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16K IRREGULAR MATRIX



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The Irregular Matrix provides splicing applications for special space scenes, creative display needs and extremely customized display methods. Different from the traditional rectangular splicing expression method, PCVision Technology- Irregular Matrix can use a variety of different sizes, different resolutions, and placement methods at any angle for display wall combinations to create a variety of unconventional creative displays. , applications such as circles, triangles, trapezoids, arcs, etc. also support multi-layer superposition combinations at any angle.

◆ Advantages of Irregular Matrix ◆

Ultra HD resolution display

- Pixel to Pixel display quality, Without Pixel Scaler
- 4K 8K 16K Ultra HD image quality

Ultra-high performance Video computing

- 8K H.264/H.265 supports hardware decoding and playback
- 60~120Hz high refresh Rate tear-free

Powerful Dynamic splicing ability

- Supports splicing of monitors of different sizes
- The display supports any angle, any position, and any overlay.

Easy to Use software GUI

- Quickly setting
- Support Parameters Stored to file

Content generation Without Extra Cost

- Any window opening, cross-screen, roaming, and unlimited content overlay
- Easy to Create 4K 8K 16K advertising content is generated instantly and played smoothly

Powerful Content Editing and Generation

- 8K Video PIP/POP Trademark Picture Marquee IPCAM
- Rapid content generation, high flexibility, and significant reduction in production costs

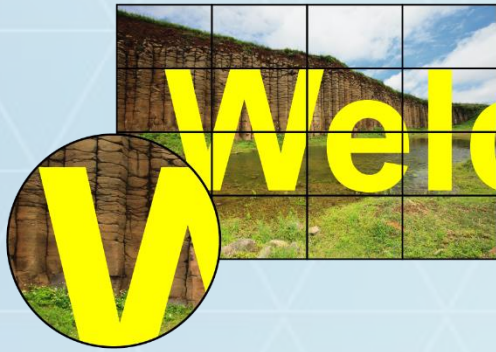
Flexible 3D effect generation

- Naked-eye 3D effect video playback
- Choma Key feature real-time de-back stacking
- Support 3D game screen display (optional)

Automated schedule With PAD Control

- Automatically start playback after power outage/resume
- Manual/Cycle/Day, Week, Month Scheduled playback Support Android PAD Control

Key Advantage



Pixel to Pixel Display Quality



**Ultra-high Refresh Rate
without Display tearing**



Difference size Placement



Support Multi-Layer Overlay



Naked eye 3D effect





Video Chroma Key Feature



**Dynamic Video Window Size PIP/POP, No Limit Object Layer
Overlay, LOGO Banner..... etc.**



Product specifications

	
model	Geni Box Pro_IRGR Series
SYSTEM	
CPU	CPU Intel® Core™ i7 9700 4.7G/3.0G 12M Cache 65W with HD630
Memory	DDR4 16G
Storage	256GB SSD
OS	Win10/11-Pro 64Bit (Professional version)
Max stitching output resolution	7680x7680
HDMI Output Max Resolution	1920x1080/3840x2160@60Hz
GPU	GTX30xx 12GB
Display reverse function	Landscape / Portrait
Edit schedule playback control software	16K 3D visual advertising editing and scheduling playback Android Tablet Control APK
Input and output interface	
Display output interface	4~16 x HDMI 1.4 / 2~8 x HDMI 2.0
Sound	5 x 3.5mm; 1 x S/PDIF
USB	2 x USB 2.0, 4 x USB3.0
HDMI 1.4 / 2.0 Video Capture	Optional 2K/4K
3G/12G SDI Video Capture	Optional 2K / 4K
Network port	2 x RJ45 (10/100/1000Mbps) / 2 x Wi-Fi Antennas
Dimension & Operation Environment	
power supply	550 WATT
FAN	4 x PWM
Material	Aluminum / Metal
Dimension (H x W x D)	47mm x 435mm x 456mm
Weight	9~12 Kg

Visuade™ Easy-to-operate professional-grade advertising editing and playback software, which can quickly open windows, roam, overlay, quickly layout, intuitively add any media objects, supports multi-language simple operation interface, customized scene plan editing and playback, 16K vector image quality processing technology, virtual irregular splicing Effect, quickly generate professional scene plans, 8K AI image input with instant de-matting capabilities, naked-eye 3D special effects display, ultra-high image quality and ultra-low cost, the best advertising content generation solution..

