×833.6mm
Net weigh	9.6Kg	11.0Kg	18.85Kg	40Kg	55Kg

Card type and specification

Input card type	Ports	Quantity	Specification
MIG-CL9000-INAV	AV	8	PAL、NTSC
MIG-CL9000-INVGA	VGA	4	VESA
MIG-CL9000-INDVI	DVI	4	VESA, support EDID
MIG-CL9000-INSDI	SDI	4	480i、576i、720p、1080i/p(3G SDI)
MIG-CL9000-INHDMI	HDMI	4	HDMI-1.3
MIG-CL9000-INDP	DP	2	DP 1.2 3840×2160/30 Hz
MIG-CL9000-INIP	IP	2	H.264
MIG-CL9000-INSDIVGA	SDI、VGA	SDI×2、VGA×2	SDI support 480i、576i、720p、1080i/p(3G SDI) VGA support VESA

Output card type			
MIG-CL9000-OUTDVI-A	DVI	2×2	1024×768/60Hz 1366×768/60Hz 1440×900/60Hz 1440×1440/60Hz 1280×1024/60Hz 1680×1050/60Hz 1600×1200/60Hz 1920×1080/60Hz
MIG-CL9000-OUTDVI-B	DVI	4×1	2560×816/60Hz The user-defined output resolution is 2560 for maximum width or 2560 for maximum height
MIG-CL9000-OUTIP	IP	1	Real time IP monitoring

* It has FCC,CE,RoHS,CCC,KC and multiple certificates

Make wonderful video and image changing rapidly

Video switcher manufactured by MIG, designed to solve the problem of seamless switching in the process of video image display.

Video switcher adopts hardware architecture on basis of high speed and capable FPGA array, and digital bus matrix. Video switcher ensures original signal recovery by adopting RGB 24bits/60Hz internal processors, ensures high quality image output without delay and supports seamless splicing for multi-screens outputs by using a built-in-high-performance image scaling engine. When host works with console,it realizes multi-layer and multi-scene switching, backup etc function, and it is widely applied in auto show, conference products launching,and stage show etc events.

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MIG-V4 series

Two main outputs splicing display (3840 x 1080@Hz)

1 main output, 1 multi-window preview

Main output support 4 layers and 1 HD background

Internal video matrix and up to 20 sources inputs

Support 20 input signals real-time preview

Support switching between 8 layers and 8 layers

Support HD native background capture

External synchronization and multi-machine cascade

Projector edge blending splicing

Work with MIG-H1 console

MIG-V2 series

One program output (1920x1080@60Hz)

One multi-window preview

Program output support 4 layers and 1 HD background

Support 12 mix video input sources

Capture function, support chroma key

Support genlock, multi-machine cascade

4 layer to 4 layer switch, various switch effexts

Work together with MIG-H1/MIG-H2

MIG-H1

Work with V4 or V2

Each H1 control up most 9 sets V4 or V2 or mixed model of them

30 presets, seamless switching between multi−scenes

T−BAR switch and control

Support group control of multiple host switchers

MIG-H2

Work with 1 set or multiple sets of V2 machine

Each H2 control up most 9 sets V2 machine

24 presets, seamless switching between multi−scenes

T−BAR switch and control

support group control of multiple host switchers

MIG-630C series

1 program output, 2 preview output

Preview switch, fade in/out

3 layers

Support HD LOGO and load

Customize input source (DVI)

Support 12 analog/digital signal input (SDI optional)

Multi−Template calling, chroma Key

12 Input **6** Output **1PGM** **2PRW**

12 Input **4** Output **1PGM** **1PRW**

MIG-620C series

1 program output, 1 preview output

Preview switch, fade in/out

3 layers

Support HD LOGO and load

Customize input source (DVI)

Support 12 analog/digital signal input (SDI optional)

Multi−Template calling, chroma Key

Technical parameters

Input index	MIG-620C	MIG-630C	MIG-V4-E	MIG-V2-E
VGA	4	6	2	2
DVI	4	4	8	4
SDI	2*	2*	2	2
AV	2	6		

Output index		MIG-620C	MIG-630C	MIG-V4-E	MIG-V2-E
PGA	VGA	1	1		
	DVI	1	1	2×2	1×2
PRW	VGA	1	2		
	DVI	1	2	2×2	1×2

