

————— **Modular chassis, iOS/Android APP control&Preview&scrolling text** —————



# FPGA pure hardware architecture

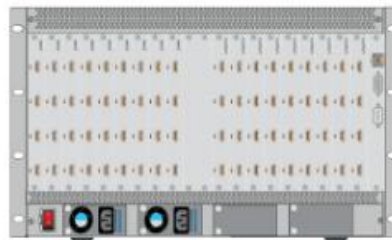
- No internal operating system, no system crash, virus intrusion, compatibility and other issues.
- Modular design (including input card, output card, switch card, control card, fan)
- Easy for future upgrade or any maintenance
- Support hot plug-in
- Supports optional redundant power supply.



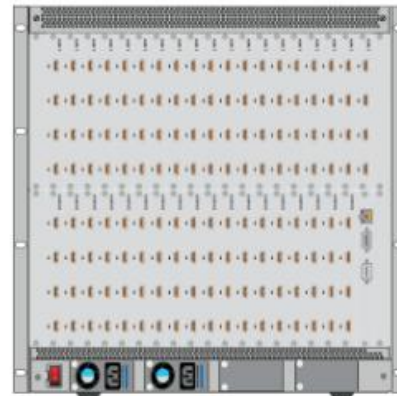
**2.5U Chassis**



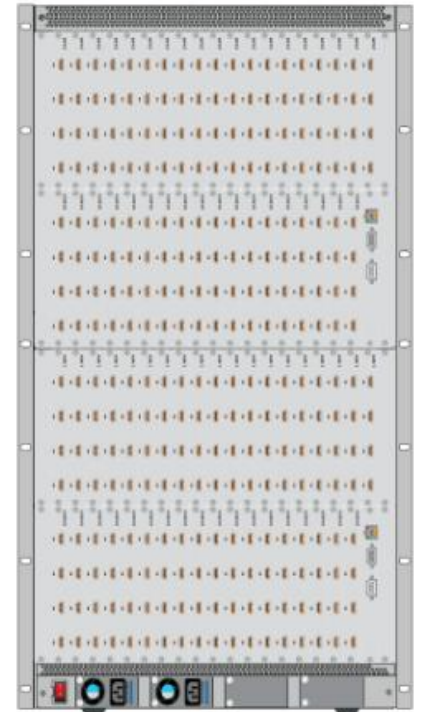
**4U Chassis**



**6.5U Chassis**



**11U Chassis**



**20U Chassis**



# Advanced image process

- Supports picture in picture
- Supports picture on picture
- Cross screen, window size&position any adjustment
- 4-windows per screen





# Advanced bezel correction



Original Image



No bezel correction

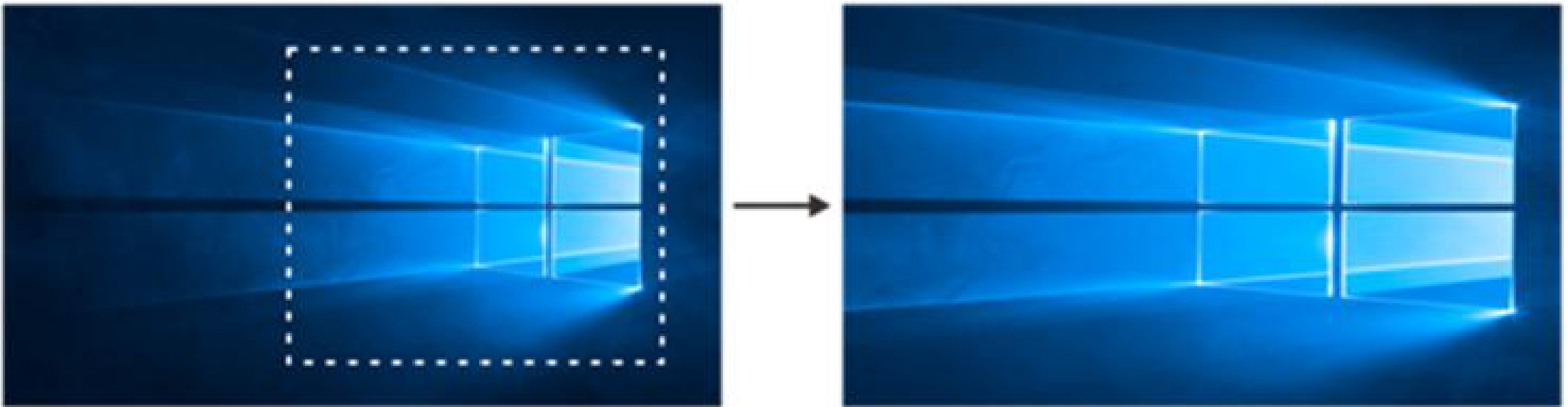


After bezel correction



# Image crop function

This function is to crop part of the content from the input source, then as a new source to show on the VW, and set the position of the intercepted content arbitrarily







