

Ultra-High Resolution Modularize Design Video Wall System

Oct 2021



Ultra Matrix™ Product Function

Geni Box™ Product Function

Competitor Analysis

Product Roadmap

Visuade™ Product Function

Success Project

Selling Point

Q&A





Ultra Matrix™ HardWare Function

Ultra Matrix™ Key Function

Single Large Desktop
True 16K Display Quality

One GPU Approach
Multi-Display
GPU+CPU Dual
Processor

Embedded Hard
Code EDID

10bit Color Depth
Support Multi Channel Audio
Video Out for 2K or 4K

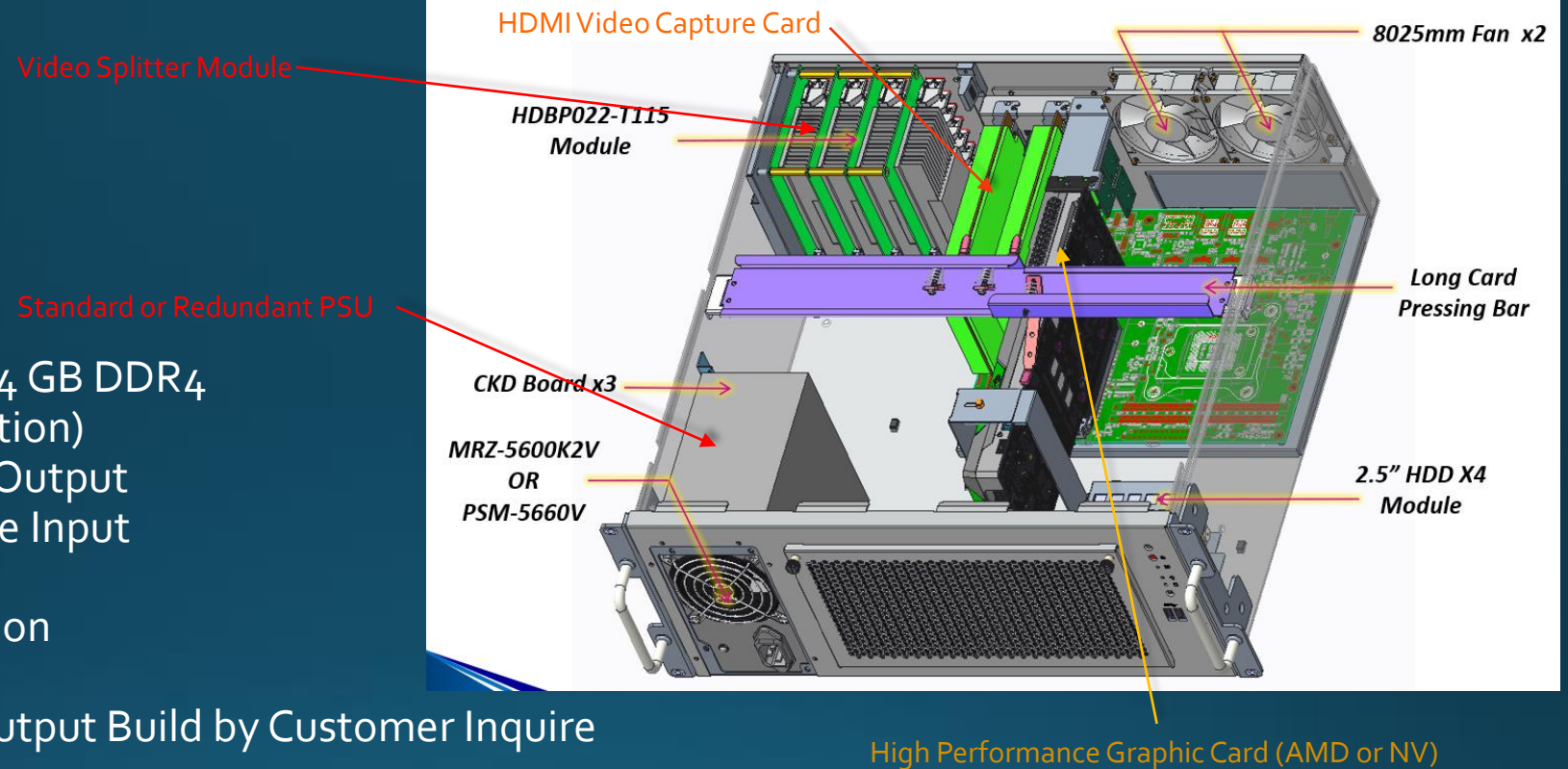
Video In for 2K or 4K
Customize Display
Resolution

Pattern Embedded for Diag
Module Design Easy Maintain

Ultra Matrix Pro™ Design Concept

Key Feature:

- * Intel 8th Coffelake i7 CPU with 16/32/64 GB DDR4
- * NV/AMD High Performance GPU (Option)
- * Single GPU approach 9~36 Port FHD Output
- * 12 Port 4K / 24Port FHD Video Capture Input
- * Embedded WIFI and BT Module
- * Max 16Kx16K Output Display Resolution
- * 8K Video Play back Ability
- * Modularize Design, Display Input & Output Build by Customer Inquire
- * Dimension WxHxD 481x186x479mm
- * Visuade™ Pro Professional Signage Edit/scheduling/Remote Control Video Wall Software



Ultra Matrix™



- A. 8~36 Port HDMI Out
- B. 2~24 Port HDMI Video Capture In Option (2K or 4K)
- C. Embedded High Performance GPU · Max 16K x 16K Display Resolution ◦
- D. Module Design easy for Maintain

Gini Box Pro 9 TM

Front View



Back View



Top View



- * Intel 8th i7 CPU with 16/32GB DDR4
- * Embedded RTX2070 with 8GB GDDR6 High Performance GPU
- * 3x3 5760x3240@20~120Hz Max+HDMIx1 Console Port
- * Reserve DP 1.4 x1 for Upgrade to FHDx12 Max Output
- * Each HDMI Output Resolution Adjustment by UMCC Utility
- * Support HDMI 4Kx4 or FHD x 8 Channel Video Capture Input (Option)
- * Embedded WIFI and BT Module
- * 8K@60 Fps Video Playback Ability
- * Dimension WxHxD 300x90x210mm with Wall Mount kit
- * Visuade™ Pro Professional Signage Video Wall Software
- * Model:PCV-GEMP-9



UMCC Utility for Display Resolution Setting

Gini Box Pro 16 TM

Front View



Back View



Top View



- * Intel 8th i7 CPU with 16/32GB DDR4
- * Embedded RTX2070 with 8GB GDDR6 High Performance GPU
- * 4x4 7680x4320/2x8 15360x2160@20~120Hz Max+ HDMIx1 Console Port
- * Each HDMI Output Resolution Adjustment by UMCC Utility
- * Support HDMI 4Kx4 or FHD x 8 Channel Video Capture Input (Option)
- * Embedded WIFI and BT Module
- * 8K Video Playback Ability
- * Dimension WxHxD 300x90x210mm with Wall Mount kit
- * Visuade™ Pro Professional Signage Video Wall Software
- * Model:PCV-GEMP-16



UMCC Utility for Display Resolution Setting

Gini Box-Pro 4K/8K™



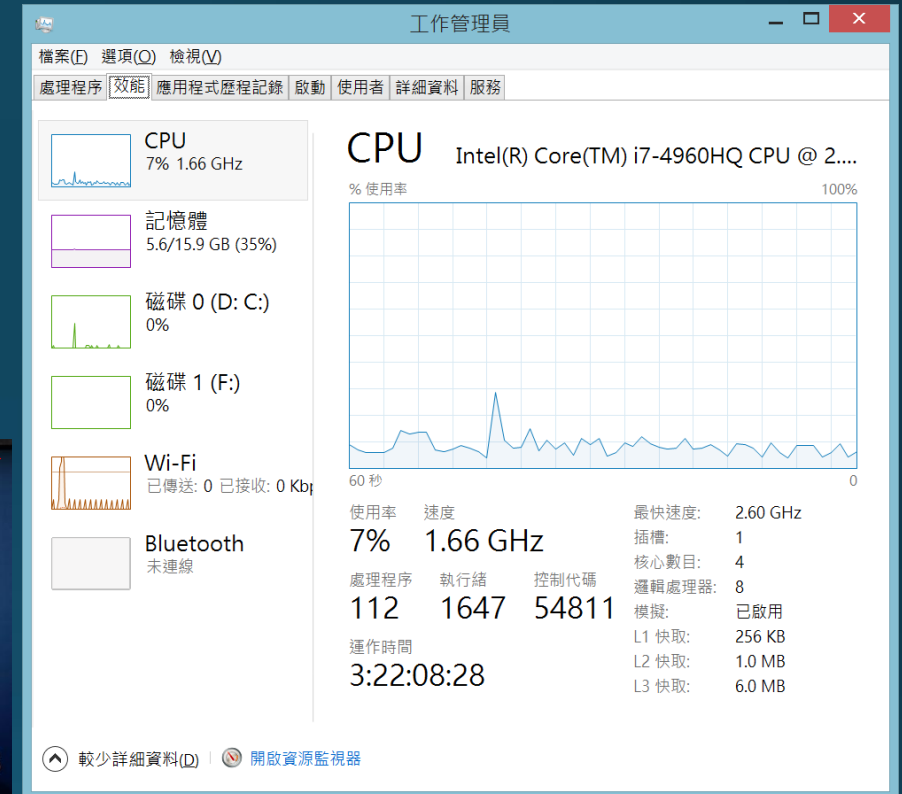
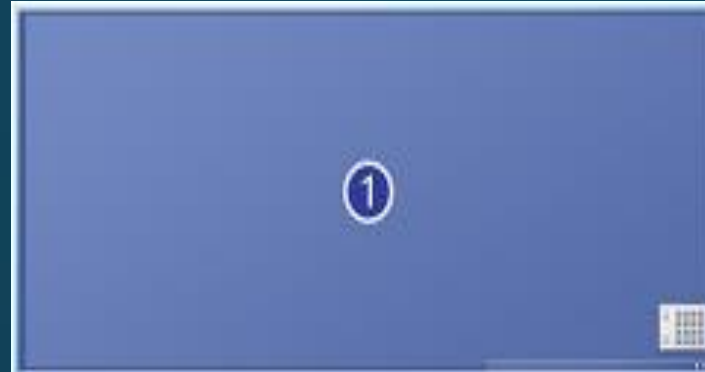
GeniBox-Pro Support 8 Port of 4K@50Hz by 2x4/4x2 Layout or 2 Port of 8K by 1x2/2x1 Layout



