VISSONIC

Professional Audio Video Manufacturer

Signal Management

PRODUCT DATASHEET

VISSONIC ELECTRONICS LTD.

Think Solutions

Content

4K matrix and transmitter

Seamless matrix and video wall processor

VIS-PHD44/88/1616

4x4/8x8/16x16 HDMI Matrix

VIS-PHD1616

VIS-PHD88

VIS-PHD44

Product Introduction

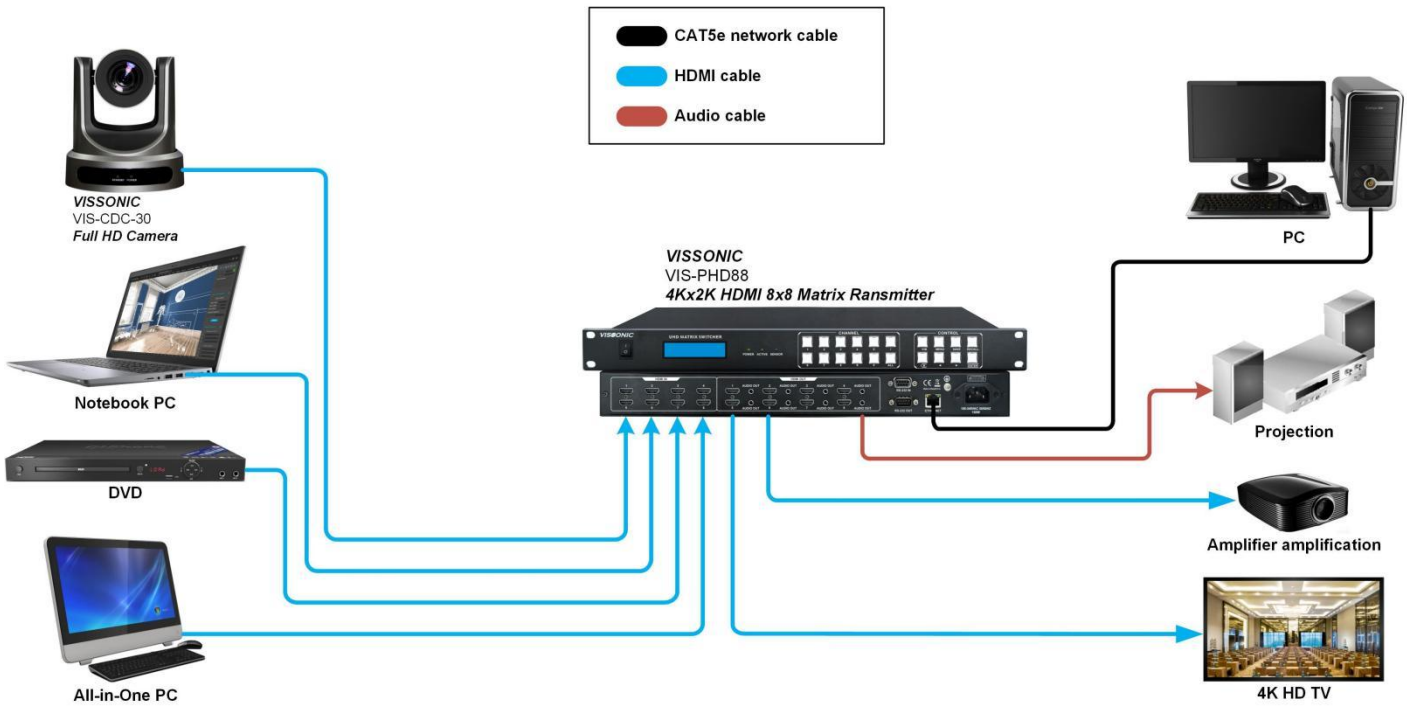
PHD series HDMI matrix is professional switcher routs UHD 4Kx2K HDMI signals to any outputs in need.

It provides high peak data transfer rate and perfectly supports synchronous switching of HDMI signals, the robust industrial design makes it able to be a signal management center for high definition signal transmission. It can be widely used in command control center, multi-screen systems, conference room, high definition medical or education teaching etc.

Features

- 4 / 8 /16 HDMI inputs, 4 / 8 /16 HDMI outputs and 4 / 8 /16 analog audio outputs.
- 4Kx2K@30H and 4Kx2K (YCbCr420)@60Hz., in addition to all mandatory HDMI 3D TV formats.
- HDCP and DVI compliant.
- Supports 10/100Mbps Ethernet network connection..
- It can be serial port control.
- No loss and no delay HDMI Crosspoint switch..
- HDMI 1.4b protocol.
- Multiple control methods including front key panel with LCD control, RS232 control and TCP/IP control with RJ45 ports, make control more flexible.
- The signal of input can be transmitted up to 30 meters.
- It can save and load 9 different scenes with mode saving function.
- The signal can be converted by an adapter and compatible with DV1.0 standard.
- Easy installation with rack-mounting design.

System diagram



Specification

Model	VIS-PHD44	VIS-PHD88	VIS-PHD1616
Input type	4 HDMI	8 HDMI	16 HDMI
Output type	4 HDMI, 4 analog audio	8 HDMI, 8 analog audio	16 HDMI, 16 analog audio
Video Protocol	HDMI 1.4b, HDCP 1.3, compliant to DVI1.0		
Maximum resolution	HDMI1.4b 4Kx2K@30H, HDMI2.0 YCbCr420 4Kx2K@60Hz		
HDMI interface	Type A, 19 pin, female		
Serial Interface	RS-232 IN, DB9, Female; RS-232 OUT, DB9, Male		
Input cable length	Adaptive equalizer for cable lengths up to 30 meters		
Output cable length	≤ 15m		
RJ45 control protocol	TCP/IP		
Ethernet rate	Self-adaptive 10M/100M		
Storage environment	Temperature: -20℃ ~ +70℃, humidity: 10%~90%		
Work environment	Temperature: -20℃ ~ +70℃, humidity: 10%~90%		
Power supply	AC 110~240V		
Maximum power dissipation	15W	25W	45W
Chassis Specifications	1U	1U	2U
Dimensions (WxDxH)	430x260x44.5 mm	430x260x44.5 mm	430x260x89 mm
Weight	3.5Kg	3.5Kg	5.5Kg
MTBF	30,000 hours		
Warranty	One-year warranty and lifetime maintenance		

VIS-HE20

HDMI/VGA to HDBaseT Wallplate

Overview

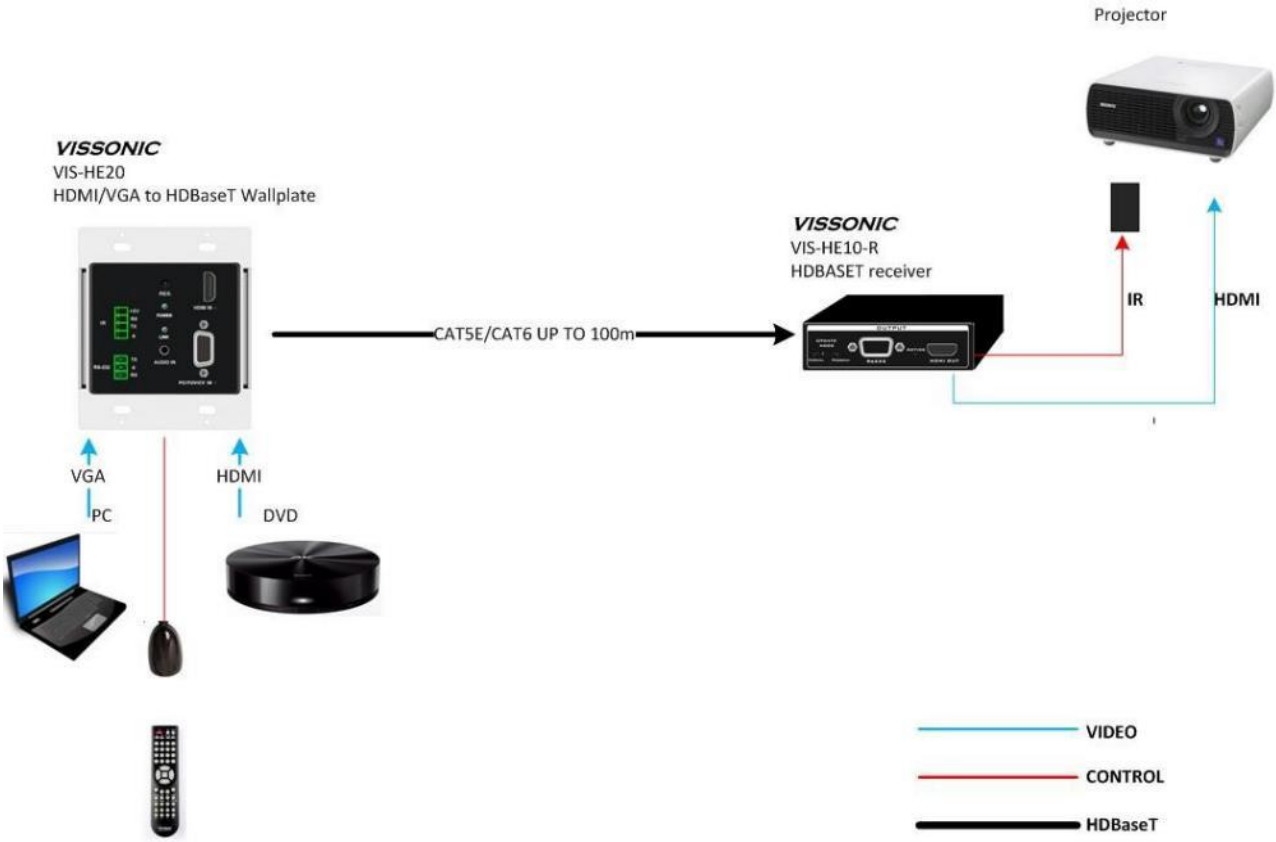
VIS-HE20 embedded wall panel transmitter using HDBaseT technology to transmit video, audio and control signals (can be used with the matrix), and HDBaseT series interface products are fully compatible. Support CVBS, YPbPr, VGA, DVI, HDMI signal transmission and IR, RS232 pass through function, DC 12V / 2A power supply and support POC power supply.

