



For

Intellitech

Video & Image Processing

For any query contact us at –
sales@intellitechglobal.com



Configurations –

4 in 4 out

8 in 8 out

12 in 12 out

16 in 16 out

20 in 20 out

24 in 24 out

Support up to 320 in & 320 output

Video Wall Controllers

The Most Versatile Architecture

1. Signal Acquisition:

- VGA, DVI, HDMI, CVBS, DP, Dual-Link DVI SDI, HDBaseT, IP-Video, Fiber etc.
- 900x600, 1366x768, 1400x900, 1920x1080, 4K and customized resolution

2. Control via:

- RS232
- Network
- Key button
- Remote control

Modular Design

- Flexible Configuration, Expandable and easy Maintenance.
- Hot-Swappable Redundant PSU
- Hot-swappable I/O Cards

Powerful Processing

- Up to 320 inputs 1080P/ 4K input
- Up to 320 outputs screens video wall
- Input resolution up to 3840x2400@30/60Hz or 2560x1600@60Hz
- Output resolution up to 3840x2160@30/60Hz



Modular Design

Features

Video & Image Processing

Functions:

- Support at least 4x windows on single screen
- Support roaming, PIP, zooming in/out, stretching, scene switch.
- Any size is possible on any screen



Support roaming



PIP



Zooming in/out



Stretching



Scene switch



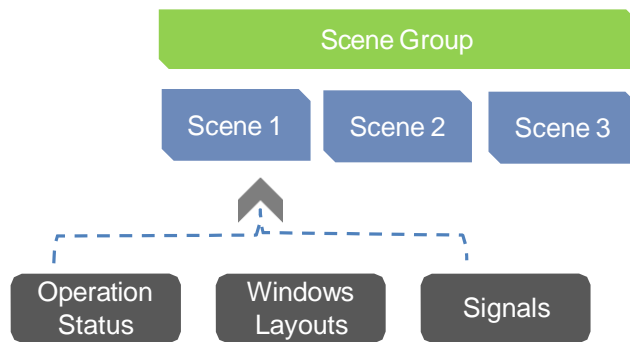
Flexible Windows Layouts

Features

Video & Image Processing

Scene management

- Customized scene
- Auto-cycle of saved scenes
- Up to 255x scenes



Scene management

Software Functions

Video & Image Processing

Visual Operation

Software Screen with Preview



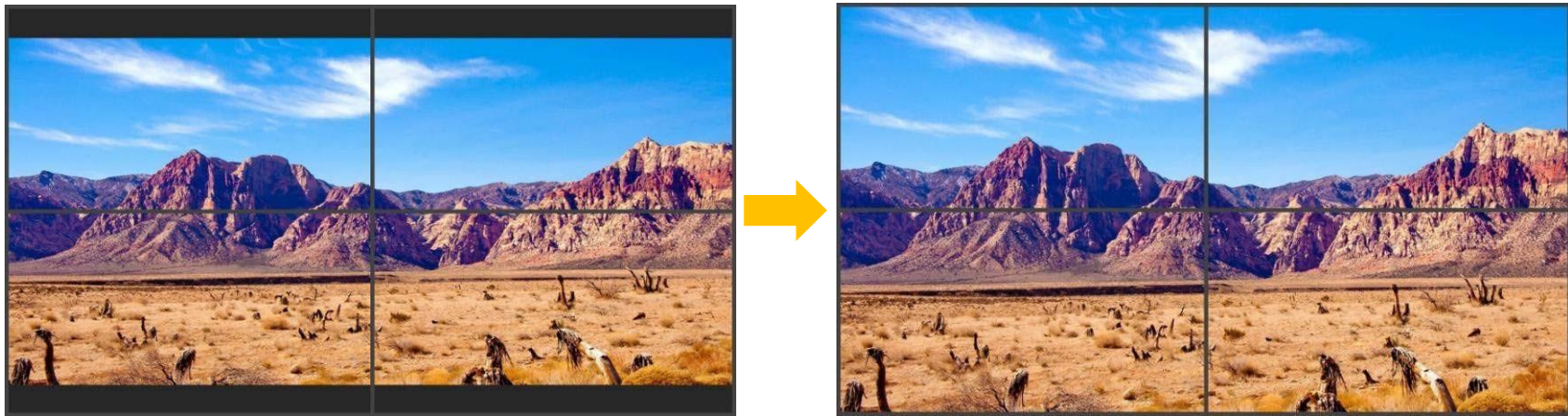
Real time previewing signal content via control software