# Input sources and VW Wall real-time preview

With the optional preview card, it's able to preview the input source

And also the contents on the Video Wall

This preview function are working on both PC control software or the APP control

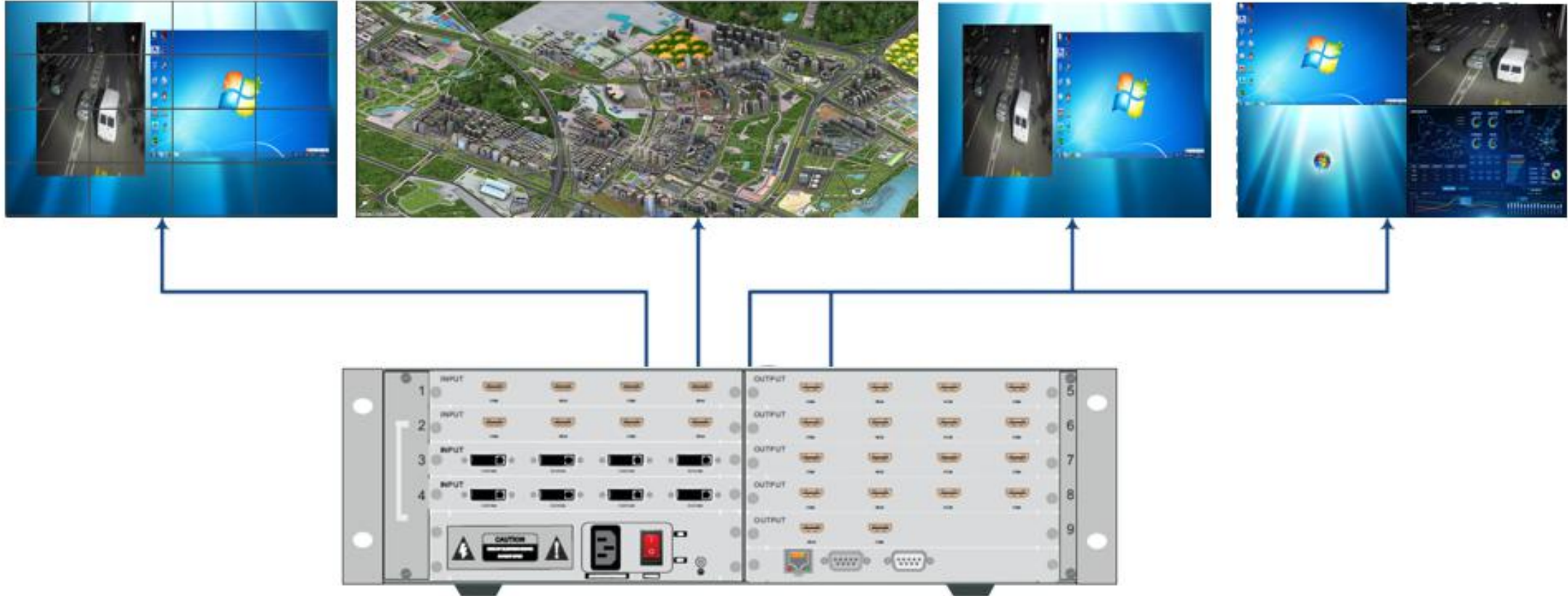




# With one processor to manage multiple VW

Can support up to 4 VW groups

Both LCD and LED video wall can be managed by one processor(Need different output card)