This product is mainly used in radio and television engineering, multimedia conference hall, TV teaching, command and control center and other occasions.

Features

- Support CV, YPbPr, VGA, DVI, HDMI video and audio signal transmission;
- Support the input source signal automatically switches the adaptive function;
- Support output resolution adjustable, up to 1080P @ 60;
- Support IR, RS-232 pass through function;
- Use CAT5 UTP cable to transmit (up to 100M).
- Support POC power supply function.

System Diagram



Application

Specification

Model	VIS-HE20			
Analog Video Input				
Interface	VGA PORT			
Signal type	CV	YPbPr	Y/C	VGA
Gain	0dB	0 dB	0dB	0 dB
Bandwidth	150MHz @ -3dB	350MHz @ -3dB	150MHz@-3dB	380 MHz
Differential phase error	0.1°,3.58-4.43 MHz	0.1°, 3.58-4.43 MHz	0.1°,3.58-4.43 MHz	
Differential gain error	0.1%, 3.58-4.43 MHz	0.1%, 3.58-4.43 MHz	0.1%, 3.58-4.43 MHz	
Signal strength	1V p-p: (CVBS)	1V p-p: (Y part) 0.3Vp-p: (PbPr/CbCr part)	1V p-p: S terminal(Y/C)	0.63V p-p to 0.9 V p-p
Minimum / maximum level	Analog signal: -2V/+2V	Analog signal: -2V/+2V	Analog signal: -2V/+2V	RGB signal: 0V/1.0V HV Signal: 0V/5.0V
input resistance	75 Ω	75Ω	75 Ω	75Ω
Return loss	<-30dB@5MHz	<-30dB@5MHz		<-30dB@5MHz
HDMI input				
Protocol	HDMI1.3a, DVI1.0, HDCP1.3			
Pixel bandwidth	Pixel bandwidth 165MHz, full digital			
Interface bandwidth	2.25Gbps, full digital（Total 6.75Gbps, each color 2.25Gbps）			
Max. Resolution	PC: 1920x1200@60_24bit HDTV: 1920x1080P@60_36bit			
Clock Jitter	<0.15 Tbit			
Risetime	<0.3Tbit (20%--80%)			
Falltime	<0.3Tbit (20%--80%)			
Signal type	HDMI 1.3a /DVI 1.0 define HDM/DVI-D full digital T.M.D.S. signal			
Interface	HDMI-A (Type A connector)			
Signal strength	T.M.D.S. 3.3V p-p			
Minimum / maximum level	T.M.D.S. 2.9V/3.3V			
Resistance	50 Ω			
Maximum DC offset error	+/-15mV			
Recommended maximum input distance	Less than 15m under 1920x1080 with quality cable			

Input EDID	Use the system default EDID
RS-232	
Interface	Input 3PIN-3.81mm
Signal type	Digital
Level type	RS232 level
Signal direction	Two-way communication
Baud rate	Min:4800bps, Max:115200bps
Data bit	8 bits
Stop bit	1 bit
Correction bit	None
Flow control	None
Level delay	500 ns
Level peak	+/-15V
IR signal	
Interface	Input/output: 4PIN-3.81mm phoenix
Signal type	Input; digital Output: digital
Output level type	PLL level
Wavelength	850nm
Input level carrier frequency	38KHz
Link input/output	
Interface	RJ45 port
Support Protocol	HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVI1. 0 protocol.
PIXEL bandwidth	Pixel bandwidth 225MHz, full digital
Interface bandwidth	6.75bps（RGB:2.25 Gbps/per lane）
Max. Resolution	Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit
Signal type	HDBaseT protocol defined in the high-speed differential signal
Max. input/output distance	Max.100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7
Specification	
Power supply	+12V
Temperature	-20°～ +70°C
Humidity	10% ～90%