FHDx8 or 4Kx4 Port Video Capture HDMI interface

High Performance Video Wall

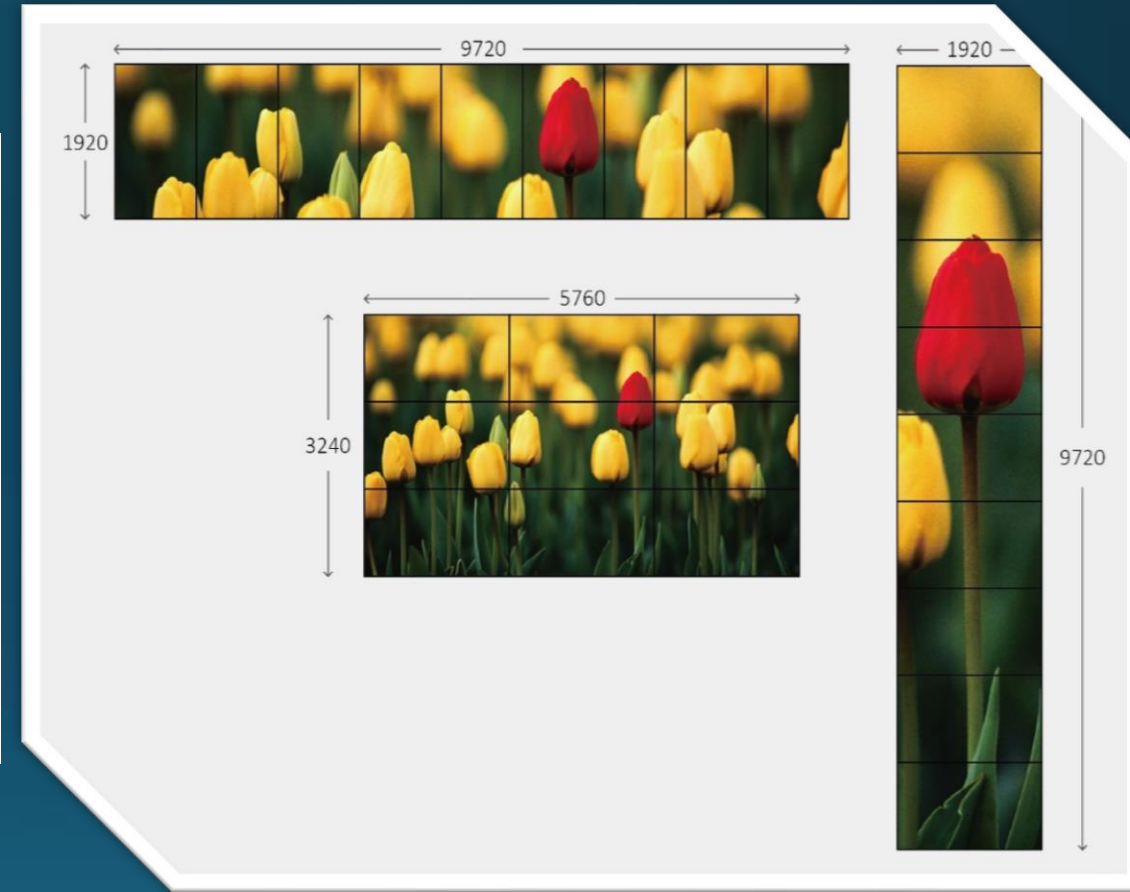
Single Very Large Desktop
(Windows/Linux)



Low CPU Utilization

Support Landscape & Portrait Mode

Vertical Solution					Horizontal Solution				
LCD/ports Q'ty	Layout		Display resolution (H x V)		LCD/ports Q'ty	Layout		Display resolution (H x V)	
	H	V	1920	1080		H	V	1920	1200
9 ports	3	3	5760	3240	8 ports	8	1	15360	1200
	1	9	1920	9720		4	2	7680	2400
12 ports	4	3	7680	3240		2	4	3840	4800
	1	12	1920	12960	12 ports	6	2	11520	2400
15 ports	5	3	9600	3240		4	3	7680	3600
18 ports	6	3	11520	3240	16 ports	4	4	7680	4800
21 ports	7	3	13440	3240		8	2	15360	2400
24 ports	8	3	15360	3240	20 ports	4	5	7680	6000
	4	6	7680	6480	24 ports	4	6	7680	7200
36 ports	6	6	11520	6480		6	4	11520	4800



Ultra Matrix™ Single Large Desktop Advantage

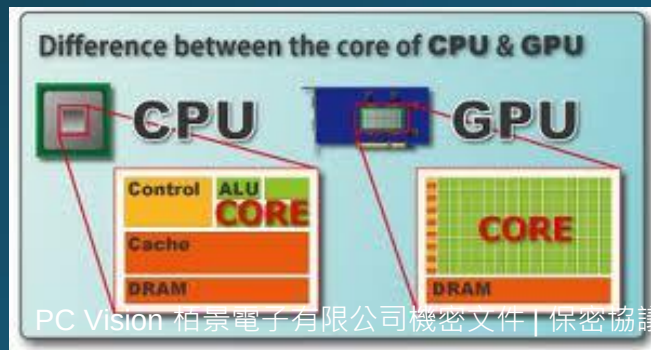


**16K Ultra High Resolution
without Image Scaling**

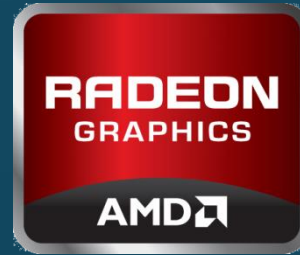
**Support Hardware Direct X 3D &
Video Decoder**

CPU + GPU Dual Processor

CPU + GPU Double Engine



All-In-One Module Design



Ultra Matrix
Power of GPU Multi - Resource



Quick Install Easy for Maintain

New Model : 8K AIO UMP-X Series



Advantage:

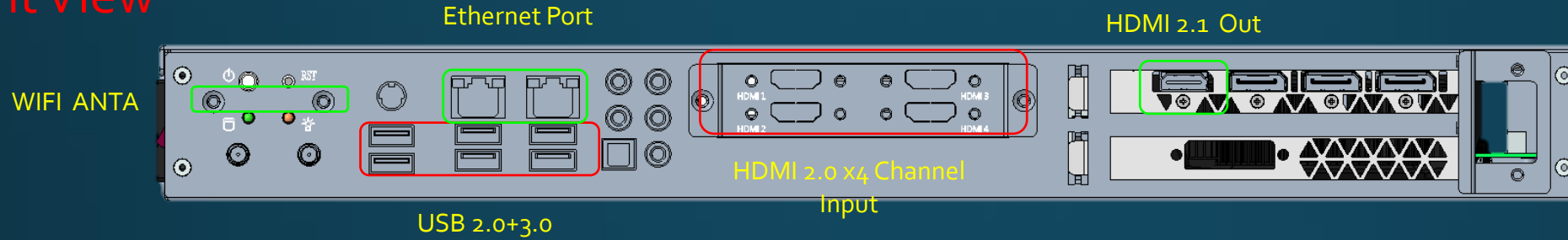
- * **8K Out**
HDMI 2.0 x8 Port support 8Kx2 and Surround to 16K or (**HDMI 2.0x4+HDMI 2.1x1 8Kx2 Support**)
- * **8K Free Display Splitter**
Provide more HDMI 2.0 x8 Port to Clone 8K Screen Image
- * **8K Camcorder Support (By 12G-SDI x4)**
Support 2SI and Qual-Link Video format become 8K Input
- * **8K Input Capture**
Support HDMI 2.0 x4 Port become to One 8K Screen
- * **Signal Transfer**
HDMI 2.0 x4 in to HDMI 2.1 8K x1 Out
HDMI 2.0 x4 in to HDMI 1.4 2Kx16 Out
12G-SDI x4 in to HDMI 2.1 Out
12G-SDI x4 in to HDMI 2.0 4Kx4 Out
12G-SDI x4 in to HDMI 1.4 2Kx16 Out
HDMI 2.1 in to HDMI 2.1 8Kx1 Out (Q1 2022)
HDMI 2.1 in to HDMI 2.0 4Kx4 Out (Q1 2022)
HDMI 2.1 in to HDMI 1.4 2Kx16 Out (Q1 2022)
- * **No Latency Delay for 8K Video Swap**
RTX3090 Super GPU Which can Pre-Load 6~8 8K Video file support Quick Change

New Function:

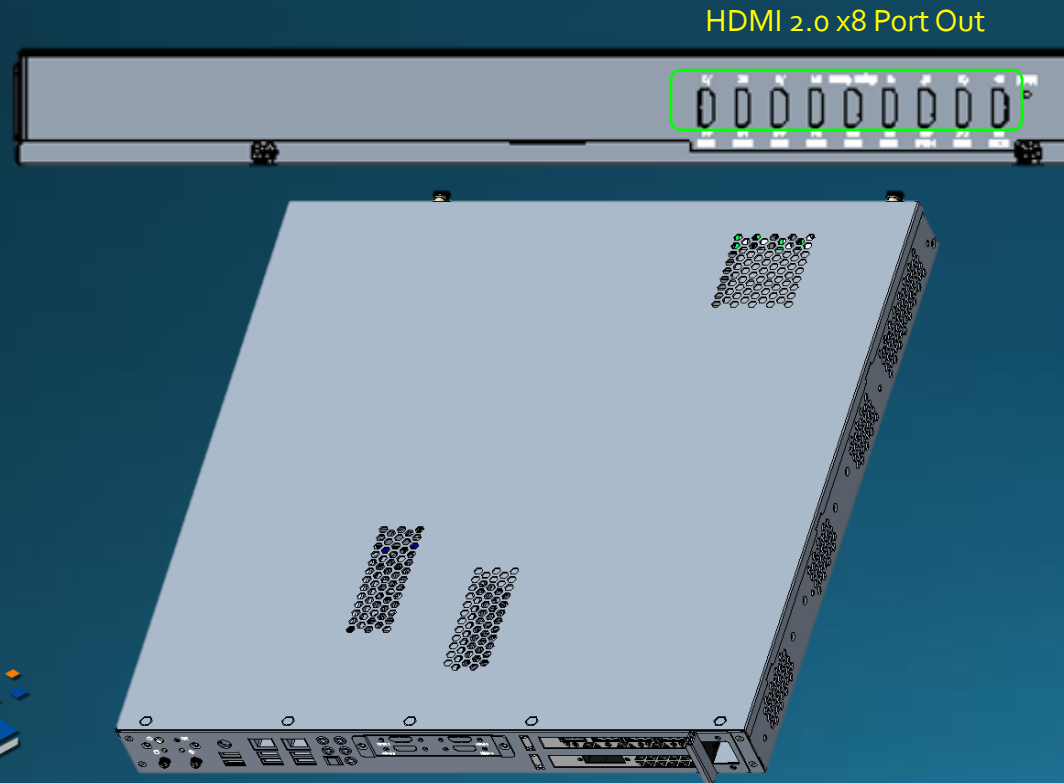
- * **HDMI 2.1 Direct out to 8K Display**
- * **8K Camcorder thru HDMI 2.1 in to 8K Display (Q1 2022)**