Visual Operation

Software Functions

Video & Image Processing

Image cropping



- Supports arbitrary cropping by pixel
- Detail enlargement

Image cropping

Features

Video & Image Processing

Subtitle Editing



OSD Editing

Features

Video & Image Processing

EDID Editing



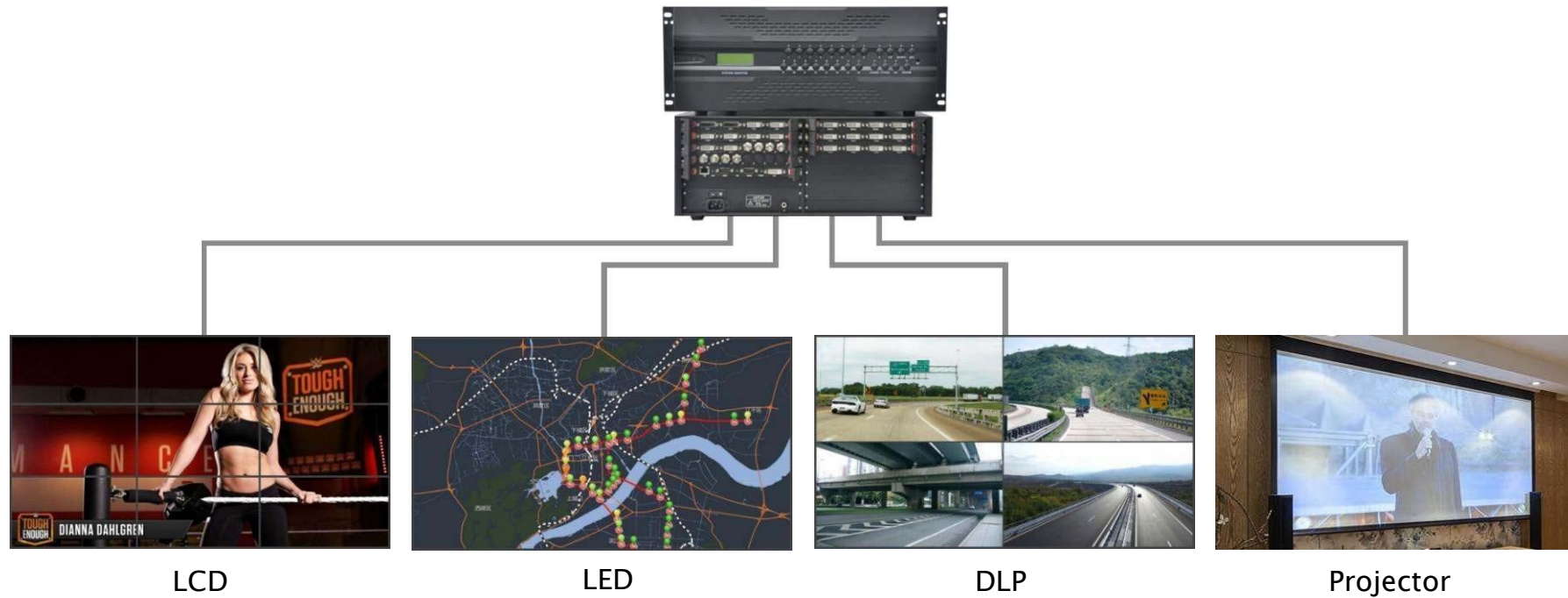
Support EDID (Extended Display Identification Data,) to read, modify, customize, greatly improves the input signal source compatibility, enabling the device input interface can be adapted to a variety of conventional and unconventional applications occasion