VIS-HE10/VIS-HE7

HDBaseT extender for 100m/70m

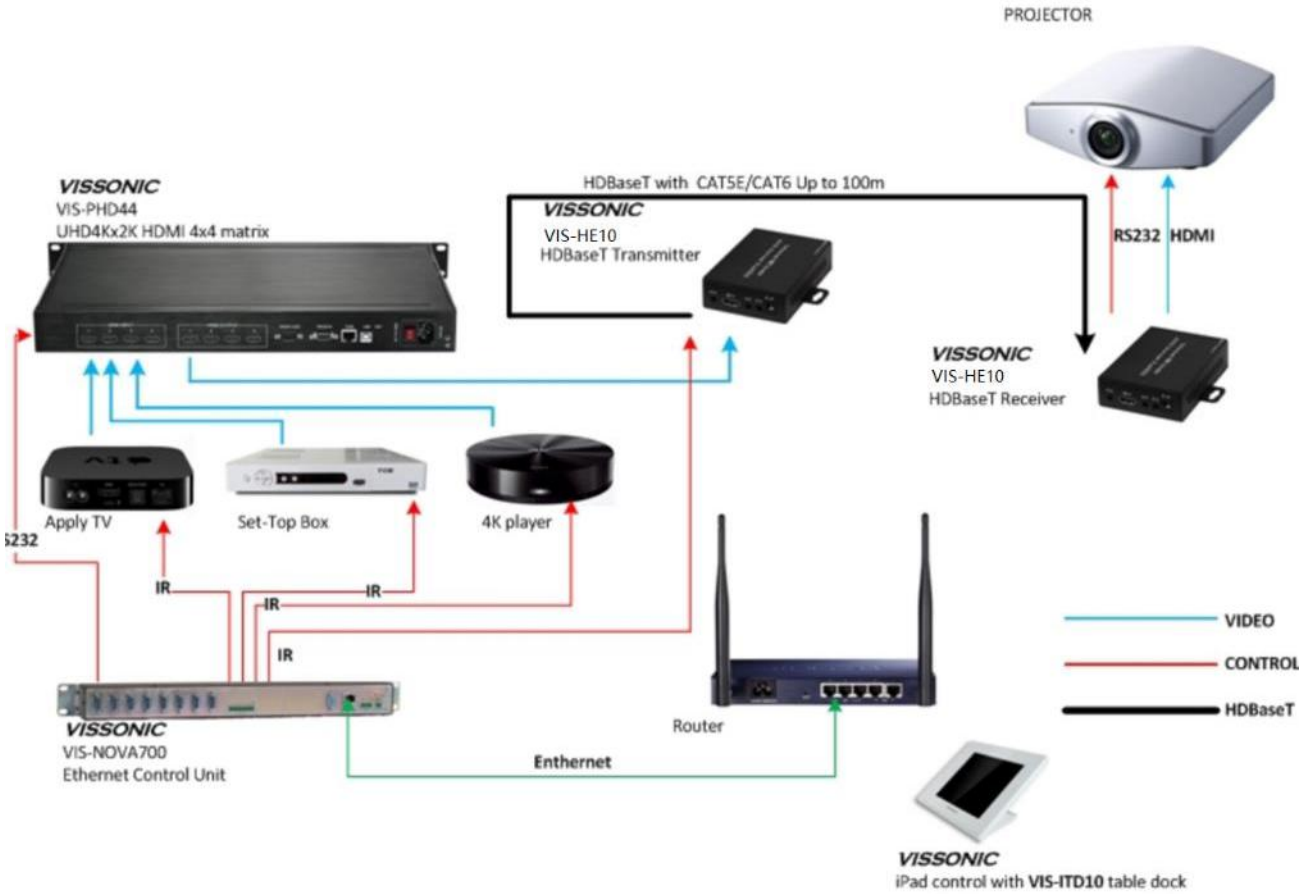
Overview

The VIS-HE10 / VIS-HE7 HDMI Extender over cat5e/cat6 is to extend the HDMI signal over long distances to a compatible display. It is designed to convert HDMI signal to standard HDBaseT signal and transmit by Cat5e/6 cable. It also transmit Bi-directional Infrared signal together with the HDMI signal, capable of controlling the source in the device side out to 100 meters or 70 meters, or from source to device, RS232 pass through makes it more convenient to be controlled.

Features

Allow HDMI signal/IR transmit up to 100 meters or 70 meters over Cat5e/6 cable
HDMI signal from 1080P to 4Kx2K, 3D video format support, HDCP compliance
IR signal/RS232 pass through together with HDMI over Cat5e/6 cable bi-directionally for remote control
Ultra Light&thin case design for easy installing

System Diagram



Application

Specification

HDMI video interface	**VIS-HE7**	**VIS-HE10**
Protocol support	HDMI1.4, HDCP1.3, EDID1.4	
Pixel bandwidth	330MHz	
Interface bandwidth	10.2Gbps	
Maximum resolutions	1900x1200@60Hz, 3840X2160@30Hz HDTV: 1920x1080P@60Hz; BD: 4Kx2K@30Hz	
Signal type	HDMI 1.4 / T.M.D.S.	
IN/OUT interface	HDMI type A, female; HDBaseT	
Transmission Distance	1080P video signal can be transmitted up to 70m by CAT5e/6	1080P video signal can be transmitted up to 100m by CAT5e/6
	4K vide signal can be transmitted up to 40m	4K vide signal can be transmitted up to 70m
Signal amplitude	T.M.D.S. +/- 0.4Vpp	
Min/Max Voltage	T.M.D.S. 2.9V/3.3V	
Input impedance	100Ω	
Dimensions	135mmX75mmX15mm	
Control interface		
Serial	RS232 (3PIN 3.5mm)	
Baud	110-115200bps	
IR control	IR (3.5MM)	
IR frequency	38K	
ETHERNET	RJ45	
Power supply	12V DC	
Maximum dissipation	8.3W	

VIS-MV71

7x1 Multi-Viewer & Scaler

Introduction

VIS-MV71 Switch allows you to view up to four different analog and digital video sources simultaneously on one display device. Advanced viewing options include quad-mode, full-screen mode, POP (picture out picture) and PIP (picture in picture) mode.

VIS-MV71 Multi-Viewer can support 1 channel VGA, 2-way DP, 4-way HDMI video signal input, 1 Audio signal binding VGA input, all input signal can be implemented audio and video synchronization switching;

Support 1 HDMI video signal output, the output resolution and refresh rate up to 1920 * 1080 @ 60HZ; 1 channel Audio signal output can be connected to an external audio amplifier.

VIS-MV71 are mainly used in video conferencing, teaching, exhibitions, shows, games, etc. where need to use a single display unit simultaneously display multiple HD signals

Features

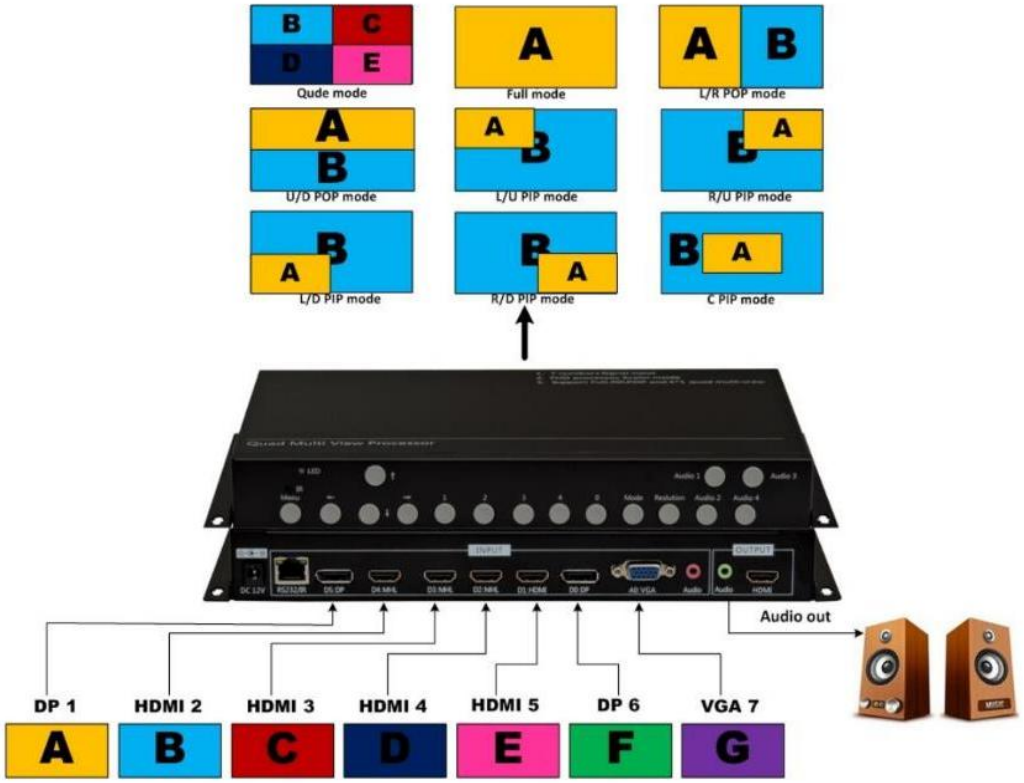
- Support Quad-mode, Full screen, and fix position POP, PIP function
- Support 1 VGA, 2-way DP, 4-way HDMI (including 3-way compatible MHL) input signal;
- Support 1 HDMI output with resolution up to 1920 * 1080 @ 60HZ;
- All input signals contain audio, support audio and video synchronous switching and four audio independent switching under quartering;
- Support control by chassis buttons, IR remote control, RS-232 control;

Specification

Model	VIS-MV71
Input	
Input port	1 VGA, 2-way DP, 4-way HDMI, 1 stereo audio
Resolution	DP supports a maximum resolution of 1920 *1080@60HZ, backward compatible; HDMI supports a maximum resolution of 1920x1080@60HZ, downward compatible
Audio	Input audio supports 3.5mm audio interface for bind VGA
Color depth	24bit,1677 ten thousand
POP, PIP mode	Fixed model
Output	
Interface	1 channel HDMI 1.4 output connected display devices that support audio and video sync output; A 3.5mm audio left and right channel stereo, for connecting stereo
Resolution	1920*1080@60HZ, 1280*720@60HZ optional
Color depth	24bit,1677 ten thousand
Control mode	RS232, IR, case key
Voltage	DC: 12V
Dimension	278mm(L)*36mm(H)*166mm(W)
Weight	1.2kg
Power	Maximum 15W

Display mode

The quad multi-viewer have 9 display modes.



Diagram

VIS-Quad41

4x1 Multi-Viewer and 12x1 switcher with KVM

Overview

VIS-Quad41 multiviewer and switcher is a high-performance image processor, and it's main function is turn 4 BNC, VGA, HDMI input signal into 1 HD HDMI and VGA signal, which make 4 digital signal display in one HD screen unit synchronously and HDMI signal with USB(like mouse, keyboard) can be switched synchronously. VIS-Quad41 multi-viewer and switcher support various kinds display unit with HDMI, such as: projector, LCD, DLP, plasma, full color LED.