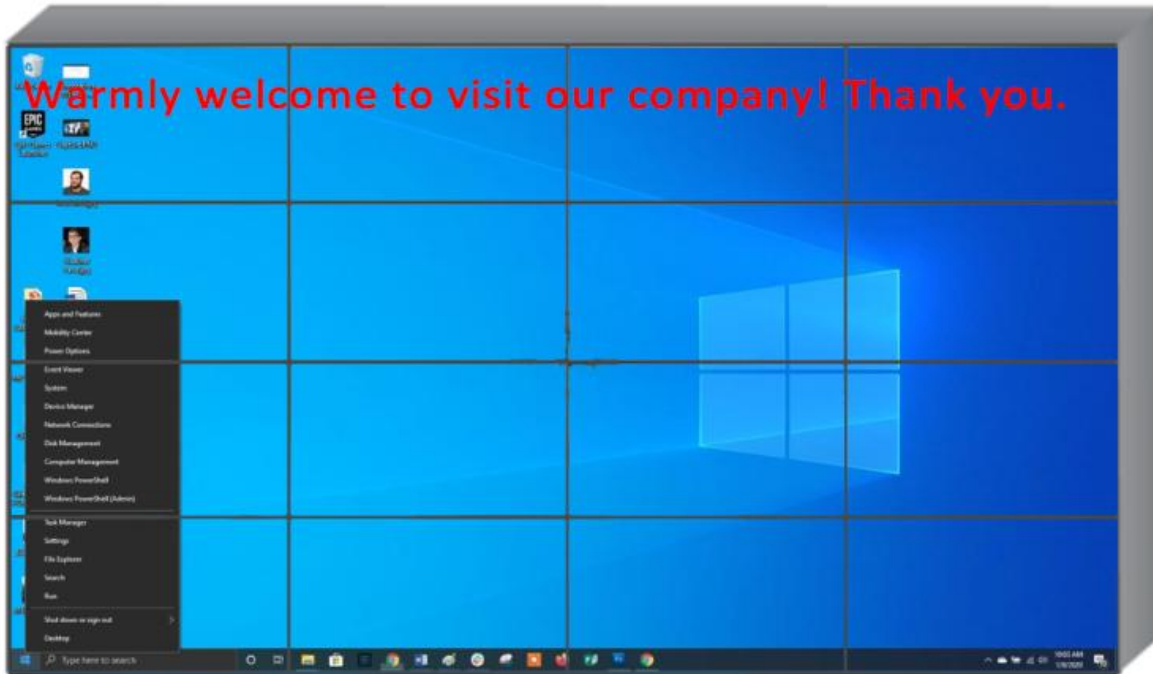




# Scrolling text and signal OSD function

Can support the scrolling text function by adding the functional card

The input signal can support to customize the OSD(on screen display) function







# Background image function

Can support to customize the HD background image(need to add the functional card)

It will show this image when no input sources





# IP Camera decoding with the IP input card

Can support the RTSP protocol

Use the H.264 and H.265 technology





# Control UI screenshots for OSD and Crop

Text overlap function is to mark the input source

Source crop function is to crop the input content

VideoWall Control Software Platform V5.3.0

Settings Menu

- Input Source
- Input Preview
- Scene

Input Source

- HDMI
  - Laptop
  - Playe
  - Input
  - Input 4
- IP Streaming
  - 192.168.1.1
  - No RTSP
- DP/HDMI 1.4
  - 4K HDMI
  - 4k DP
  - 7
  - 8

Output Resolution: 1920x1080 60.00Hz

No.1 Location:[0,0] Size:[1920,1080]

No.2 Location:[2405,219] Size:[1306,627]

No.3 Location:[641,1434] Size:[807,405]

No.4 Location:[2341,1442] Size:[994,481]

Temp: 39.55°C

4:35 PM 1/26/2021

Text Overlap

Overlap Text: a Send

Red 0

Green 0

Blue 0

X-Start 0

Y-Start 0

Open Close

Source Setting

Content Setting

Start X: 0 End X: 1919

Start Y: 0 End Y: 1079

Confirm



# Control UI screenshots for User rights Management

Admin with full rights and add the customized users with different rights

The screenshot shows the 'User Rights Management' window for user 'admin'. The 'Current User' is 'admin'. The interface includes a 'Permission Assignment' section with various checkboxes, many of which are checked. The 'VideoWall No.' is set to 'VideoWall 1'. At the bottom, there is a 'Change Password' section with input fields for 'Old Password', 'New Password', and 'Confirm Password', and a 'Confirm' button.