EDID Editing

Features

Video & Image Processing

Multi-group control



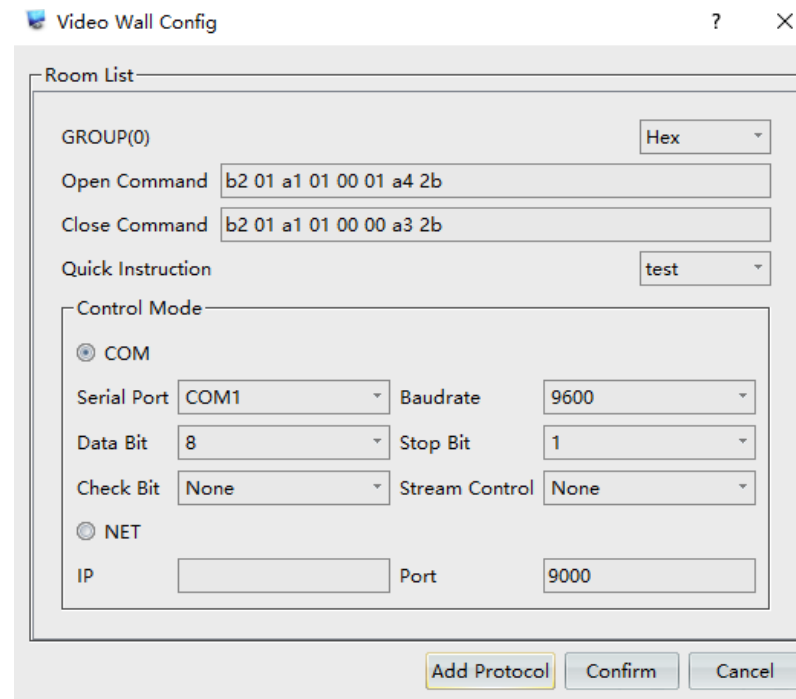
Multi-group control

Third party device control

1. Video wall

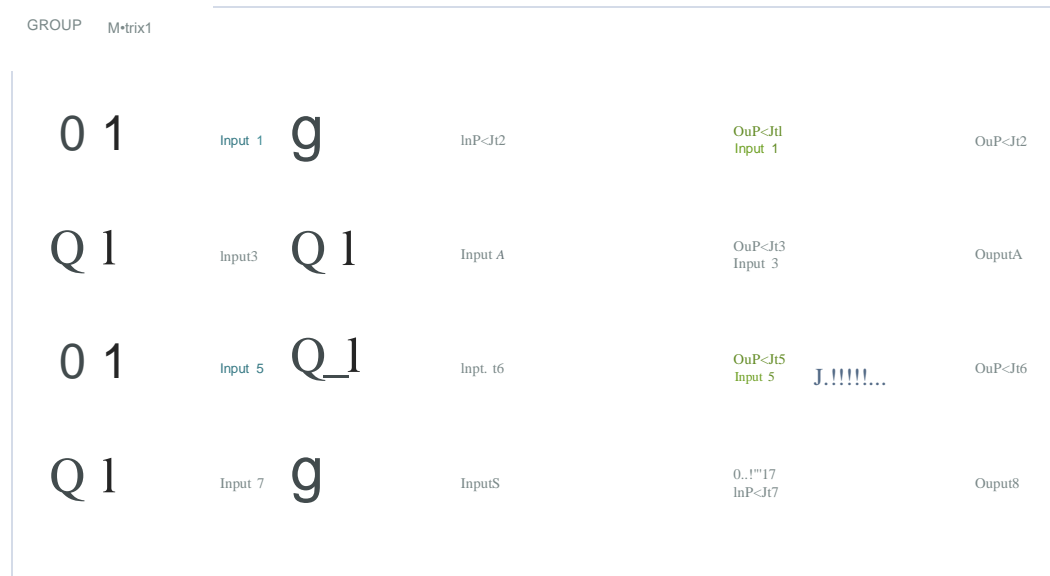


- Video wall screen power on/off
- Custom control protocol
- Network and serial port control



Third party device control

Hybrid Matrix Function



Hybrid matrix function

Hybrid Matrix Function

General Matrix



Display base switching

- Input : Signal source
- Output : Display

ICS Series



Windows base switching

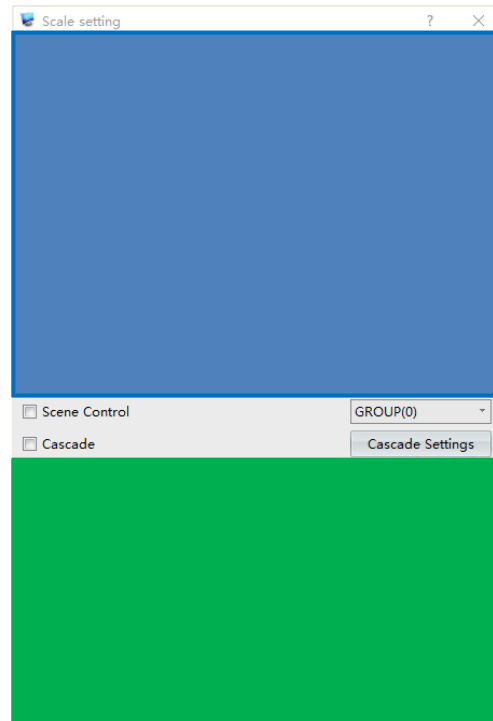
- Input : Signal source
- Output : Display signal windows
(Support overlay, roaming, PIP, zooming in/out, stretching, scene switch)

Hybrid matrix funtion

Software Functions

Video & Image Processing

Hybrid Matrix Function



- ICS Series Support controlling third party matrix
- ICS Series Supports network and serial control
- ICS Series Supports protocol control, easy to be integrated into central control system

Hybrid matrix funtion

Intelligent Central Control System



Control4

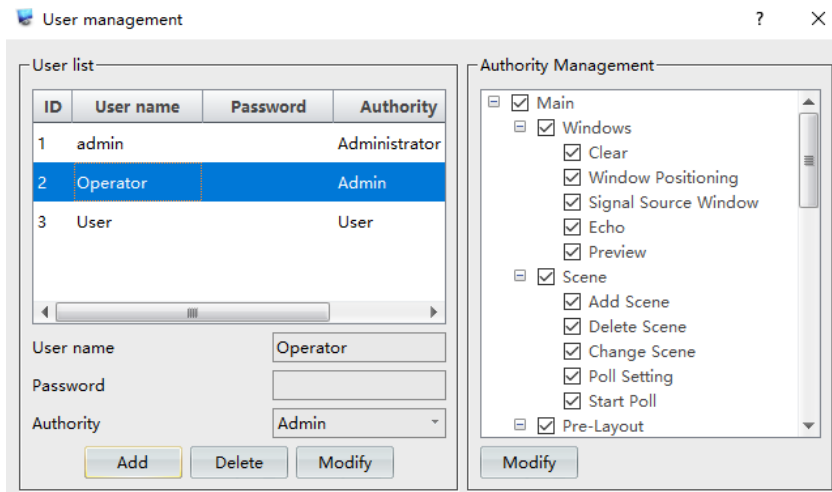
- Support Crestron, AMX, Control4 or any other central control system