New Model : 8K AIO GB-X Series Slim type

Front View



Back View



Advantage:

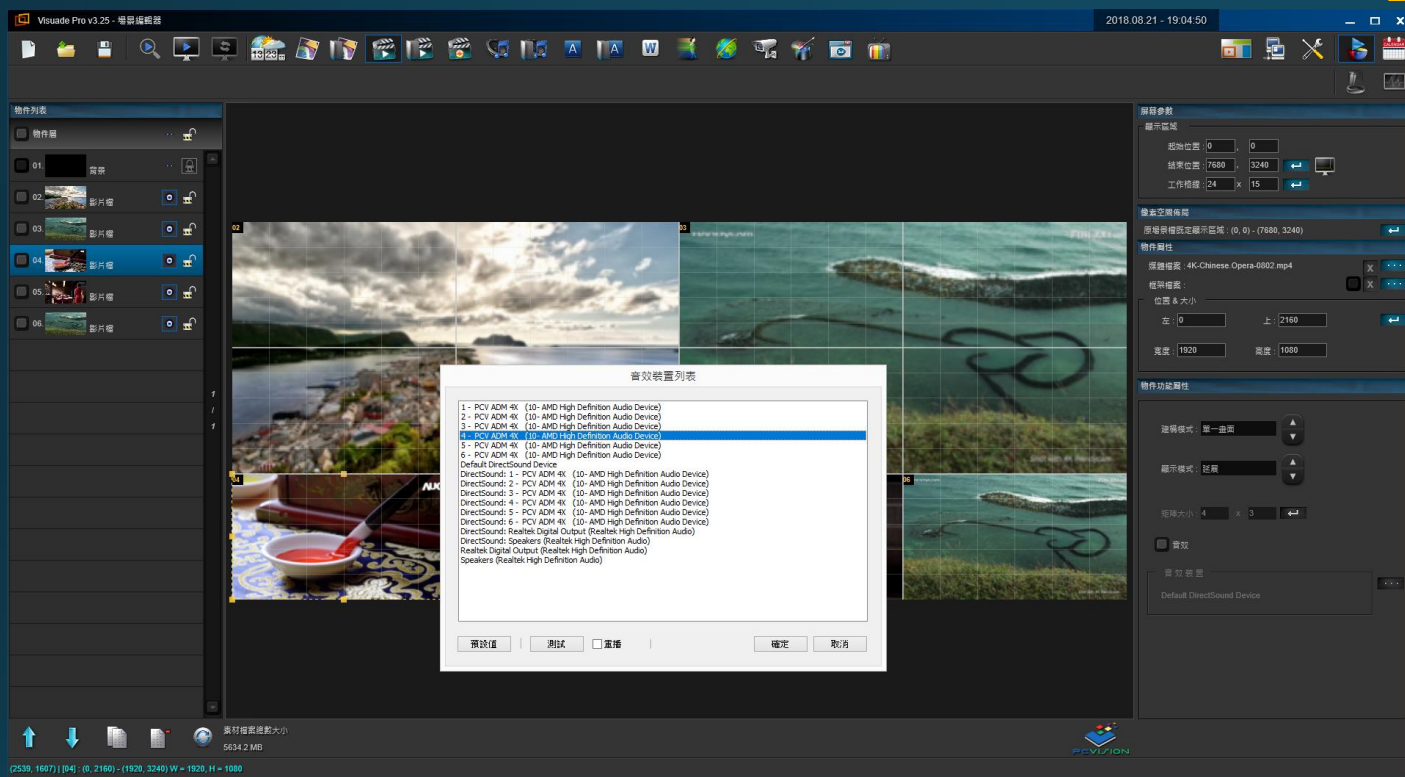
- * **8K Out**
HDMI 2.0 x4 Port to Support 8K LCD +HDMI 2.1 x1 Port for second 8K LCD
- * **Slim Design 1U Chassie 435mmWx458mmDx47mm H**
- * **8K Free Display Splitter**
Provide 4 more HDMI 2.0 Port 8K Clone 8K Image Screen
- * **8K Video input capture**
Thru HDMI 2.0 x4 Channel become to one 8K Video input by 2SI or Quad-Link Mode
- * **Video Signal Transfer**
HDMI 2.0 x4 8K in to HDMI 2.1 Out
HDMI 2.0 x4 8K in to HDMI 1.4 2Kx8 Out
- * **No Latency Delay for 8K Video Swap**
Embedded RTX3060ti Support GPU which can pre-load 3x8K Video support quick change

New function:

- * **HDMI 2.1 8K Out**

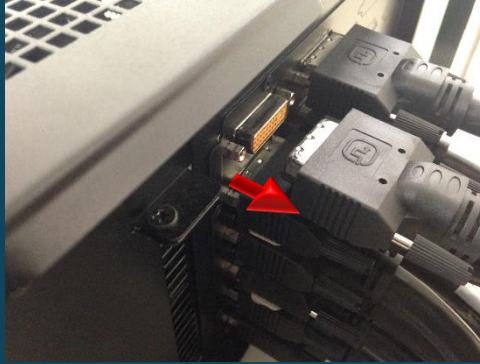
Multi-Channel Audio on Single PC

DVI Support Audio & Video(HDMI Protocol)

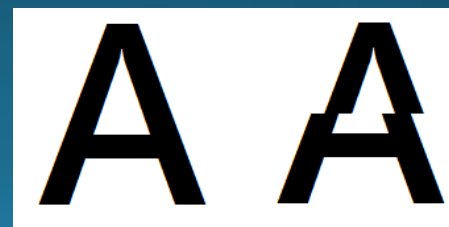


UMP Support Independ 7 Channel Audio Output
Geni Box Support Independ 4 Channel Audio Output

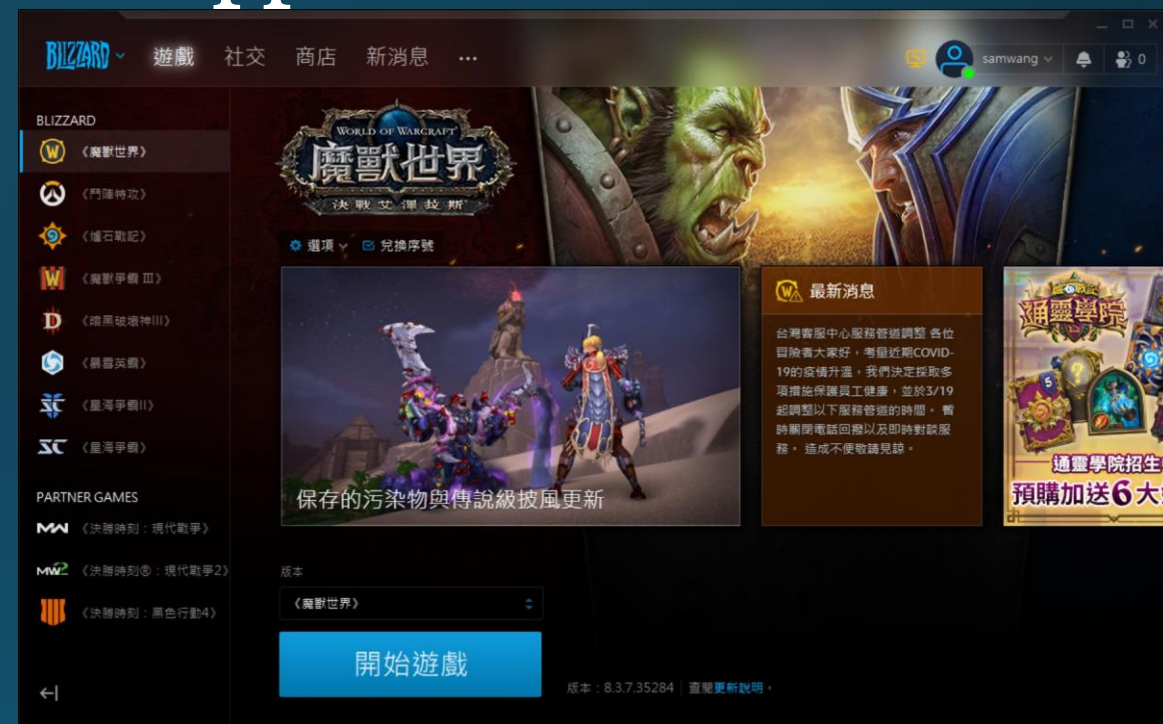
Hard Code EDID without Monitor Detect



Synchronization without Tearing



16K 3D Game Support



Easy Create 4K/8K/16K Motion AD



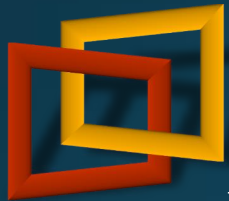
Ultra Matrix Pro-8K (New)

16K x 4K



OR

8K x 8K



Visuade™



- A. One PC with Single GPU Support 8K x2
- B. Support Portrait & Landscape Display Mode
- C. 16Kx4K or 8Kx8K Video Wall Application
- D. High Performance of 3D & 8K Video Decode
- E. Ultra High Display Quality & Performance with Visuade™ 3D Signage Software

Ultra Matrix Pro-4K Wall(**New**)