Permission	Checked
The software function selection	<input type="checkbox"/>
License File	<input checked="" type="checkbox"/>
Export File	<input checked="" type="checkbox"/>
Import File	<input checked="" type="checkbox"/>
About	<input checked="" type="checkbox"/>
Video Wall	<input checked="" type="checkbox"/>
Input	<input checked="" type="checkbox"/>
CBD Setting	<input checked="" type="checkbox"/>
Background Picture	<input checked="" type="checkbox"/>
Text Overlap	<input checked="" type="checkbox"/>
Add Resolution	<input checked="" type="checkbox"/>
Initial Mode	<input checked="" type="checkbox"/>
Screen Control Setting	<input checked="" type="checkbox"/>
Color Adjust	<input type="checkbox"/>
Signal Preview	<input type="checkbox"/>
Scene Cycle	<input checked="" type="checkbox"/>
Change Resolution	<input checked="" type="checkbox"/>
Bezel Compensation	<input checked="" type="checkbox"/>
Setting	<input checked="" type="checkbox"/>
Save Scene	<input checked="" type="checkbox"/>
Scene Recall	<input checked="" type="checkbox"/>
Delete Scene	<input checked="" type="checkbox"/>
New	<input checked="" type="checkbox"/>
Clear	<input checked="" type="checkbox"/>
Open Window	<input checked="" type="checkbox"/>
Close Window	<input checked="" type="checkbox"/>
Channel Switch	<input checked="" type="checkbox"/>
Move Window	<input checked="" type="checkbox"/>

The screenshot shows the 'User Rights Management' window for user 'rocky'. The 'Current User' is 'rocky'. The interface is identical to the 'admin' user view, but all checkboxes in the 'Permission Assignment' section are unchecked. The 'VideoWall No.' is set to 'VideoWall 1'. At the bottom, there is a 'Change Password' section with input fields for 'Old Password', 'New Password', and 'Confirm Password', and a 'Confirm' button.

Permission	Checked
The software function selection	<input type="checkbox"/>
License File	<input type="checkbox"/>
Export File	<input type="checkbox"/>
Import File	<input type="checkbox"/>
About	<input type="checkbox"/>
Video Wall	<input type="checkbox"/>
Input	<input type="checkbox"/>
CBD Setting	<input type="checkbox"/>
Background Picture	<input type="checkbox"/>
Text Overlap	<input type="checkbox"/>
Add Resolution	<input type="checkbox"/>
Initial Mode	<input type="checkbox"/>
Screen Control Setting	<input type="checkbox"/>
Color Adjust	<input type="checkbox"/>
Signal Preview	<input type="checkbox"/>
Scene Cycle	<input type="checkbox"/>
Change Resolution	<input type="checkbox"/>
Bezel Compensation	<input type="checkbox"/>
Setting	<input checked="" type="checkbox"/>
Save Scene	<input checked="" type="checkbox"/>
Scene Recall	<input checked="" type="checkbox"/>
Delete Scene	<input checked="" type="checkbox"/>
New	<input checked="" type="checkbox"/>
Clear	<input checked="" type="checkbox"/>
Open Window	<input checked="" type="checkbox"/>
Close Window	<input checked="" type="checkbox"/>
Channel Switch	<input checked="" type="checkbox"/>
Move Window	<input checked="" type="checkbox"/>