Central control

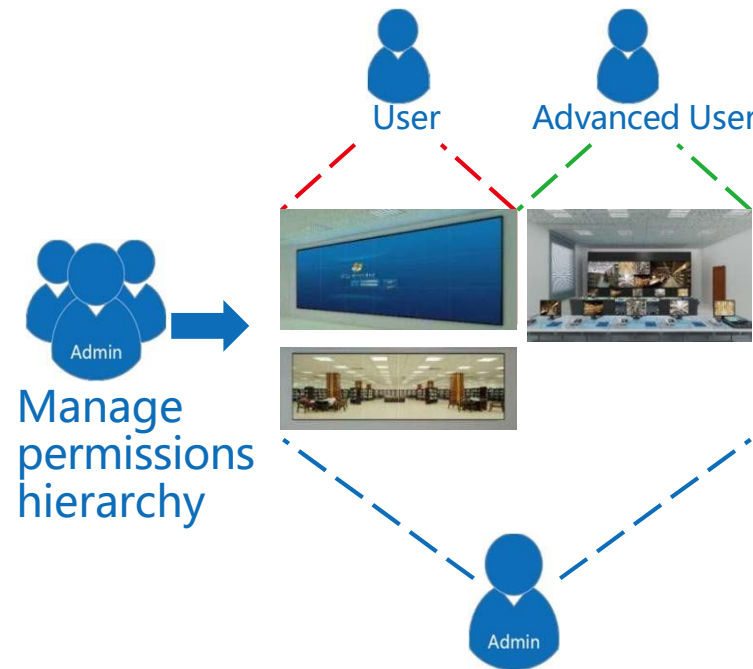
Software Functions

Video & Image Processing

Multi-user Management




ICS Series supports user privilege level setting, the operation authority is different at different level.



Multi-user Management

Timing control

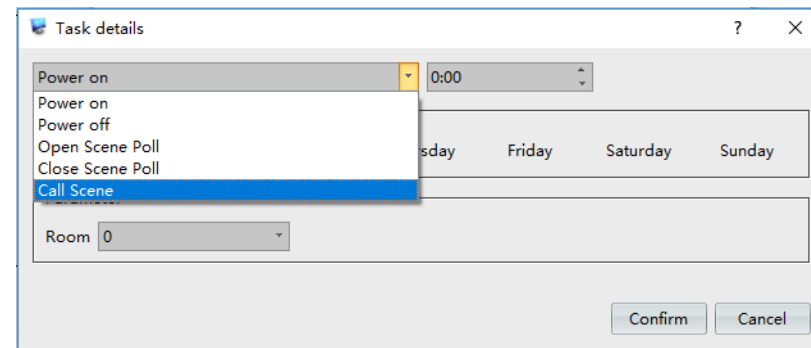


Function Config

Test Window Language **Timing Task** System Upgrade Boot Settings Choosing Close User Authority Modify Password

Task system

ID	Task	Time	Week	Create Tin
0	Power off	14:32	Wednesday	2017-11-01
1	Power on	14:33	Wednesday	2017-11-01



Task details

Power on 0:00

Power on
Power off
Open Scene Poll
Close Scene Poll
Call Scene

Room 0

Confirm Cancel

1. Video wall power on/off
2. Scene poll on/off
3. Call scene

Timing control

Multi-group control

Screen resolution :1920 x 1080



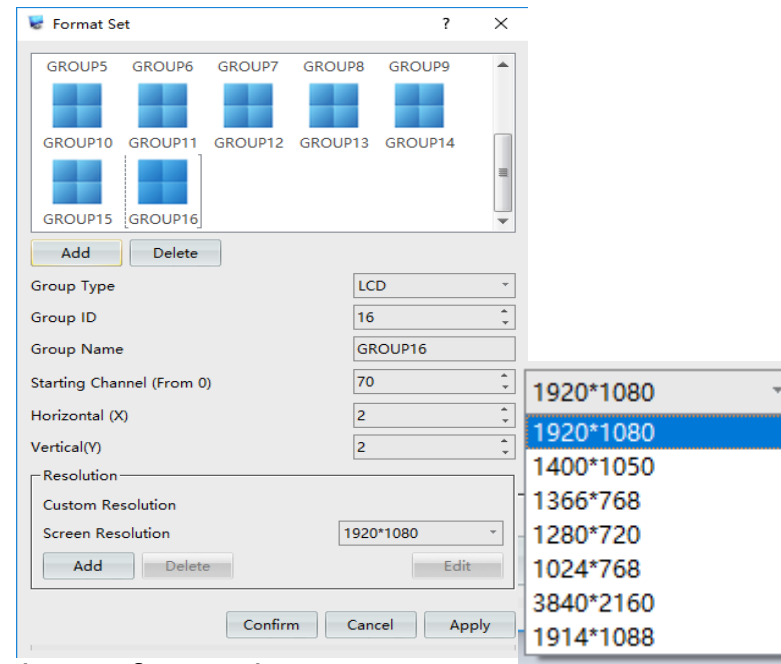
Screen resolution :1366 x 768



Screen resolution :3840 x 2160



Screen resolution :1400 x 1050



- Support for 16 groups of screen control
- Supports selection or customization of screen resolution for each group

Multi-group control

IPad Control



Mobile control application support the Tablet PC intuitive signal sources. With a finger drag and drop the signal source from the list onto the big screen to open the window.