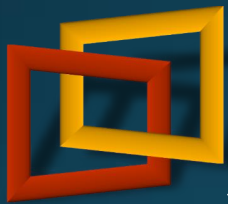
16K x 4K



OR



8K x 8K



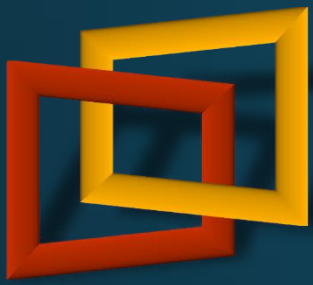
Visuade™



- A. One PC with Single GPU Support 4K x8
- B. Support Portrait & Landscape Display Mode
- C. 16Kx4K or 8Kx8K Video Wall Application
- D. High Performance of 3D & 8K Video Decode
- E. Ultra High Display Quality & Performance with Visuade™ 3D Signage Software

Ultra Matrix™ Product Roadmap





UMCC™ Ultra Matrix Control Center

Display Resolution Control

- Display SYNC Control
- Color Depth Control
- HDMI Audio Control
- Customize Display Resolution Control
- Vertical Rate Setting
- Horizontal Display Parameter Control
- Vertical Display Parameter Control
- Auto Pattern on/off Control
- Hardware Reset Function





Visuade™

Media Editing / Player Software

Visuade™ High Resolution Signage Player



High Resolution Signage Player



Visuade™ Professional Signage Software, Quickly define the content of the layout, support multi-style media files format, provide a user-friendly interface in multiple languages, Customize the schedule and plan the screen content, virtual irregular stitching, fast production of professional, low cost and high Quality commercial ADs



Feature

- ▶ Multi-Style Media ,Live Video Input , Video Streaming
- ▶ Multi-Language User Friendly Interface
- ▶ 16K Multi-Layer Motion Script Editor 2.5D / 3D Display Effect
- ▶ Android Pad Control-Script / Audio / Video Input Channel
- ▶ Fully Schedule Control - Manual / Auto / Daily / Weekly / Monthly
- ▶ Support USB/SD Card Auto-Play
- ▶ Embedded Sample Script

Visuade™ Specification

Script Editor	Mode	Control Mode	Function
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)
Daliy	Control By Timer Table	Video Input Function	Audio-Off/Video-Broadcast
Weekly	Control By Timer Table	GUI Scroll-Bar Control	Dymaic 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-SYNC Video Player	Max SYNC 6 Video	Region Weather / Time	Customize Clock Color / Style / Type
	SYNC by Start		Weather Info Type
Video Player	Customize video File play area		Colock Type
	Customize Video Range	Audio	Audio file / Folder
	Displ;ay 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 Potocal

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		Player Speed Control
Video File Play Range / Area	New Customize ,90/180/270 View Angle	Motion Photo	BG Color , Display Ratio Control
Extend View Customize Area	New Support PPT or Any Application, Mirror View		
Video Input Play Area	Customize video Input play area		Motion / Direction / Quantity
Quick Auto-Play	USB SD Card	Effect of Image	Rotation / Size / Transparency
3D Stereo Display	New Active 3D Classes + PCV 3D-Video Splitter		Rotation Angle Adjusment

File Type	Support Format	File Type	Supoport Format
Image Photo File	JPEG (.jpg) PNG (.png)	Audio File	MP3 (.mp3) MP2 (.mp2)
	BMP (.bmp) TIFF (.tif)		Wave Audio (.wav)
	AVI (.avi) Video CD (.dat)		Windows Media Audio (.wma)
	MPEG 1/2 (.mpg) MP4 (.mp4)	Banner / Catchword	TEXT (.txt)
Video File	Window Media Video (.wmv)	Video Input	HDMI or SDI (Depend on HW)
	Apple Qucik Time (.mov)	IP Camera	Streaming Address / RTSP
	ts/ mkv (.ts; .mkv)	Web Page	URL
	m2ts / m2t(m2ts; .m2t)	Effect of Image	PNG (.png)



Contact : samwang@pcvision.com.tw

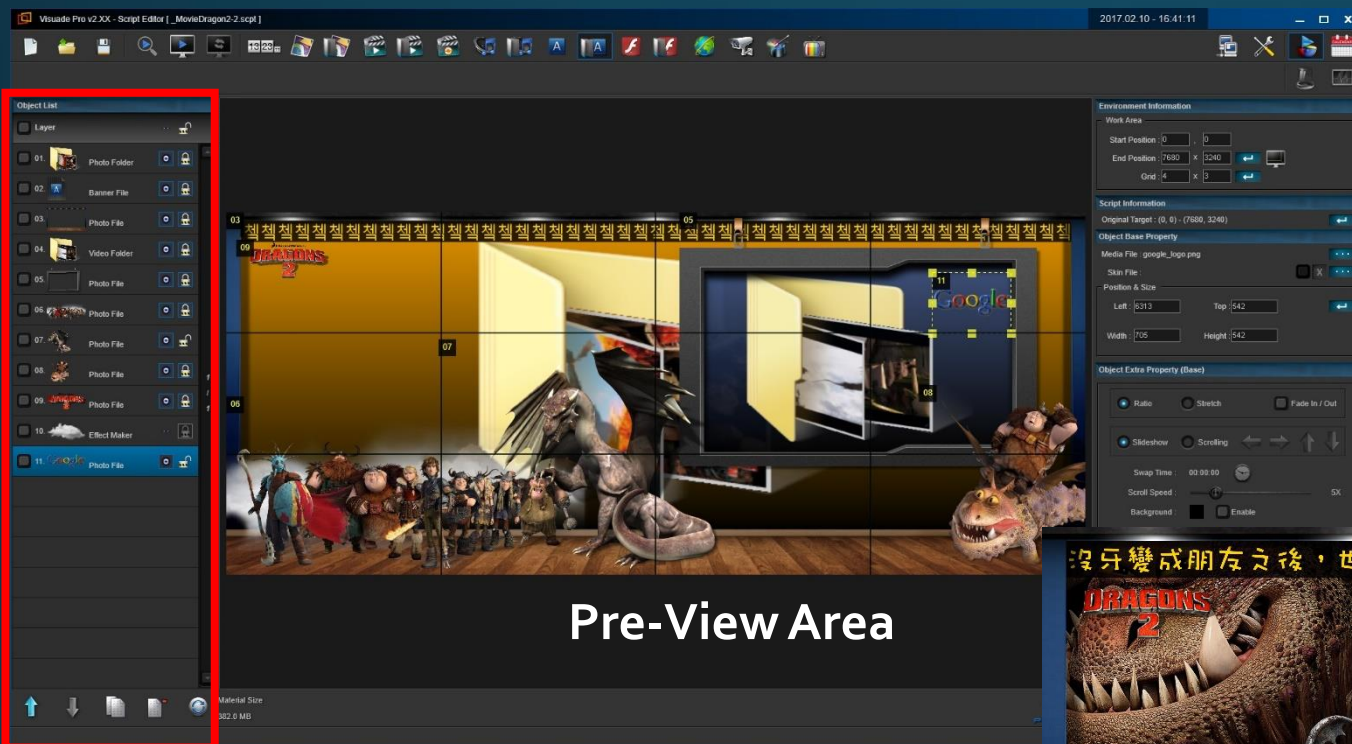
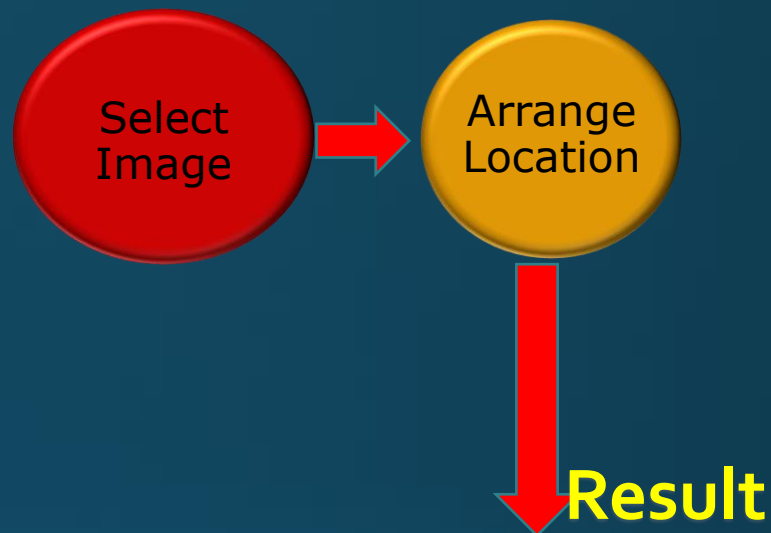
TEL : (886)02-2302-0330