VIS-Quad41 multiviewer and switcher is chief applied to video conference, teaching, display and demonstration, stock ect, where need single display unit display multi HD signal synchronously, and it generally used in the market at present.

Meanwhile, VIS-Quad41 multiviewer and switcher is the only product that add USB synchronous switch, so when case or IR controller switch to fully display one signal, correspondingly, USB of computer host also synchronous switch.It meet the demand of video conference which need with mouse and keyboard synchronously.

Features

- Support single display unit display 4 HD or analog signal synchronously under Quad mode;
- Support 4 composite video, 4VGA, 4 HDMI, 12 input signals under full screen mode;
- Support 1 VGA and 1 HDMI synchronic output;
- 4 input USB signal,2 output USB, and USB connect mouse and keyboard;
- Support KVM function, that is USB, mouse, keyboard with video synchronous switch;
- Compatibility all kinds of input resolution and support output resolution of 1920*1080;
- Size and position of image can be adjust arbitrarily, and other functions, such as: windowing, superposition, roaming, PIP, POP.
- Support regulatory image transparency, therefore you can see base picture though upper image;
- Can be commonly used in any nation in the the world due to support ultra wide input alternating voltage of

90V to 264V;

- It's draw bench case is standard dimension of 1U, so it can be put on normal equipment cabinet;
- Can be controlled by case key, IR, RS-232 serial port and center control.
- High quality HD quad video multiplexers is especially customized generate for video engineering;

Specification

Model	**VIS-Quad41**
HDMI/DVI input	
Input port	4BNC, 4VGA, 4HDMI, 4USB
Resolution	Support 1920*1080 ultrahigh highest resolution and downward compatibility all kinds of resolutions
Color depth	24bit,1677 ten thousand
Zoom and display	unlimited
Video input	
Identify pattern	automatic
Image adjust	Move, transformate, brightness, contrast, color temperature;
Output	
Interface	1 HDMI, 1VGA synchronic output; 2USB connected mouse, keyboard or other equipment
Resolution	1920*1080/60HZ, can customize downward this resolution
Frequency	60Hz
Color depth	24bit, 1677 ten thousand
Control mode	RS232, IR, case key
Control software	HD video multiplexers professional control software
Voltage	AC 90~260V
Dimension	442mm(L)*45mm(H)*242mm(W)
Power	No more than 15w

Display mode

4 HDMI or VGA image signal display in one screen unit in quartering at the same time, can simultaneously monitor 4 HD HDMI or VGA signal, as following:

Fully display one signal

It can switch to fully display whichever input signal like HDMI, VGA and BNC though switching control. As following:

USB switch under quartering mode

It realize mouse, keyboard KVM division function though control software or UA1, UA2, UA3 and UA4 keys, that is can control and operate whichever host under quartering mode by means of a set of mouse and keyboard.

Full screen and USB synchronous switch

When you choose fully display certain HDMI or VGA,USB video signal also switch to this image signal which binding with it, so you can operate the host binding with fully display image through USB mouse, keyboard;

Other mode

By control software, it can achieve other multi individual display mode, like PIP, POP, window overlap,

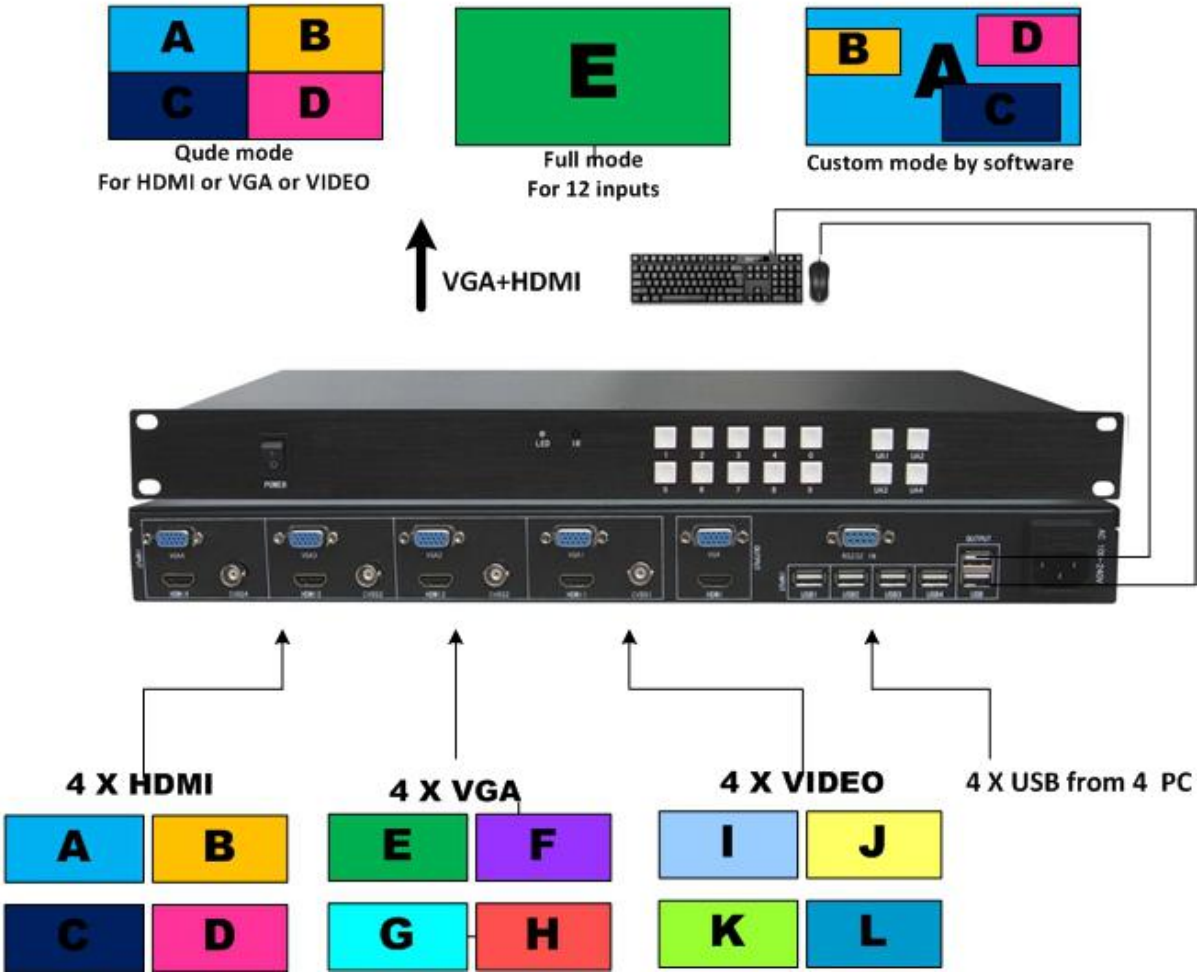
roaming, any size, any position;

Thirds division mode

Custom mode

PIP mode

Diagram



Introduction

VIS-QuadKVM is a high-performance image switch and it's main function is to make 4 HD or analog signal display in one UHD 4K display unit synchronously under Quad mode and Full screen, PIP and POP mode.

It has 1x VGA, 2 xDP, 4xHDMI signal input. The highest DP input signal can support 3840*2160@60HZ, the highest HDMI input signal can support 3840*2160@30HZ and the highest output resolution can reach to 3840*2160@60HZ.

VIS-QUADKVM switcher support 1 channel HDMI 2.0 output, the output resolution and refresh rate up to 3840x2160 @ 60HZ, the output refresh rate of high-definition 4K video multiplexers is the highest on the market at present. Meanwhile, if input 4signal of 1920 * 1080, 4K display unit may display under quartering, point-to-point display 4-way high-definition signals, 4 full HD 1080P video signal can be completely uncompressed displayed on a 4K display unit, and there is no any distinguish between 4 image signal connect a 1080P display unit with single1080P signal link a 1080P display unit.

Meanwhile, VIS-QUADKVM video multiplexers can also supports USB synchronous switch HD video multiplexers, switch to a computer signal display full screen by a case key or remote control, the corresponding host computer's USB also synchronous switch, which realize the need of achieving synchronous switch mouse, keyboard of video conferencing.