Functions: Signal Previewing

IPad Control

Software Functions

Video & Image Processing

IPad Control



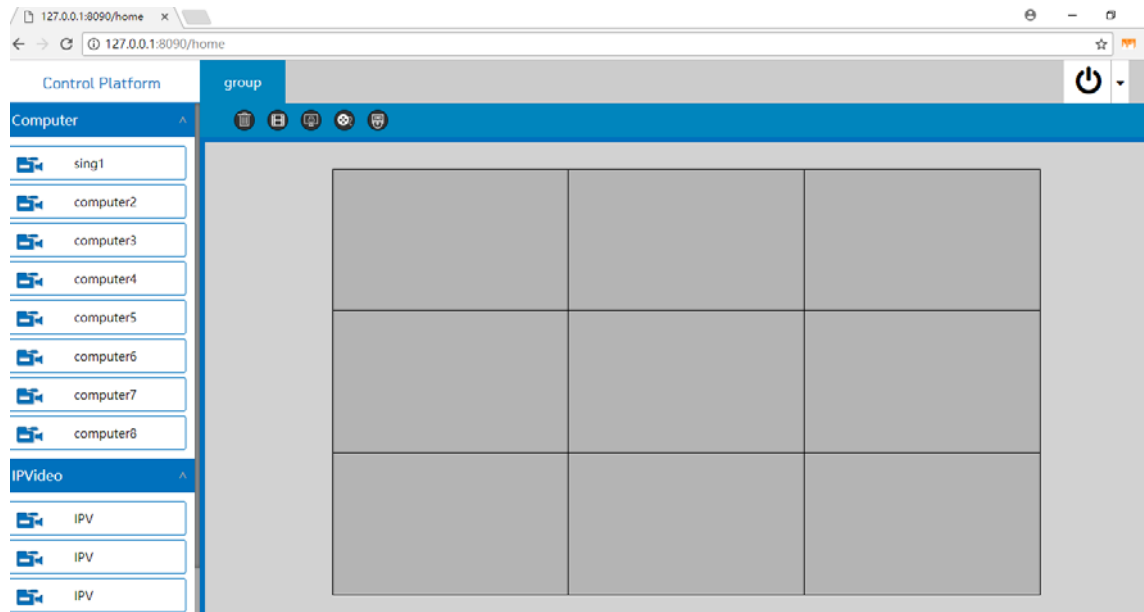
- Support fast open windows and precise positioning
- Support change signal source naming
- Support scene save and call
- Support large screen switch

IPad Control

Software Functions

Video & Image Processing

Web Control



- Video wall power on/off
- Open windows, fast position
- Scene management

B/S Control

Specification

Chassis	4U	8U	16U	16UA	16UB	28U	32U
Control Card	1	1	1	1	1	1	1
Input Slot	4	9	20	29	15	40	80
Max HD Inputs	16	36	80	116	60	160	320
Output Slots	4	8	20	15	29	40	80
Max Wall Size	16	32	80	60	116	160	320
PSU	1+1	1+1	2+2	2+2	2+2	4+4	8+8

Input Cards



8-Channel CVBS Input Card



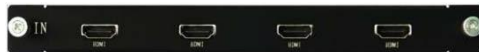
Quad-Channel SDI Input Card



Quad-Channel DP Input Card



Quad-Channel VGA Input Card



Quad-Channel HDMI Input Card



Quad-Channel DVI Input Card



Dual-Channel Dual-Link DVI Input Card



Quad-Channel HDBaseT Input Card



Dual-Channel IP Streaming Decoder input card



Dual-Channel 4K HDMI Input Card



Quad-Channel Fiber Input Card



Dual-Channel 4K DP Input Card

Input Cards

Specification

Video & Image Processing

Output Cards



Quad-Channel DVI Output Card



Quad-Channel HDMI Output Card



Quad-Channel VGA Output Card



Quad-Channel HDBaseT Output Card



Dual-Channel 4K HDMI Output Card



Quad-Channel CVBS Output Card



Quad-Channel SDI Output Card



Quad-Channel Fiber Output Card

Output Cards



ICS SERIES	LIST OF MODEL NO.
	ICS Series 4/4
	ICS Series 8/8
	ICS Series 12/12
	ICS Series 16/16
	ICS Series 20 /20
	ICS Series 24/24
	ICS Series 28 /28
	ICS Series 32/32
	ICS Series 36 /36
	ICS Series 40/40



Parameter	Minimum Required Specifications
Chassis 1/2	
	Input – 4 to 320 Inputs HDMI, Full HD
	Outputs – 4 to 320 Outputs HDMI, Full HD
	IP Video De-coder Cards 4 to 100
	Protocols: HDCP

Parameter	Minimum Required Specifications
Display Controller Chassis 1	Video Distributor, Display controller to control Video wall in a matrix as per requirement with necessary software:
	Technology Adopted: Intel based FPGA Chip
	Processor specs: Single Xeon/Dual Xeon E-5 Series
	RAM: 8 GB expandable upto 128 GB DDR4 minimum
	HDD: 1 Tb x 2 Hard Disk, Power Supply – Hot Swappable, Redundant
	Network support: Gigabit Ethernet Controller inbuilt, Support for Add on Network adapters.
	Videowall Display: Display multiple source windows in any size, anywhere on the wall.
	Accessories: DVD-R,DVD+RW, Keyboard, mouse
	OS Support: Windows 10 or higher.