Address:2F.,No,162,Xinzang Rd.,Wanhua Dist,Taipei City 10861, Taiwan R.O.C

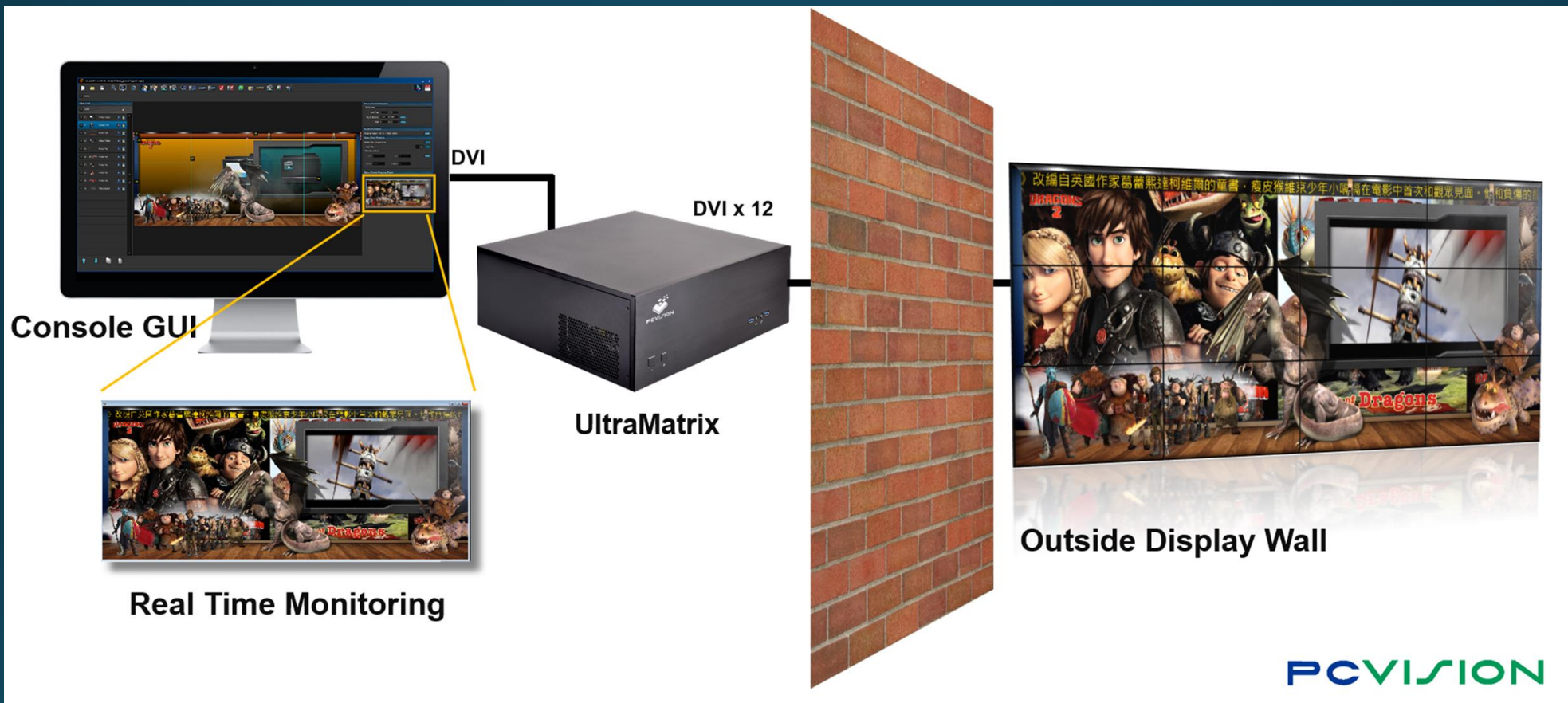
Web Site: www.pcvision.com.tw

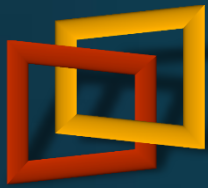


Easy & Quick to Made High Resolution Content



Console Monitor Function





Visuade™ Key Function

Picture

Multi-Video
SYNC Player

Background
Audio

Slogan

IE

Motion
Effect

Extend
View Capture

Video
Input
8K



World
Weather
Time



Video File



Alpha Video



Banner



Motion
Picture
Player



IP
CAM



3rd
APP



Video
Input
2K/4K

Daily Scheduling Setting

Weekly Schedule Setting

Monthly Schedule Setting

User Friendly Interface Design

Remote Setting

Remote Site

Operating mode :
01. Local
01. Local
02. Remote - Editor
03. Remote - Player

Remote Editor IP :

FTP Site

URL : 127.0.0.1

User Name : User

Password :

Root Directory : \

Ex : "FolderName"

Access Logic Drive : D

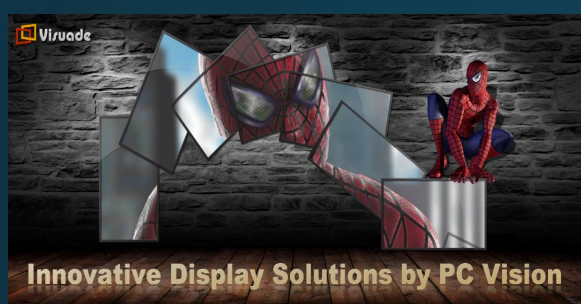
Remote
Control

Multi-Langrage, Automatic
On/Off...
Advance Setting



Remote Control
Editor
Schedule
3D Effect
Configuration Setting

Script Per-Load Scene Switch without Delay



Script Pre Load Advantage

- Scene switch no Delay, Fast then HDMI switch
- Support Manual Loop scheduling Script Per-Load
- Easy to use on any Scene
- High Performance, Fast than HDMI switch



Scheduling – Local Remote Control

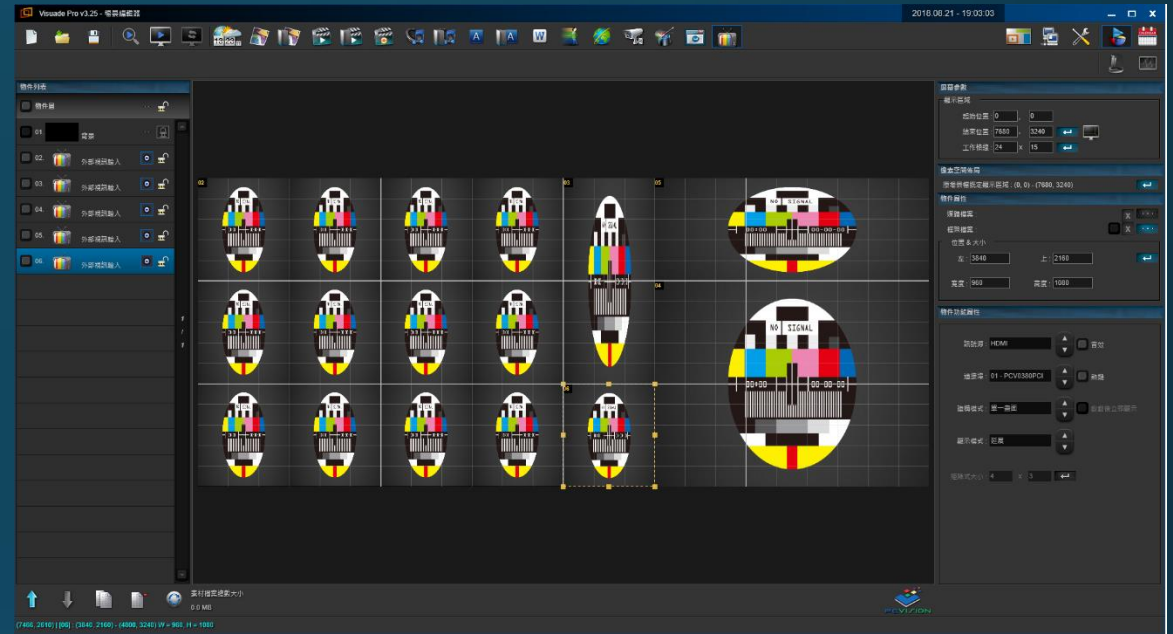
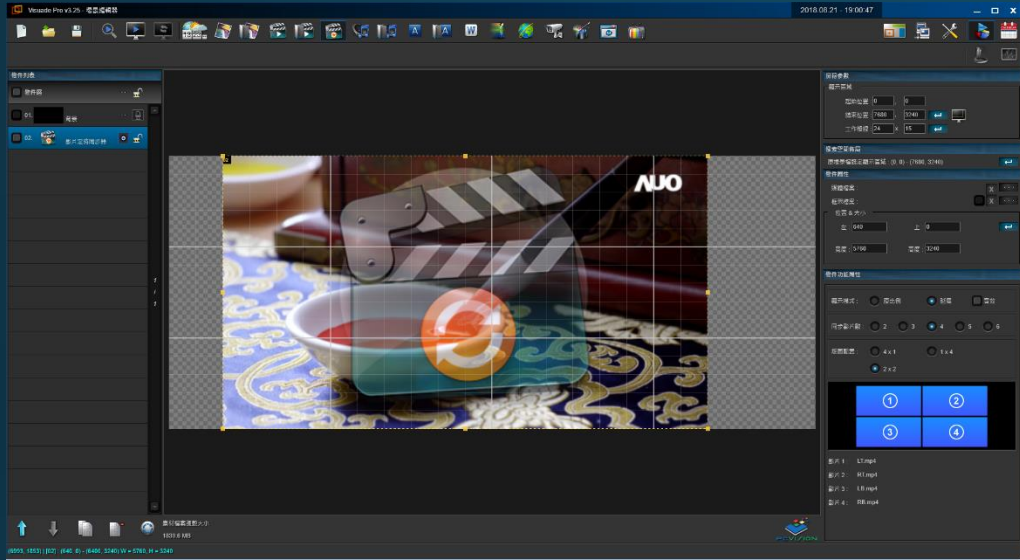
Schedule Remote Control

- Local Remote Control
- Script Quick change without delay
- User Friendly Design
- Install on Cell Phone or Pad
- Multi-Pad Control (New)



PCVISION

Advantage Function



Low CPU Usage for Multi-Task Video Image and Video Input

Multi-Video SYNC Playback, Reduce more 40% CPU Utilization



4K UHD 60fps video

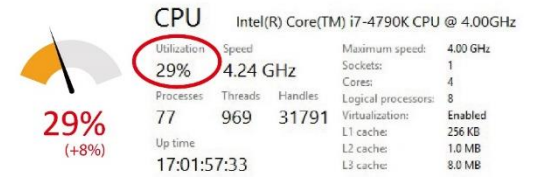
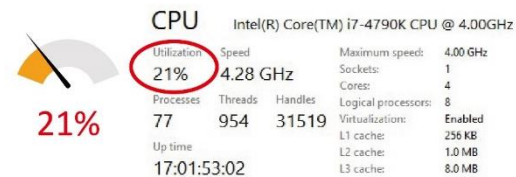
one video on matrix display