VIS-QUADKVM HD video multiplexers is use a relatively large number in standard products currently on the market, products are mainly used in video conferencing, teaching, exhibitions etc., where need to use single display unit simultaneously display multiple HD signals workplace.

Features

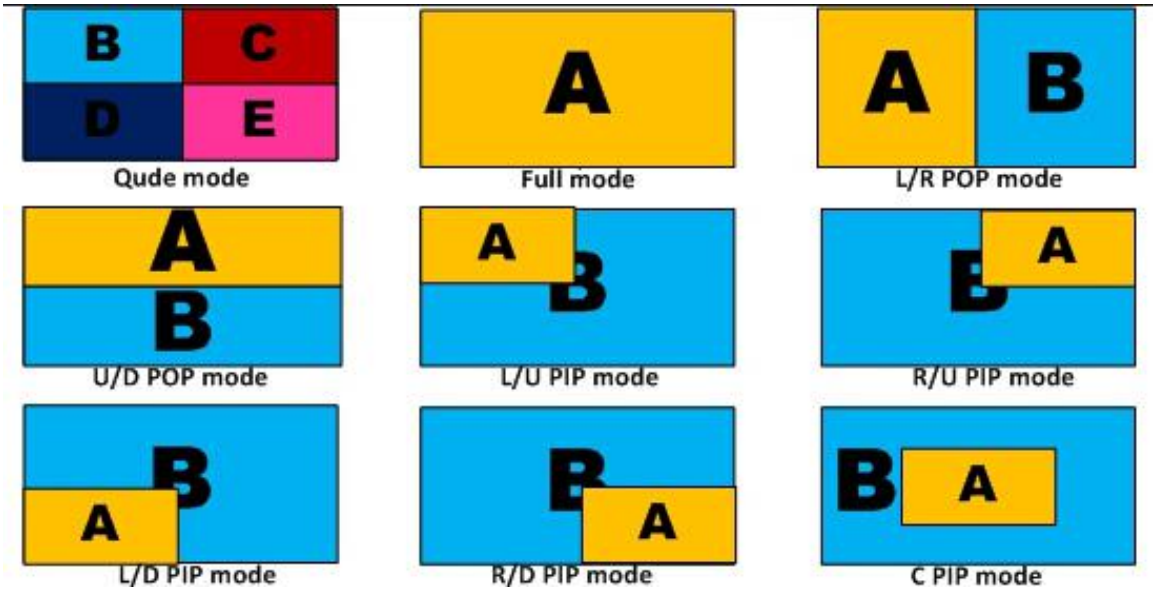
- Supports one 1 VGA, 2 DP, 4 HDMI (including 3-way compatible MHL) input signal, the input resolution up to 3840 * 2160 @ 60HZ, downward compatible;
- Supports one HDMI 2.0 output, the output resolution up to 3840 * 2160 @ 60HZ;
- Support point-to-point simultaneous display 4-way 1920 * 1080 full HD signal;
- Input and output signal wide support audio, also support 3.5mm headphone jack and the left and right channel stereo output;
- 2 USB signal output, USB connection support mouse and keyboard, and USB with image synchronous switch;
- Support Quad mode and Full screen, PIP and POP mode.
- Wide support 90V ~ 264V AC input, can be commonly used to any country worldwide;
- Support front panel, infrared remote control, RS232 serial control

Specification

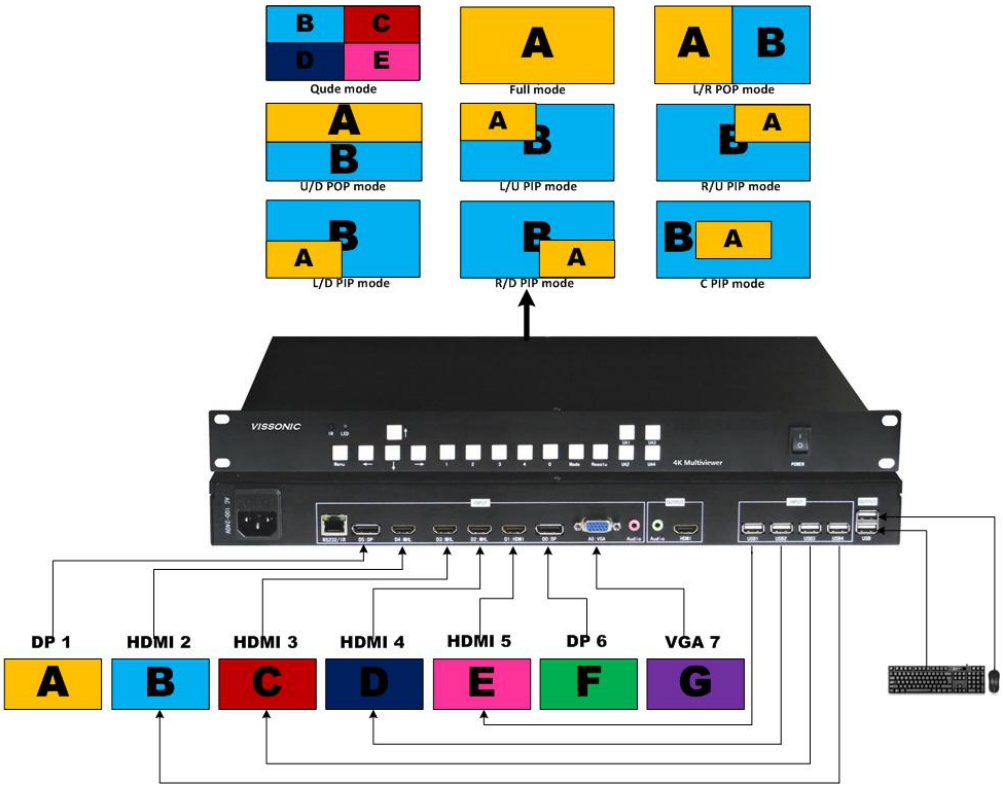
Model	**VIS-QuadKVM**
Input	
Input port	1VGA, 2DP, 4HDMI, 4USB, 1right and left channel audio
Resolution	DP support highest resolution of 3840*2160@60HZ and downward compatibility HDMI support highest resolution of 3840*2160@30HZ and downward compatibility
Color depth	24bit,1677 ten thousand
PIP POP mode	Fixed model
Output	
Interface	1 HDMI2.0 connect display device and support video, audio sync output; One 3.5 mm audio right and left stereo 2 USB 2.0, one connect mouse the other connect keyboard
Resolution	Canchoose3840*2160/60HZ, 3840*2160@30HZ, 1920*1080@60HZ, 1280*720@60HZ
Color depth	24bit,1677 ten thousand
Control mode	RS232, IR, case key
Control software	Not available
Voltage	AC 90~260V
Dimension	441mm(L)*44mm(H)*239mm(W)
Power	No more than 15w
Audio	Audio input supports 3.5mm audio interface input, for Binding VGA;

Display mode

The quad multi-viewer have 9 display modes.



Diagram



VIS-MDW

4K video wall Multi-Angle controller

True 4K@60Hz
Ultra HD Signal

Overview

VISSONIC VIS-MDW series is a 4K resolution multi-screen multi-directional stitching processor. It can support the splicing process of the screen rotated 90 degrees.

This device can easily and quickly configure the display screen placed at a special angle, without affecting the normal display of the screen, and can support a specially designed ultra-clear display pattern.