Visuade™ Specification Table

Script Editor	Mode	Control Mode	Feature
Object Layer Control	Multi-Layer	Local - Single Mode	Editor / Player
Object Location / Size Control	Dynamic Location / Size	Remote - Editor Mode	Editor / Player
Object Overlay Control	Dynamic Overlay	Remote - Player Mode	Player
Schedule Control	Function	Setting	Function
Loop Mode	Looping by Timer	SYSTEM On/Off Timer	MON~SUN (Support PCV Platform)
Manual	Pad / Keyboard Control /API SDK	Pre-Load Script	1~64 (Depend SYSTEM MEM Size)
Daily	Control By Timer Table	Video Input Function	Audio-Off/Video-Broadcast
Weekly	Control By Timer Table	GUI Scroll-Bar Control	Dynamic UI Size ADJ (LED _Wall)
Monthly	Control By Timer Table	Multi-Language	ENG/T-CHT/S-CHT/JPN/Korea
		BG/Stand-by Image	Default / Customer Define
		Single Cline Control	Control by Password
Object Player	Function	Object Player	Function
Multi-Video SYNC Player	Max SYNC 16 Video	Region Weather / Time	Customize Clock Color / Style / Type
	SYNC by Start		Weather Info Type
Video Player	Customize video File play area		Clock Type
	Customize Video Range	Audio	Audio file / Folder
	Display Matrix	Photo Image	Scrolling / Slideshow Play Mode
Video Input	Customize video Input play area	WEB Browser	WEB Page
	Display Matrix	Video Streaming	IP Camera
	Hot key On/Off Control		RTSP Protocol
Special Function	Application	Object Player	Function
OEM Logo	Customer Logo	Banner	Front/Background Color
Geometry Effect	X,Y,Z 3-Way View-Angle Auto-Scaler		Font Type / Moving Speed
Embedded Script	4 Script	Catchword	Front/Background Color
Auto-Ratio Control	Auto-Ratio by Display-Resolution		Font Type / Change Speed
Audio Channel of Video file	MB +GPU Audio CODEC	Motion Photo Image	Player Speed Control
Video File Play Range / Area	Customize ,90/180/270 Degree Rotation		BG Color, Display Ratio Control
Extend View Customize Area	Support PPT or Any Application, Mirror View	Effect of Image	Motion / Direction / Quantity
Video Input Play Area	Customize video Input play area		Rotation / Size / Transparency
Quick Auto-Play	USB SD Card		
3D Stereo Display	Active 3D Classes + PCV 3D-Video Splitter		
Video Capture Audio Bar	User Define Bar Size Location and no Audio Alarm		
8K Video Input Support	2SI / Quad-Link Mode		
Video Input Chroma Key	2K / 4K / 8K Mode		
Scene change special effects	Seamless switching / up / down / left / right / fade in and out		
File Type	Support Format	File Type	Support Mode
Image Photo File	JPEG (.jpg) / PNG (.png)	Audio	MP3 (.mp3) / MP2 (.mp2)
Image Photo File	BMP (.bmp) / TIFF (.tif)	Audio	Wave Audio (.wav)
Video File	AVI (.avi) / Video CD (.dat)		Windows Media Audio (.wma)
Video File	MPEG 1/2 (.mpg) / MP4 (.mp4)	Banner / Catchword	TEXT (.txt)
	Window Media Video (.wmv)		HDMI 或 SDI
	Apple Qucik Time (.mov)	Video Input	Streaming Address / RTSP
	ts/ mkv (.ts; .mkv)	IP Camera	URL
	m2ts / m2t(m2ts; .m2t)	WEB	PNG (.png)
	H.264/H.265/HEVC 8K Video File	Image Effect	