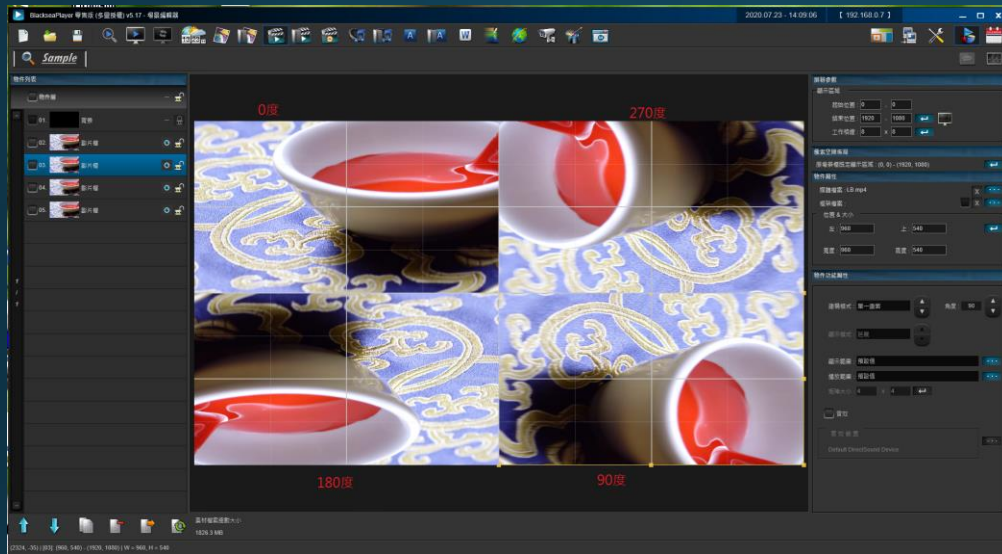
Clone 108 times



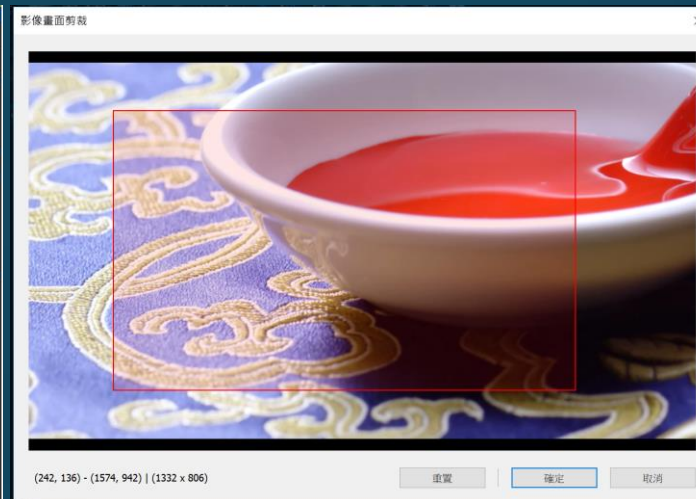
VS



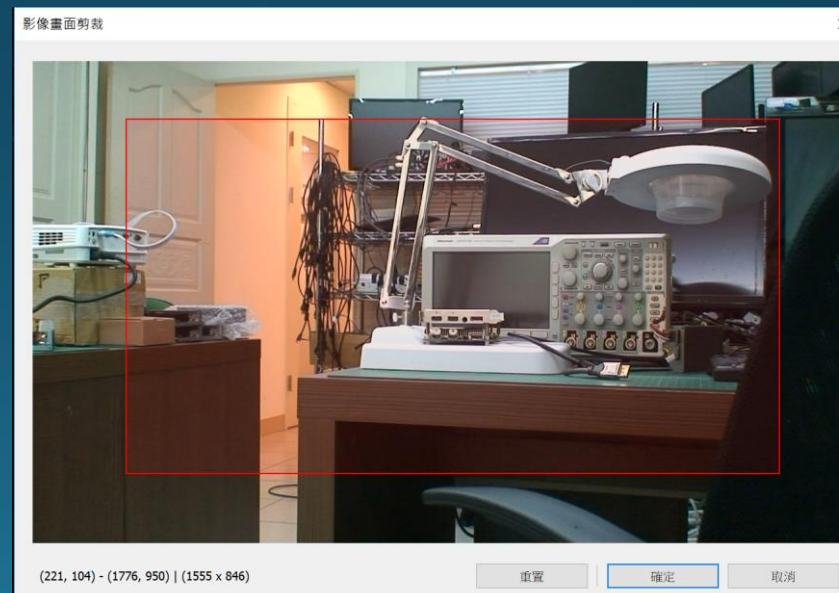
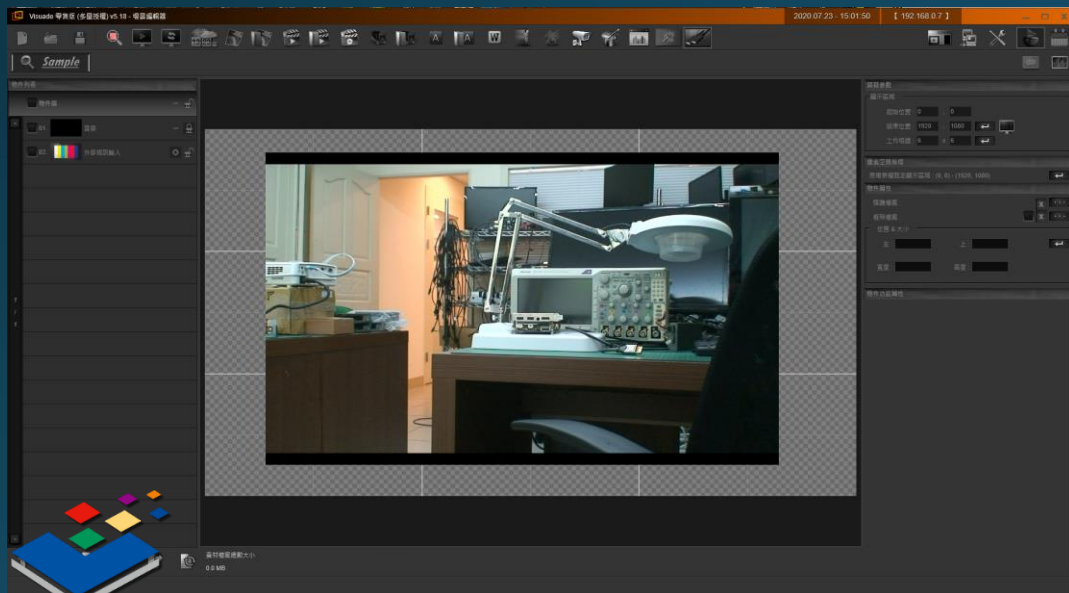
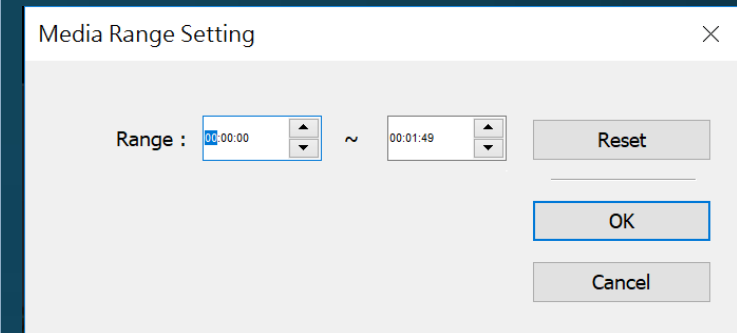
New Feature: Video Time Section / Display Area Control



Video File play by 4 difference View angle (0,90,180,270)



Customize Define Video File play Area



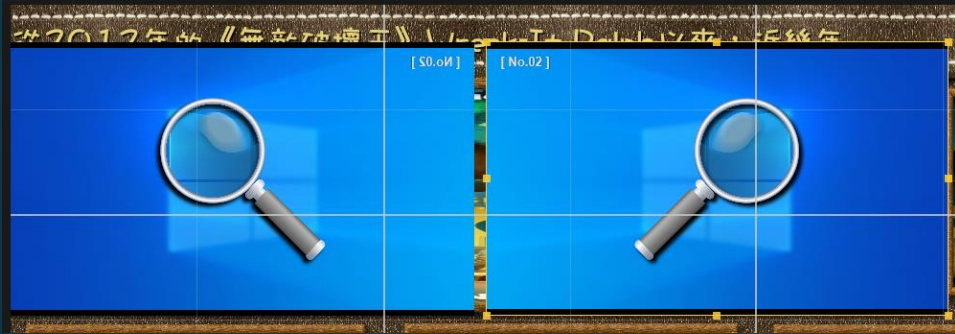
Customize Define Video Input Display Area

New Feature : Extend Monitor Screen Capture

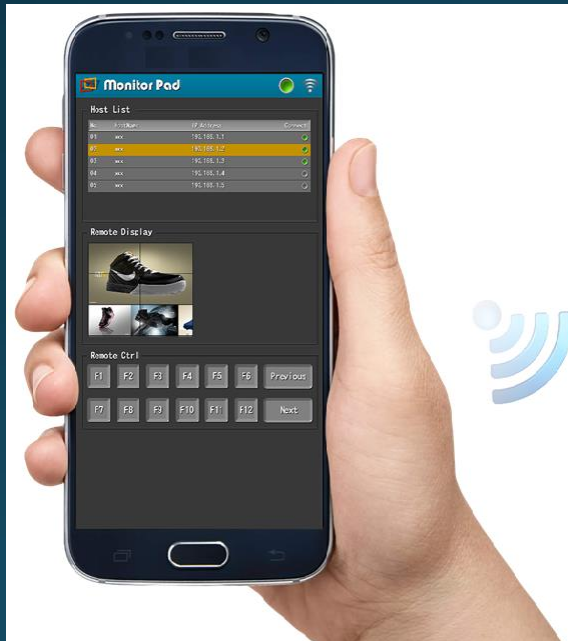


- One PC make screen content capture and Post on the TV wall screen
- Supports any software content Display on the TV wall
- Supports Microsoft PPT dynamic effect playback on the TV wall
- Hot key Control (PAD or keyboard) Extend View Content show/hide
- Customize Extend View Display Area
- Provide mirror reverse Display (rear projection display)
- Support 4 extended desktop content capture
- Extended desktop capture Support up to 8K resolution