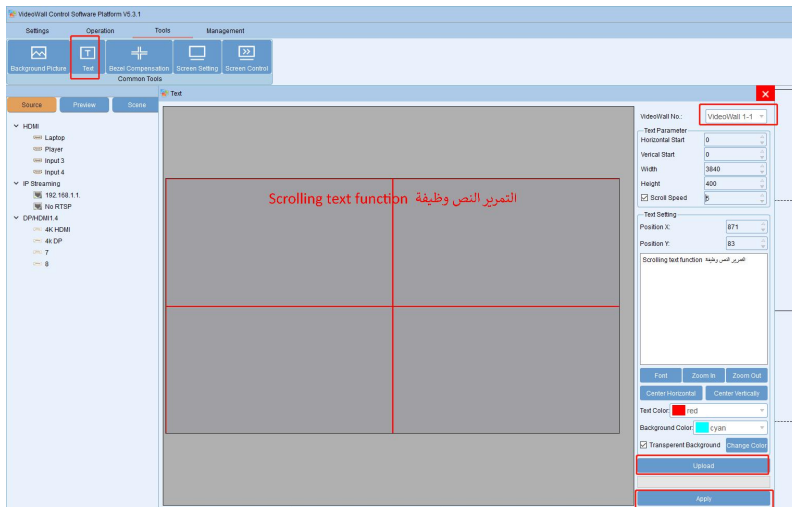
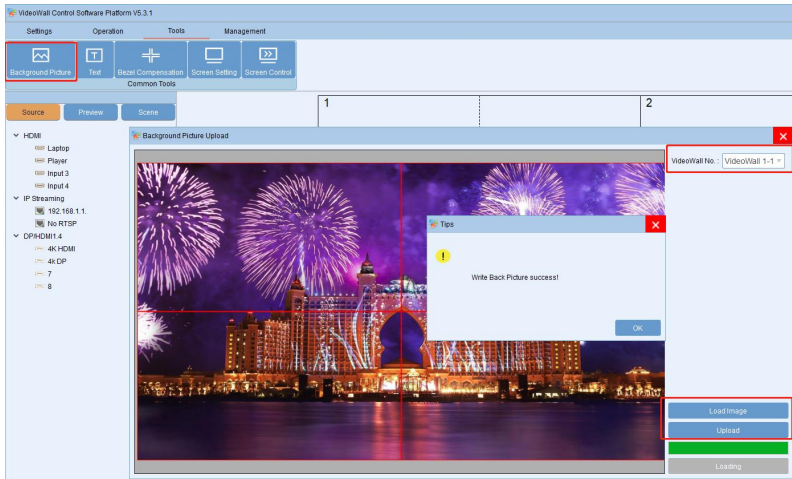