Widely used in mall advertising, outdoor scenes, hotels, clubs, restaurants and other places

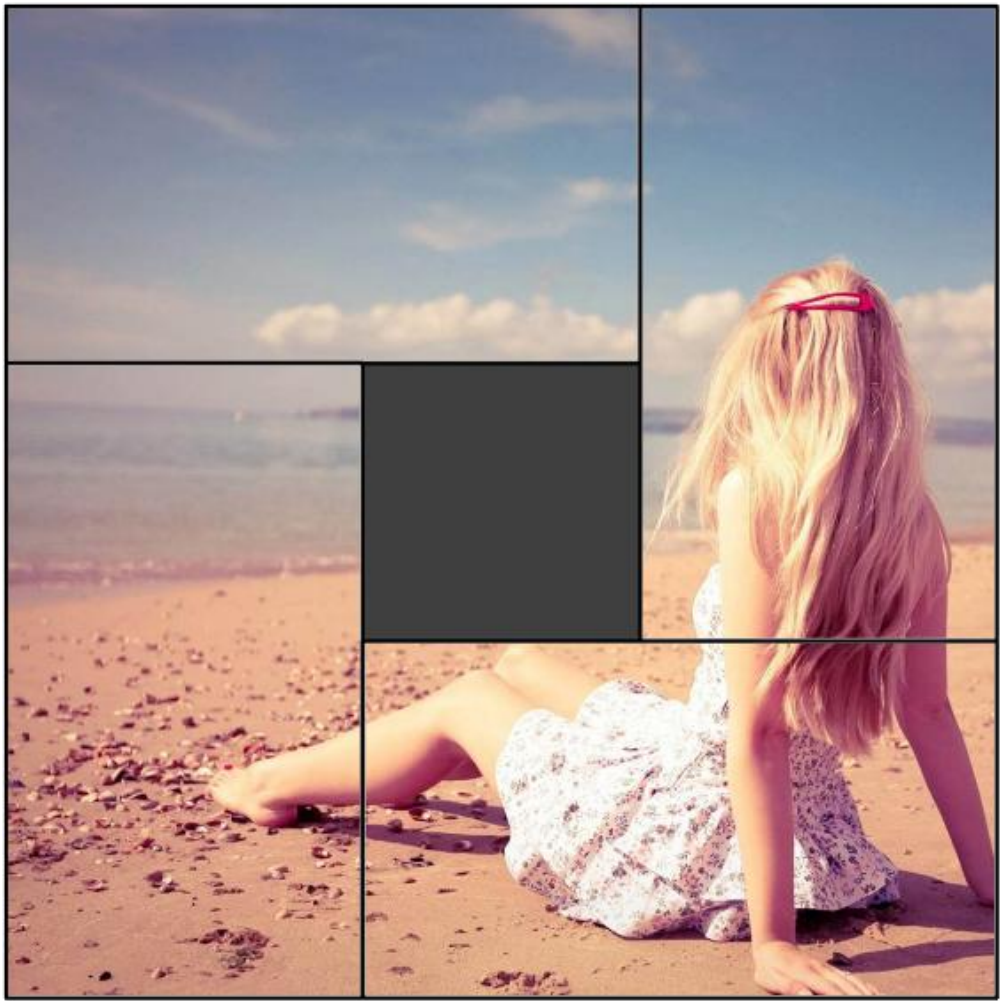
Feature

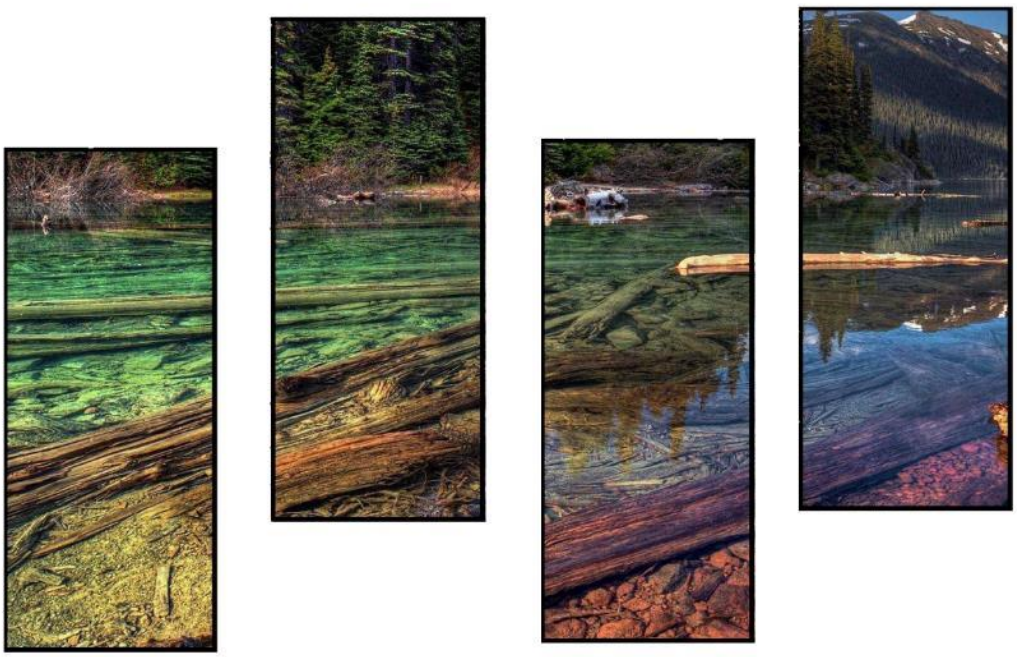
- Support horizontal or vertical splicing of screens of different sizes at the same time
- Any output port can be set to 90 degrees, 180 degrees, 270 degrees flip
- Can intercept any part of the input signal for display
- Support HDMI signal input with resolution and refresh rate up to 3840x2160@60HZ
- The output signal can be up to 1920x1080@60Hz
- Support arbitrary cropping
- Professional control software with simple operation
- EDID Management

Order information

VIS-MDW-4.....4 outputs video wall controller(1U)
VIS-MDW-6.....6 outputs video wall controller(1U)
VIS-MDW-12.....12 outputs video wall controller(2U)
VIS-MDW-25.....25 outputs video wall controller(2U)

Picture Effect it can do:

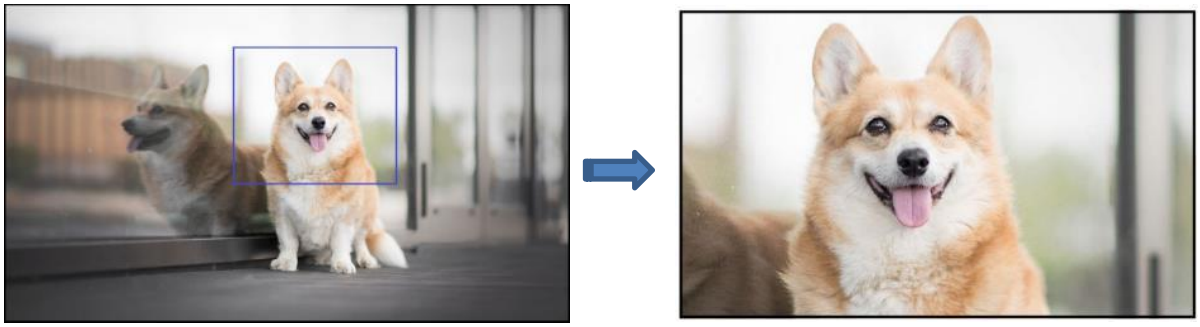




Regular splicing function

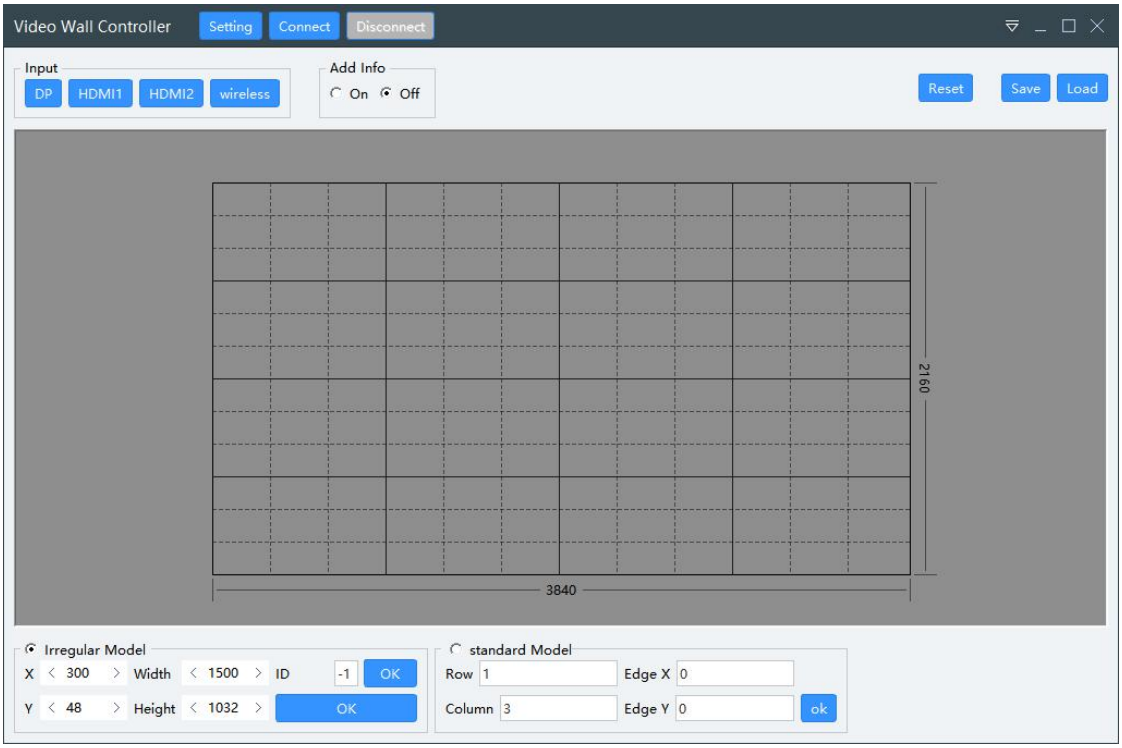
Arbitrary cropping

Picture cropping from any input source

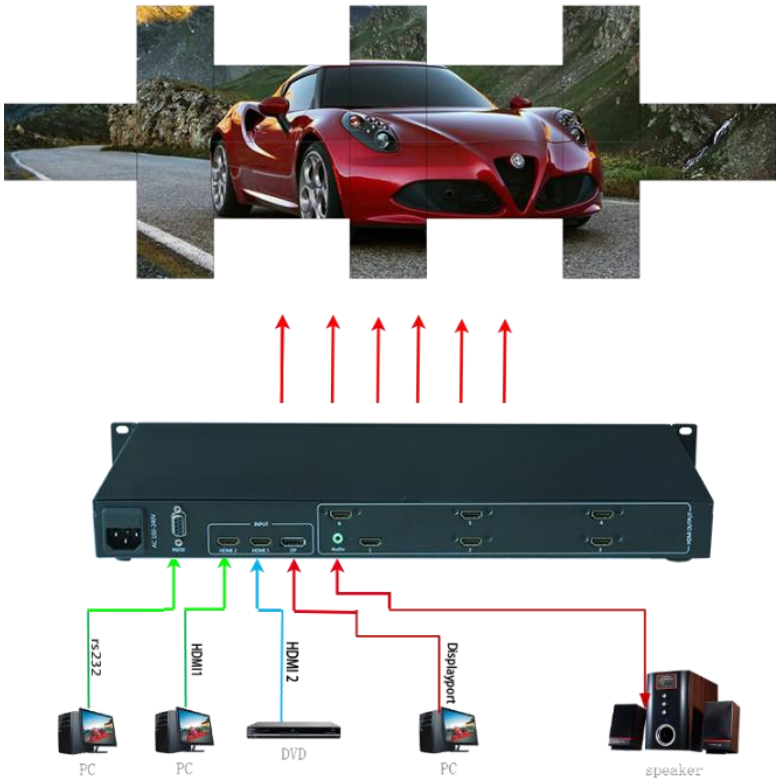


Visual control software

All functions can be simply operating on software by user friendly interface



Diagram

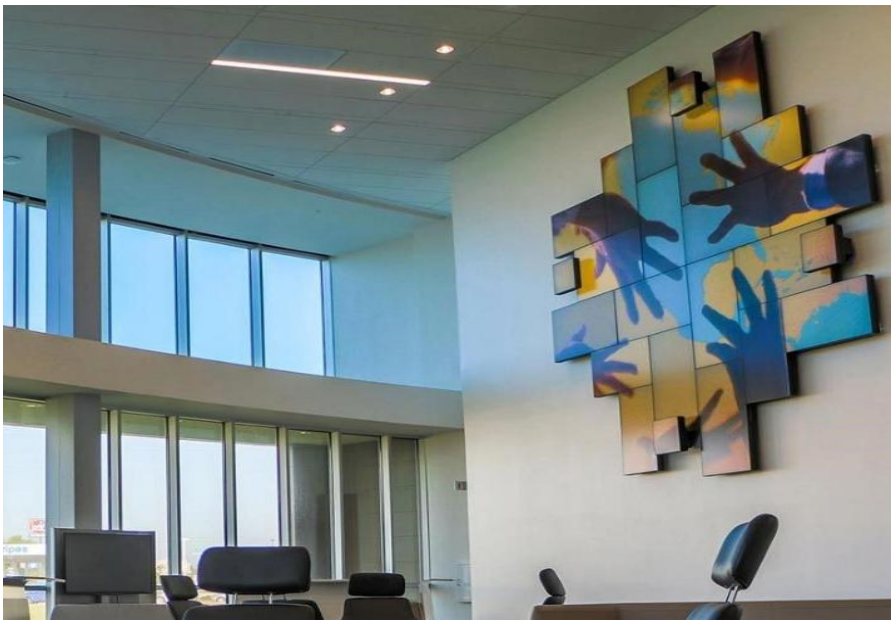


Specifications

Name	Specification
Input	
Input interface	1 channel HDMI2.0, 1 channel DP, 1 channel HDMI1.4 signal;
Resolution	HDMI and DP support a maximum resolution of 3840*2160@60HZ, backward compatible;
Output	
Output Interface	Customized 2 to 12 HDMI 1.3 output connection display devices, support audio and video synchronization output; A 3.5mm audio left and right channel stereo for stereo sound;
Output resolution	1920x1080@60HZ;
Color depth	24bit, 16.77 million colors
Control method	Chassis button, software control;
Input voltage	AC voltage 100-220V;
Display mode	Alien stitching and standard stitching modes, etc.
Product Size（1U）	440mm (length) x240mm (deep) x43mm (height)

Product Size（2U）	442mm (length) x242mm (deep) x45mm (height)
Net weight	(1U)3.0KG, (2U)3.0KG
Power consumption	20W maximum

Application



VIS-UHD0808-VW

4K UHD Matrix and Video Wall Processor

Overview

VIS-UHD0808-VW is a high-performance seamless UHD matrix switcher with 8x HDMI inputs and 8x HDMI outputs. Audio extract or insert can also be enabled on this device. IR matrix routing on this video matrix is followed with video routing. VIS-UHD0808-VW support one or more video wall with RS232 command

Feature

- Support HDMI 2.0/HDCP 2.2
- HDMI video output resolution up to 3840x2160@60
- Support seamless switching
- Support video wall
- Support IR matrix
- Support HDMI audio extract
- Support external LR audio insert on HDMI stream
- Support EDID management
- Front panel, RS232, TCP/IP (LAN 10M/100M), software & Web GUI control

Specification

Electrical parameter	
Interface	HDMI-A
HDMI /DP /VGA Version	HDMI2.0, HDCP2.2
Bandwidth	18Gbps
Input	800x600@60Hz, 1024x768@60Hz, 1280x768@60Hz, 1280x800@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1200@60Hz, 480p, 576p,720p,1920x1080i, 1920x1080p, 3840x2160@24Hz/25Hz/30Hz/50Hz/60Hz, 4096x2160@24Hz/25Hz/30Hz/50Hz/60Hz.
Output	3840x2160@60Hz, 3840x2160@50Hz, 3840x2160@30Hz, 3840x2160@25Hz, 1920x1200@60Hz,1920x1080@60Hz, 1920x1080@50Hz,1600x1200@60Hz, 1400x1050@60Hz,1366x768@60Hz, 1360x768@60Hz, 1280x1024@60Hz, 1280x768@60Hz, 1280x720@60Hz, 1280x720@50Hz, 1024x768@60Hz
HDMI Amplitude	T.M.D.S +/- 0.4Vpp
Differential impedance	100±15ohm
RS232/Ethernet control	
Baud rate and protocol	Baud rate: 9600, data bit: 8,
	stop bit: 1, no parity checking
Ethernet	IE10.0+, HTML5
Power	
Max Consumption	100W, 110-240VAC
Matrix Mechanical dimensions	
Size(mm)	430(L)X300(W)X44 (H)
Weight	5Kg
Operating temperature	0 to 40°C
Storage temperature	-20 to 70°C
Permissible humidity	10%-50%

VIS-VW4

Mini 4 Picture Video Wall Processor

Overview

The VW4 is designed to be performed as video wall processor, with its compact but versatile features, you can easily to realize video wall picture in many ways to manage the digital signal input, on the display like LCD, Plasma, TV etc.

The input signal types: HDMI, VGA, Composite video, moreover, the decoded video like RMVB, audio and Photos can be processed through USB. Output HDMI port to meet the most common interface on the display to support up to 1080P.