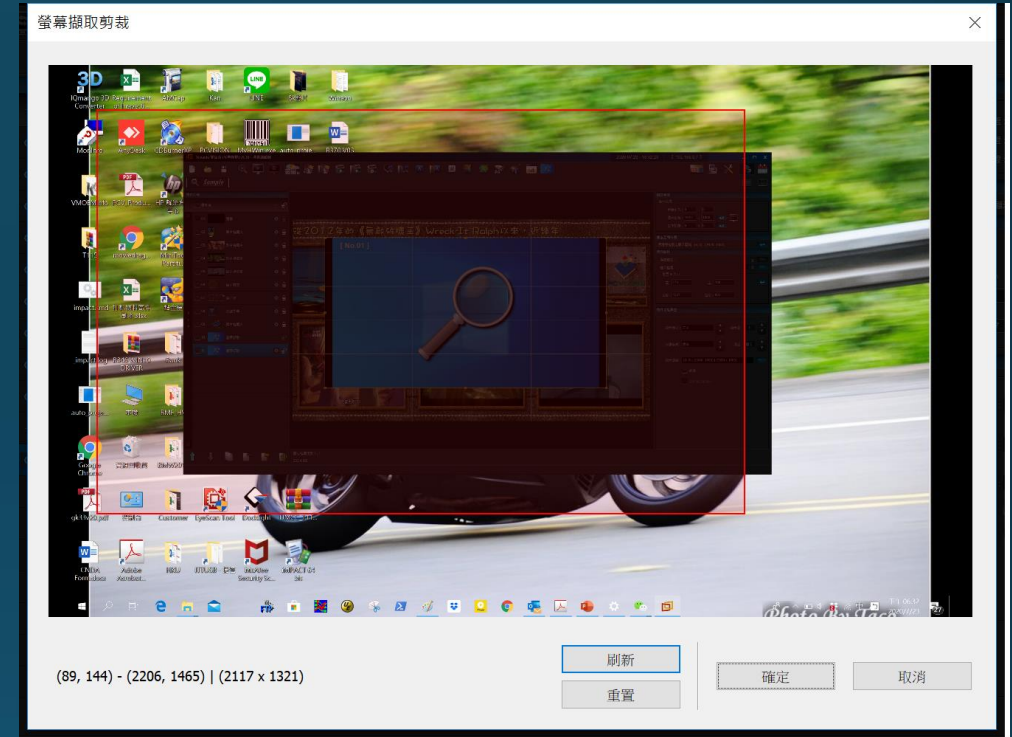
New Feature : Extend View



Provide mirror reverse Display



Hot key Control Extend View Content show/hide



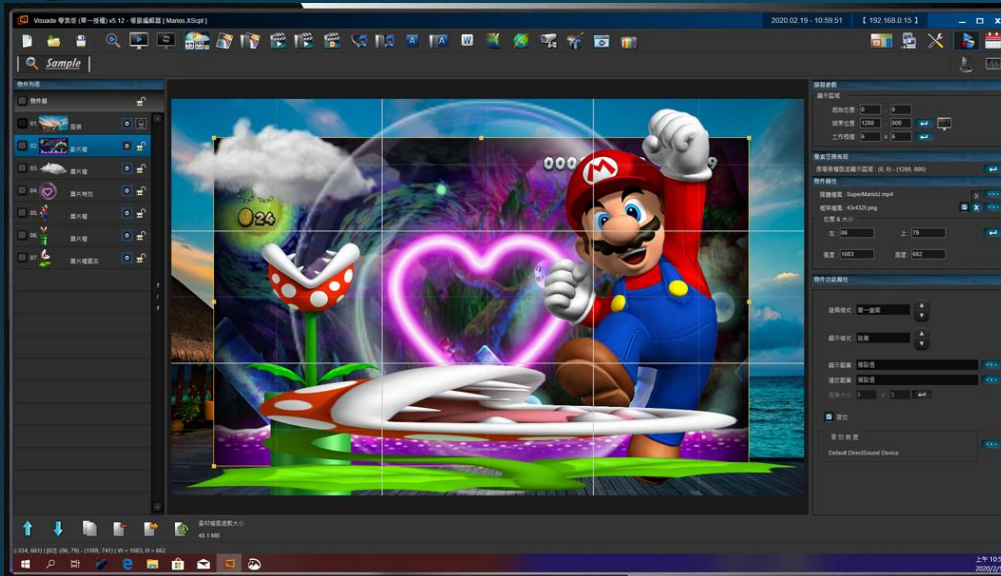
Customize Extend View Display Area



Support 4 extended desktop 8K Max Resolution



New Feature : Real Time 3D Content Editor/Play



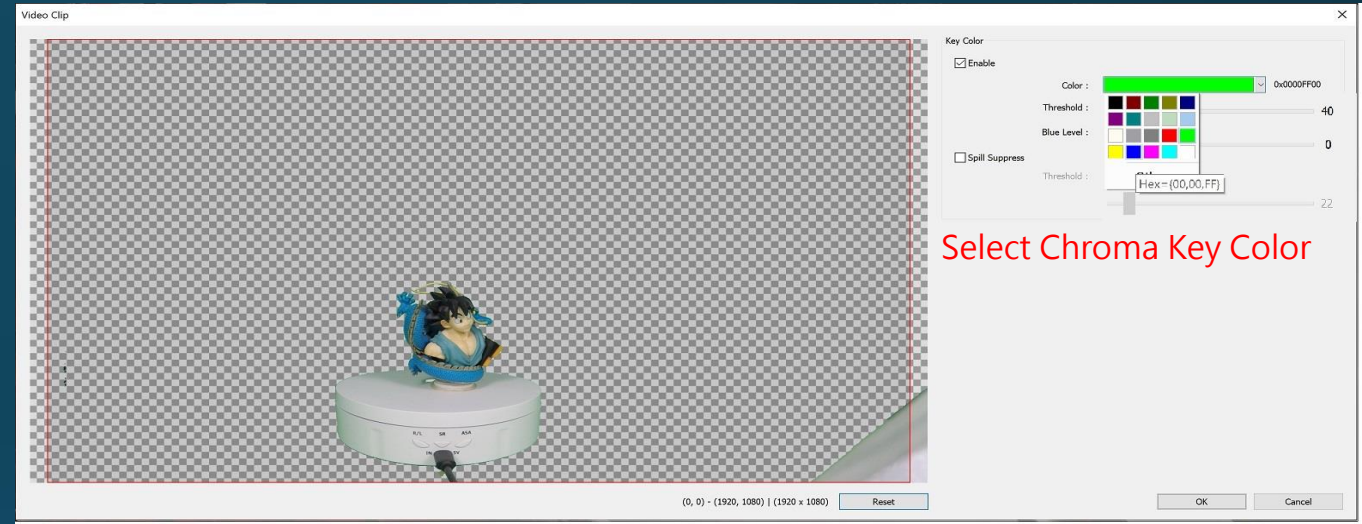
First one 3D-AD Software which can Real-Time Editor 3D-SBS and Depth Control of Content



Video Chroma Key (New)



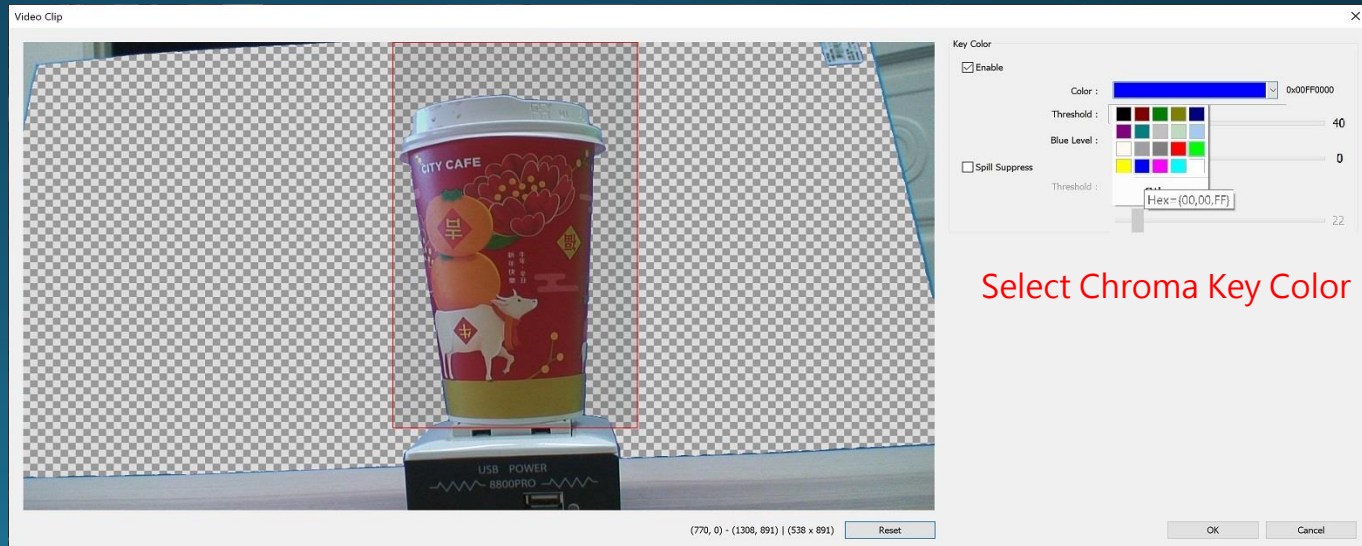
Camera 1 original image



Green Color Chroma Key



Camera 2 original image



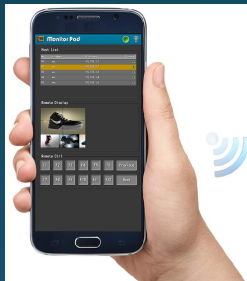
Blue Color Chroma Key



Video Chroma Key (New)



Multi-Layer Overlay



Support Hot Key Show/Hide CHROMA-Key Video



Chroma Key Video Mirror/ Matrix Display overlay with 8K Video

- Horizontal Vertical Mirror Display
- Video Display Area select
- Matrix Display
- Multi-Layer Overlay





Visuade™ Customize



Idle Screen

Idle Logo : 

Idle Background : 

Loading Background

Background Mode : ▾

Background Type : ▾

Background File : 

Progress Display : ☒ Enable

- Customized Product Image (LOGO)
- Custom read screen
- Customize the standby screen
- Customized company name (multi-language)
- Customized Copyright Statement (Multi-language)



Product Advantage

- User Friendly Interface Design, Multi-Language Easy to Learn
- Quick Make for Each Application
- Ultra High Content Quality Low Cost

Control Center



Hotel



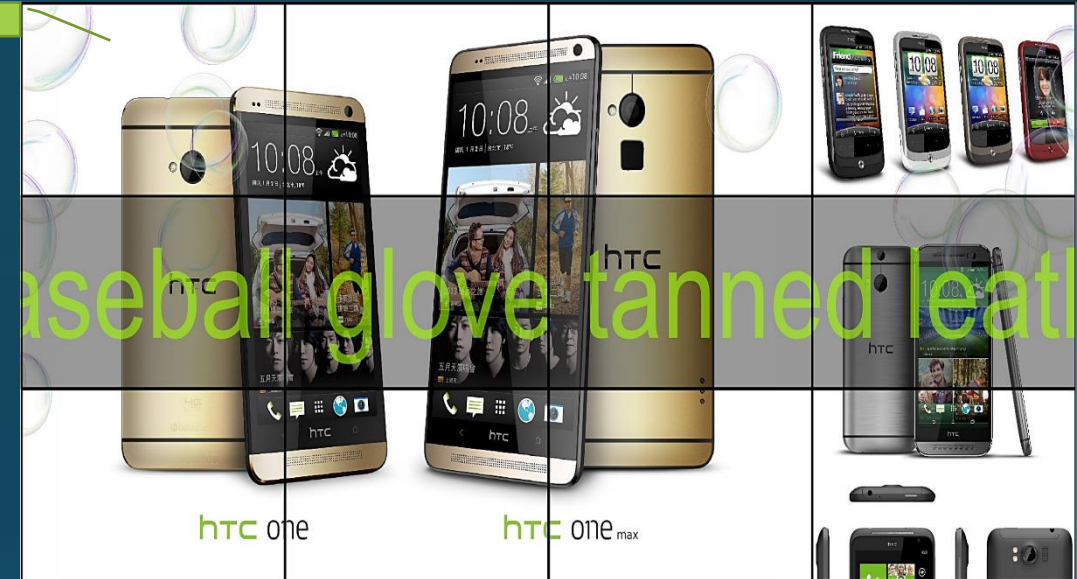
Exhibition



Product Advantage

- Large Video Wall or Split to more
- Ultra Matrix™ + Visuade™ · All-In-One Total Solution
- Meets the Industry Application