Software Features -

Display & Scaling, Input Management, Scenarios management

Display multiple sources anywhere on display up to any size

Support overlap, stretch, cross screen, PIP of any input on the screen.

All input sources can be displayed on the video wall in freely resizable and movable windows

allow brightness and contrast to be adjusted

Save and load desktop layouts from local or remote machines

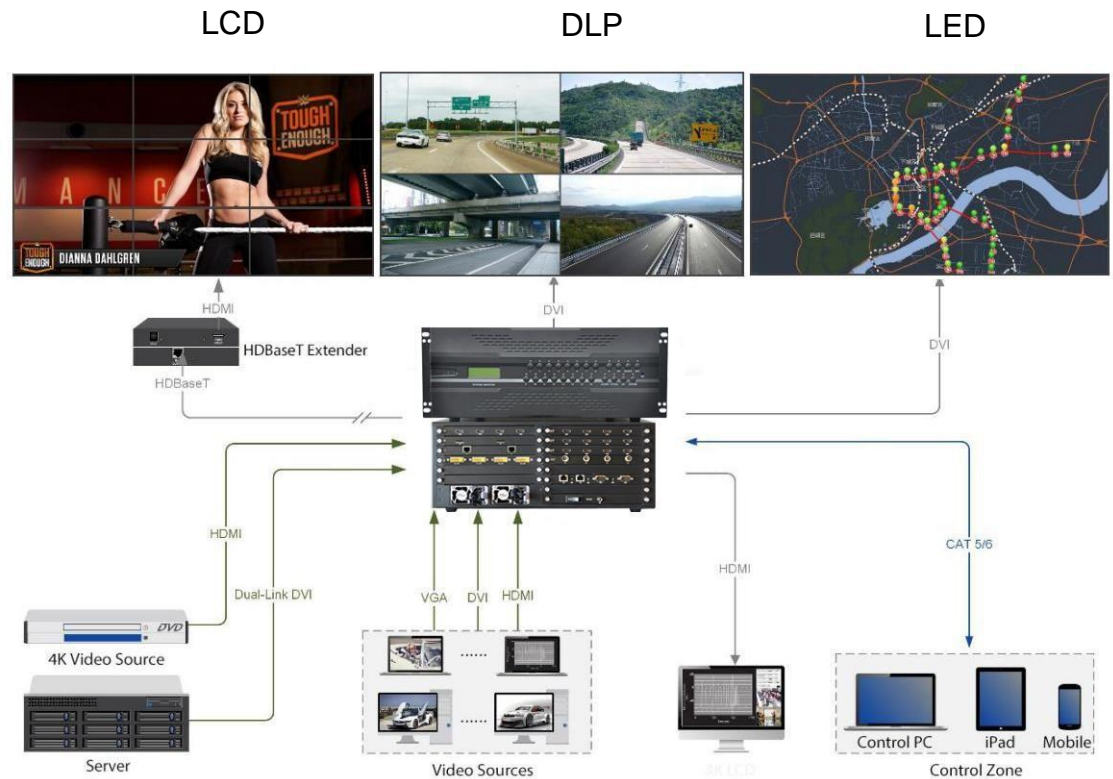
Layout Management

Support all layout from input sources, Internet Explorer, desktop and remote desktop application

Multi View Option

Multiple view of portions or regions of Desktop, multiple application can view from single desktop