Features

It supports 4 channel HDMI output, connect to 4 pcs LCD, DLP, Plasma etc terminal display, to build a complete picture on it. Can be customized to 2x2, 1x4, 4x1 etc mode. Input signals support 1x Composite video, 1x HDMI, 1x VGA and 1x USB.

All-type-format signal--- including composite video, VGA, DVI, HDMI etc.
Advanced full digital chipset process --- Built-in conversion for analog/digital, interlaced/progressive, resolution, aspect ratio and refresh rate.

HDCP compliant---HDMI 1.3, HDCP protection

High precise picture margin stitching technology—Compare to normal video wall processor, it has unique physical margin decrease technology, to make the whole picture display in right dimension but not be processed into distortion picture.

Perfect Picture

Picture in distrotion

Specification

Type	Content
HDMI input	
Interface	HDMI（support HDCP1.3 and DVI1.0）
Resolution	Up to 1920*1080@60Hz
Color	24bit, 16.77M
VGA input	
Interface	DB15
Resolution	800*600 to 1920*1080@60Hz
AV input	
Interface	RCA
Identification	Auto
Standard	PAL, NTSC
USB	
Video	RM, RMVB, AVI, WMV, MOV, MP4, FLV, MPG, DAT, MPEG etc, resolution up to 1080P
Audio	MP3, WMA, FLAC and so on
Picture	JPG, BMP, PNG
Text	TXT
Audio input	VGA video
Audio output	With output video
HDMI output	1024*768@60hz, 720P@60Hz, 1080P@60Hz
Control	Remote, button, RS232
Dimension	260mm(L)x150mm(W)x44mm(H)

VIS-VW10

Picture Video Wall Processor

Overview

The VW10 is designed to be performed as video wall processor, with its compact but versatile features, you can easily to realize video wall picture in many ways to manage the digital signal input, on the display like LCD, Plasma, TV etc.

The input signal types: HDMI, VGA, Composite video, moreover, the decoded video like RMVB, audio and Photos can be processed through USB. Output HDMI port to meet the most common interface on the display to support up to 1080P.

Features

1.Multi-screen model

User can increase or reduce output modules due to VIS-VW10 adopt modular design. And single machine can 25 maximum HDMI joint signal output with compatibility DVI protocol. It can realize unlimited joint through cascade connection; According to user demand , single machine can be customized various kinds of multi-screen patterns such as 2*2, 3*3, 1*2, 2*3, 3*2, 2*4, 4*2, 2*5, 5*2 ect.

2.Input signal

It can support 4 input signal in total consist of 1 composite video, 1 VGA , 1 HDMI, 1 USB; and HDMI and USB interface with audio and video decoding function, composite video and VGA signal add relevant audio interface. What's more, all input video signal can switch to with audio output in synchronization. Following is the interface diagram:

3.Mirror function

Compare with common multi-screen processor, VIS-VW10 can realize 180°mirror overturn function toward each single display unit. It will be sharply decreasing the gap of LCD joint, which make image more vivid if LCD TV overturn 180°toward above row when user joint ordinary LCD TV. Following shown:

Before overturn

After overturn

4.Edge blanking function

Without edge blank function, all joint display unit have frame gap, which make image pull rip up in vision and feeling unnatural; Image more natural and lively without transformation and draw after edge blank process. Following are comparison diagram;

Without edge blanking function

After edge blanking process

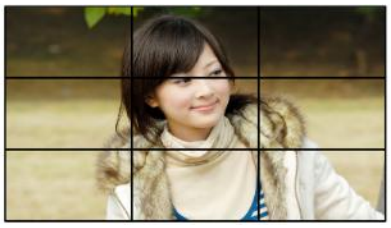
5.USB transmit function

Product can support USB transmit and joint function. After finishing LCD joint basic function, user can set merely video or image joint pattern play. It's simple and useful, no need extra allocation a computer or other broadcast equipment, only we need to do is insert a U disk at USB interface in our product multi-screen process.

- USB can support common video, image, MP3, TXT document;
- Can play select video or unselect
- All video can support play in order or cycle, pause, speed, program list
- 6 Key Function
- Realize shortcut switch VIDEO, USB, HDMI, VGA;
- Shortcut switch between joint and unjointed
- Adjust the wide and high of edge blanking
- Output volume control
- Adjust brightness, contrast ratio, color saturation
- Setting the Speed of USB , next song , program choose
- The other function of multi-screen processor

7. Customizable multi-screen joint(Following are part of customizing pattern)

2x2 Splice



3x3 Splice

3x2 Splice

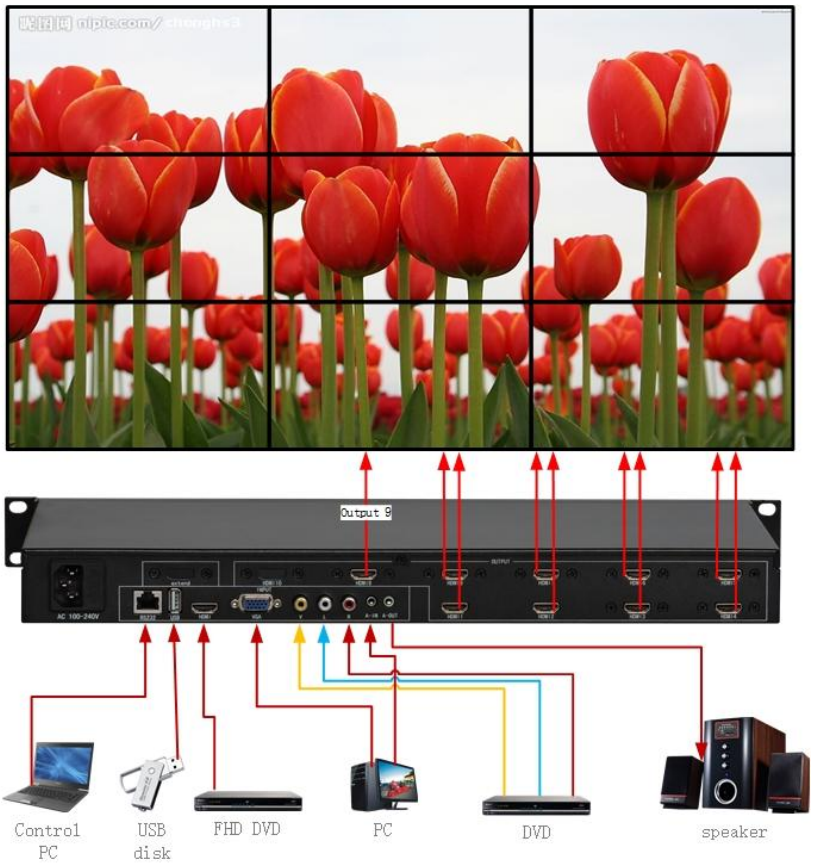
2x4 Splice

2x3 Splice

4x1 Splice

5x2 Splice

Diagram



Specification

Name	Specification
Input signal	
VGA	HD15 interface and link with 1 audio interface of 3.5 Support 640*480/85HZ to 1920*1200/60HZ
HDMI	HDMI 1.4(HDCP 1.3) DVI 1.0, HDMI embed audio
Video	Automatic identification the system of NTSC, PAL and SECAM, link with 1 audio interface of 3.5
USB	Standard interface of 2.0, can insert U disk, embed audio; Support video, image, MP3, TXT
Output signal	
HDMI interface	4 HDMI output, support joint pattern of 2*2,1*4,4*1; Support customizing output signal of 2 to 25; 1920*1080P/60HZ, 1280*720, 60HZ;
Audio	3.5 Audio interface, support left and right channels and stereo, AV signal switch synchronously
Others	
Control mode	RS232, IR , case key
Power supply	AC: 100 to 240 V
Joint pattern	Quad standard joint, single machine customize joint of 2 to 25
Power	20W
Case size	
Dimensions(1U)	1U 19 inch standard crate,442mm(L)*45mm(H)*242mm(W)
Weight(1U)	2.5KG

About VISSONIC Electronics Limited

Our mission is to develop and manufacture the most comprehensive and innovative audio visual products for our clients. We provide the best performance/price ratio products because it could give you satisfaction just from the time you use them, we believe the good design with cutting edge technology on products will provide value to all our partners and end users. Listen to your demands, we fulfill it.

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