3C Product



Fashion Product



Food



Product Advantage



Movie Theater



Wedding



Restaurant

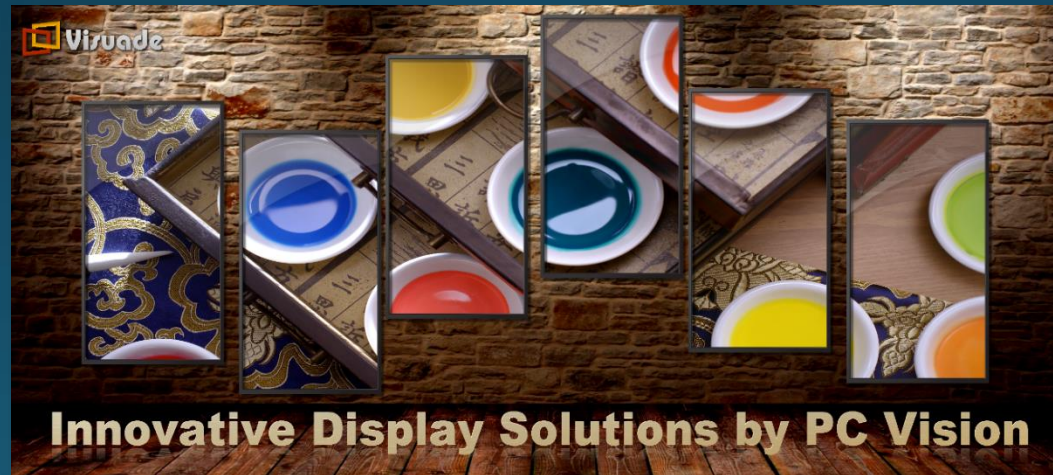
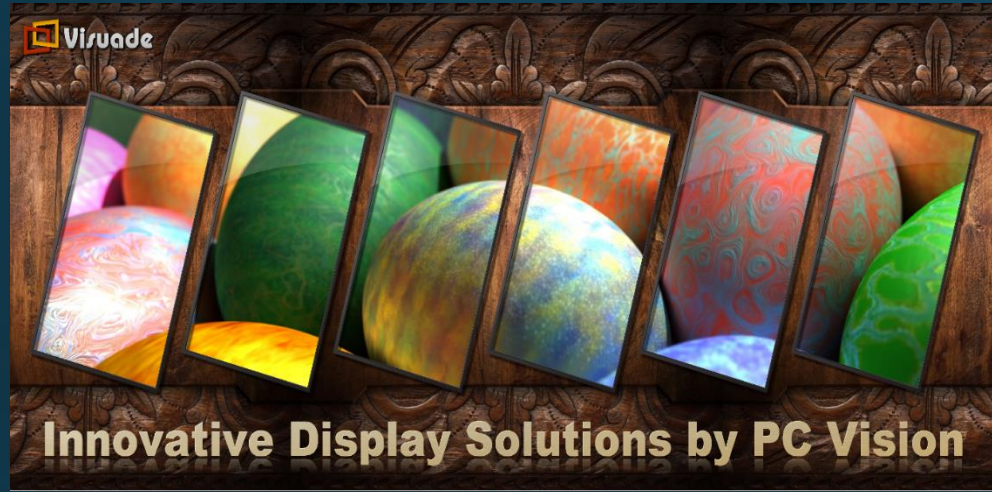


強調「色、香、味、形」俱備，用美味與每位顧客搏感情



PCVISION

Irregular Display Application



Success Project



Trade Show



Trade Show



Airport



Hospital



ACER Demo Center



ACER MEETING ROOM 4X3 VIDEO WALL



Electronic Mall



Taipei 101



Lugo Gift Shop



Din Tai Fung restaurant



China NetDragon special Video Wall



Carrefour Luxury Supermarket



Big-Mind Furniture stores



Acer Demo Center



Selling Point

Why Choose Ultra Matrix™/ Visuade™ Video Wall System?



Hardware Firmware Software Design Center

- Own Product Developer Technology Team
- AIO Integration Design without Compatibility issue
- Own Factory Production Quality Control



Cost Effective

- Low Cost High Value Digital Signage Software
- Easy to Made AD, Cost reduce
- Meets the Industry Application



High Display Quality Solution

- Single PC Support 6~36 Video Output
- Support LCD LED & Projector Display Module
- One PC to Management Multi-Video with Multi-Audio
- Visuade™ User Friendly & Multi Language Digital Signage Software



Customize Design Ability

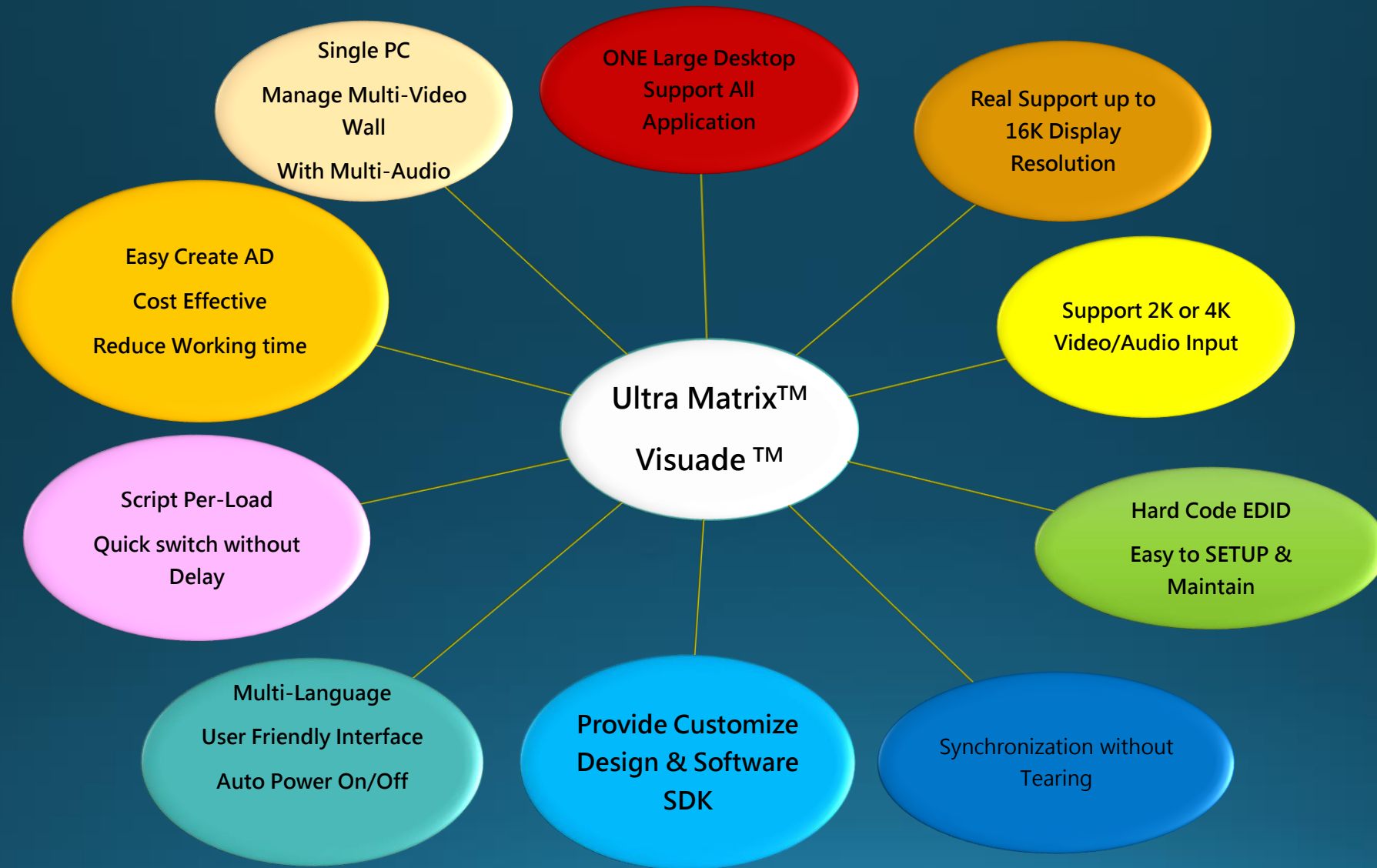
- Meets Customer Special inquire for Hardware firmware & software function
- Interactive, AD Create, Remote Control, 3D Animation effect Available
- Provide Software SKD for integration 3rd Software



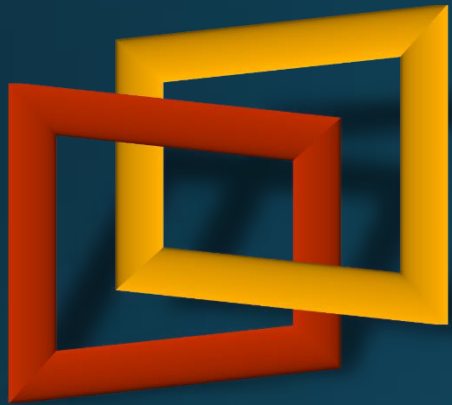
Multi-Format Media Image Support

- Support all Format Image Video file, Video Stream, Local Video Source
- Regular Update to Support New function & file format

Ultra Matrix™ Competitive Advantages



Visuade™ Advantage



- Embedded , Powerful Digital Signage Software
- High Quality & User Friendly Design Concept
- Quick Learning, Easy to Made High Quality AD
- Very Low Cost for Content Creation
- Irregular Image Effect, High Value AD

Thank you