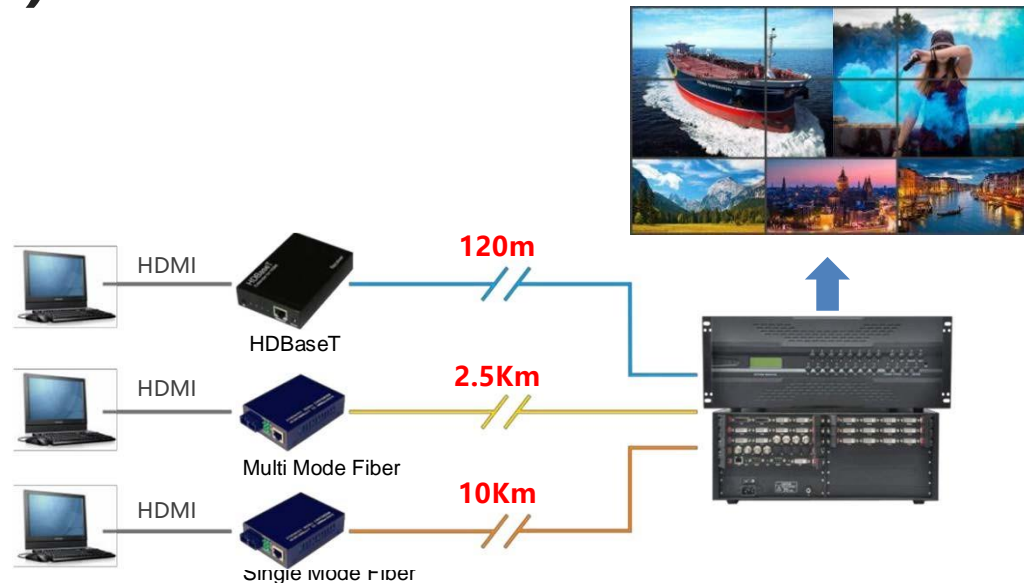
General Application



Long distance transmission (solution diagram)

Long-distance Transmission

	DVI	---
	10M	
	VGA	--
	20M	
	HDBaseT	--
	120M	
	Fiber-1F	-- 10Km



- ◆ Support signal long-distance transmission, to achieve interconnection between floors and buildings

Multiple video wall groups (solution diagram)

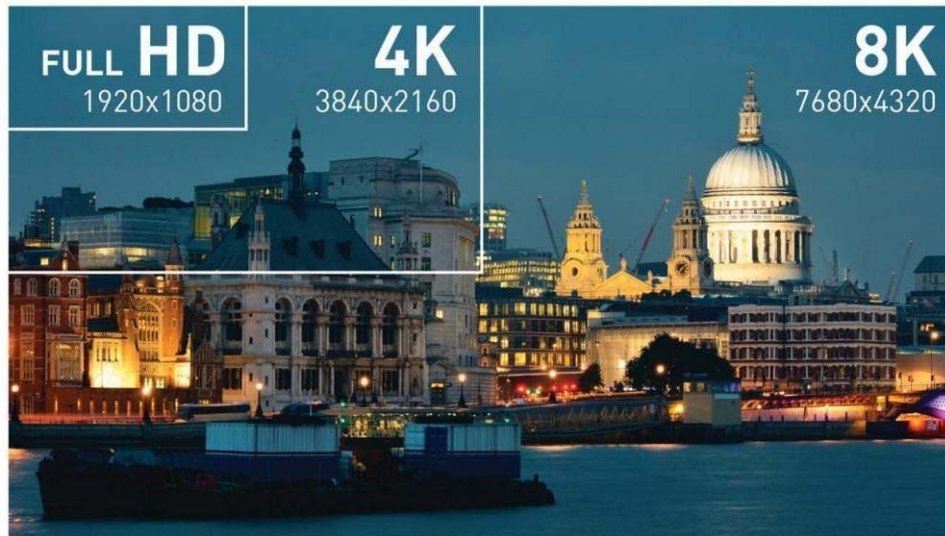


- Supports multi screens grouping management
- Each group can cofig different display devices and resolution.
- Support 16x groups per unit
- Variety of display terminals and resolutions
- Deployment in many different floors and rooms

- Contro room

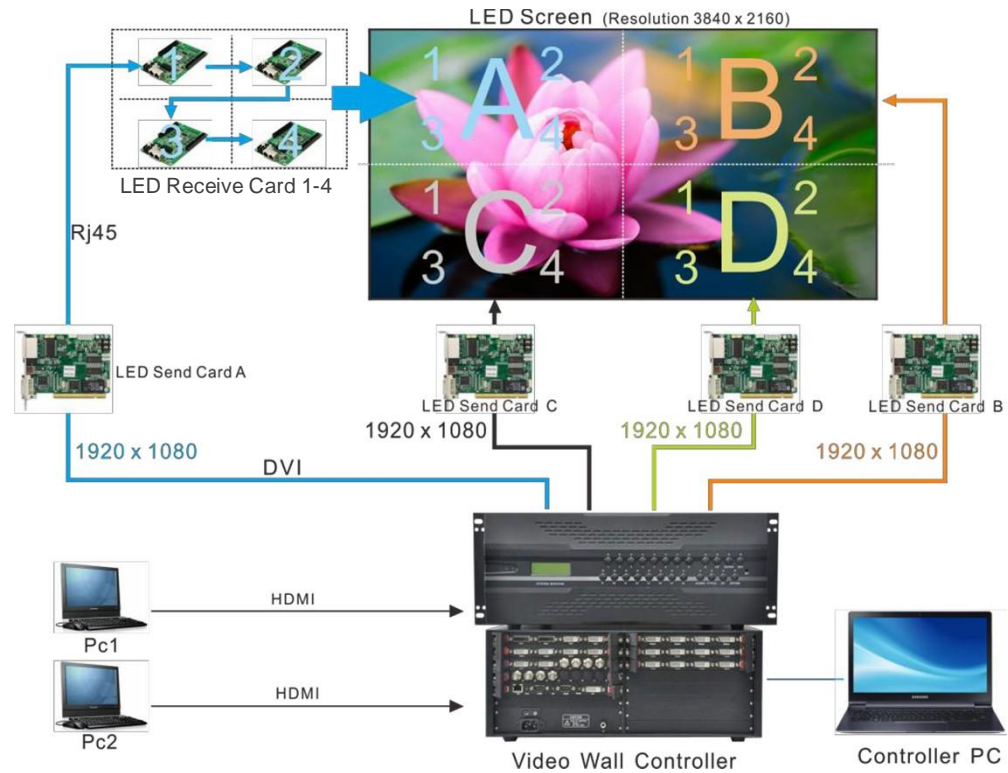
Ultra-HD-8K / 4K input 4K output

Support high-definition PC basemaps, real-time display of various data information (GIS)