Machine specification				
Power supply	100~240V AC 50/60Hz	100~240V AC 50/60Hz	100~240V AC 50/60Hz	100~240V AC 50/60Hz
Power consumption	75W	80W	260W	160W
Operation temperature	0~45℃	0~45℃	0~45℃	0~45℃
Product dimension	482.0×401.2×88.5mm	482.0×402.0×133.4mm	482.6×371.0×177.0mm	482.0×371.0×133.0mm
Net weight	6.3Kg	5.7Kg	14.6Kg	12.6Kg
Explanation			V4 standard configuration is 12 inputs (selected), the maximum extended can be 20	V2 standard configuration is 8 inputs (selected), the maximum extended can be 12
Product certificate	FCC、CE、RoHS、CCC	FCC、CE、RoHS、CCC	FCC、CE、RoHS、CCC	FCC、CE、RoHS、CCC

Provide perfect video solution

We provide various accessories including video converter, splitter, fiber extender, sending card box ect. Combined using with different kinds of video equipment, providing you the perfect video control solution and the best video play effect.

Monitor
MIG-2521

140°/120° wide viewing angle

VGA、DVI、AV multi-input and loop out

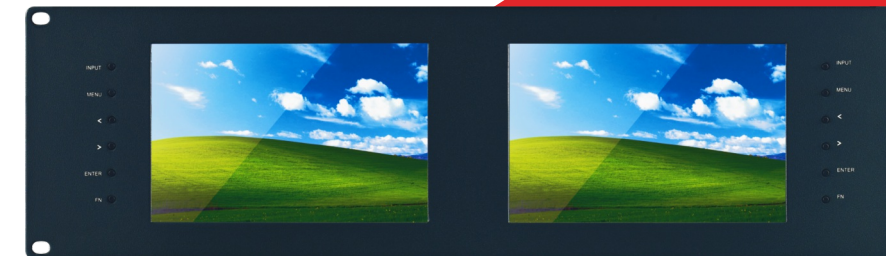High brightness 400cd/m²

High contrast 500:1

Monitor
MIG-2522

178°/178° wide viewing angle

AV、YPbPr、SDI、HDMI multi-input and loop out

High brightness 400cd/m²

High contrast 800:1

TALLY port

Format Converter
MIG-2134

One SDI input convert to one HDMI output, with one SDI loop out

One HDMI input convert to two SDI output (two SDI signals are copy mode)

Built–in audio transmission

Format Converter
MIG-2123

Support any DVI input resolution

Various SDI resolution output

Audio input, built–in SDI output

Format Converter
MIG-2132

Various SDI input resolution

Various DVI output resolution (optional)

Audio output

DVI Splitter
MIG-224/228

2 DVI input, 4/8 DVI output

Support EDID Management (DVI, HDMI,Study mode)

Automatic signal backup

Upper computer operation

Nondestructive cascade

LCD screen display

Button operation

Support HDCP
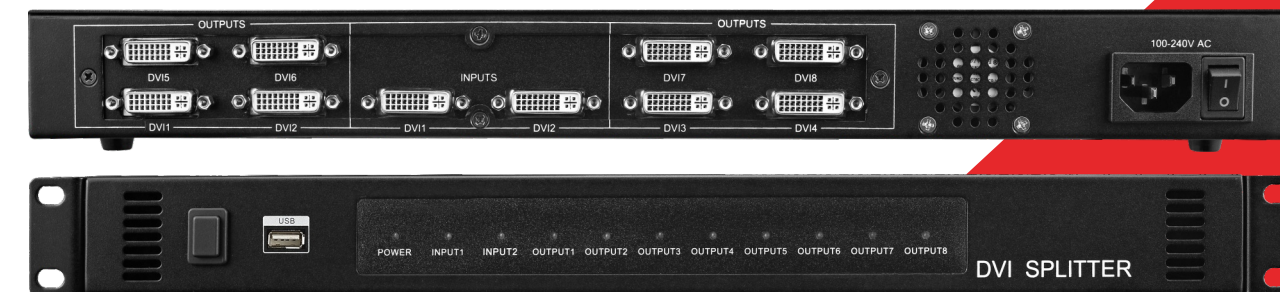
DVI Splitter
MIG-214/218

2 DVI input, 4/8 DVI output

EDID management

Automatic signal backup

Support HDCP

Upper computer operation

Sending Box
MIG-232L

Built-in two sending cards

Sending Box
MIG-239L

Built-in 9 sending cards

Convenient to connect with video processor