- ① Single-channel acquisition 7680x1536, 4096x4096 ultra-high signal
- ② Supports 4K (3840 × 2160) output
- ③ Meet a variety of GIS, GPS, SCADA, SIG and other ultra-high-data-point application environment

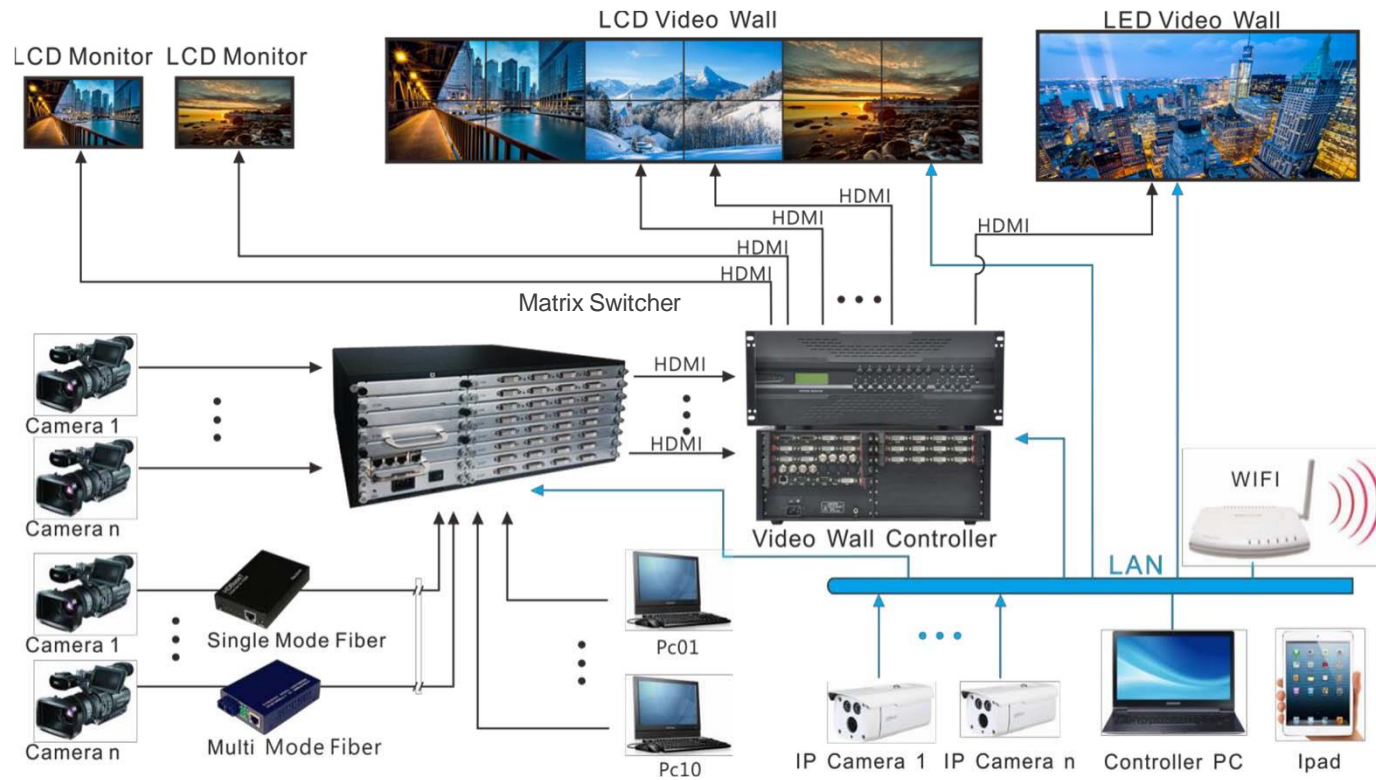
LED Application



Application

Video & Image Processing

Work with Matrix Switchers



Application

Video & Image Processing



Application

Video & Image Processing

Markets



Convention Center



Live Center



Surveillance Center



Command Center

Special Advantage

1. Support up to 16 x groups of video wall control, each group's screen resolution can customized;
2. Support software encode, PC signal can display to the video wall directly through network;
3. IP streaming Card: Each card can decode 32 channels 1080p@30Hz or 16 channels 1080p@60Hz;
4. Support Multi-users and Multiple control at the same time;
5. Hyper Lane Bus available.
6. Support Matrix function and matrix command;
7. Timing task;
8. Ethernet data rate - 10/100/1000 Base-T
9. Soft preview and ehco function, no need extra slot etc.
- 10.Quick window position.

Thanks!

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