# Control UI screenshots for Background image and scrolling text

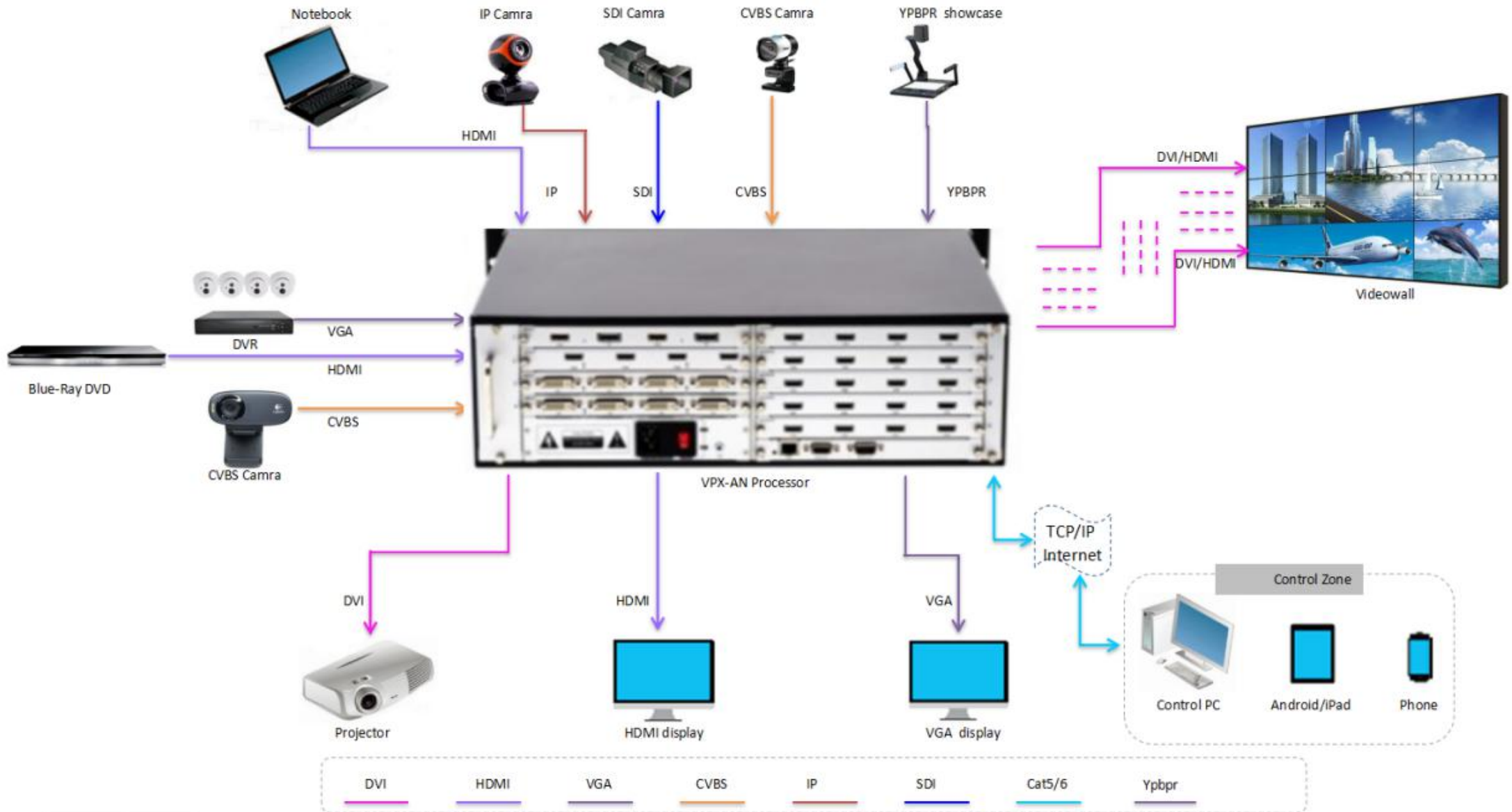
User can upload the background image

Customize the scrolling text













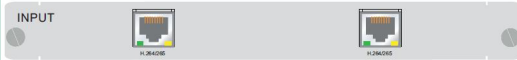
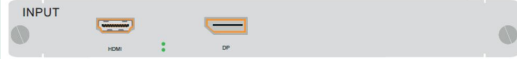
# Connection Diagram














# Available input cards

Name	Picture	Data
4-port DVI-I input card(24+5 DVI-I)		DVI1.0, HDCP1.3, HDMI1.3, Crop and OSD,1920x1200@60Hz
4-port HDMI input card(HDMI Type A)		HDMI1.3,HDCP1.3, Crop and OSD,1920x1200@60Hz
4-port VGA input card(D-Sub 15-PIN)		RGBHV,RGBS,RGsB,RSGsBs, Crop and OSD,1920x1200@60Hz
4-port CVBS input card(BNC)		Compatible with NTSC3.58,NTSC4.42,PAL,SECAM Crop and OSD, 480i,576i resolution
4-port YPBPR input(RCA X3)		Supports EIA-770.2a protocol Ccrop, OSD 480i,576i,480p,576p,720p,1080i,1080p
2DVI+2VGA input card		Supports DVI and VGA protocol Singal crop and OSD, 1920x1200@60Hz resolution
2HDMI+2VGA input card (24+5 DVI-I and D-Sub 15)		Supports HDMI and VGA protocol Singal crop and OSD, 1920x1200@60Hz resolution
4-port SDI input card with 4 SDI loop out (BNC)		Supports SMPTE424M,SMPTE292M,SMPTE259M Supports SD-SDI, HD-SDI, 3G-SDI, 1080p resolution
2-port IPinput card(RJ45)		Supports H.264, H.265, MPEG-4 format 1-port with one 4K, four 1080P, nine 720P, Sixten D1
1-port 4K HDMI/DP input card (Type A)		Supports HDMI1.4, DP1.2 Supports maximum resolution 3840*2160@30hz



# Available output and functional cards

Name	Picture	Data
4-port HDMI LCD output card with 4-windows		4-port HDMI LCD output card(Type A) Supports HDMI1.3, HDCP1.3 and compatible with DVI1.0
4-port DVI LCD output card with 4-windows		4-port DVI LCD output card(DVI-I) Supports DVI1.0, HDCP1.3 and compatible with HDMI1.3
4-port VGA LCD output card with 4-windows		4-port VGA LCD output card(D-sub) Supports RGBHV, RGBS, RGSB, RsGsBs
4-port HDMI LED output card		4-port HDMI LCD output card(Type A) Supports HDMI1.3, HDCP1.3 and compatible with DVI1.0
4-port DVI LED output card		4-port DVI LCD output card(DVI-I) Supports DVI1.0, HDCP1.3 and compatible with HDMI1.3
1-port RJ45 preview card		1-port RJ45 preview card Support 64 channels signals preview Support to plug multiple preview cards Supports 8 channels preview with 30Hz Supports 64 channels preview with 10Hz 1 preview card will take 1 output slot
1-port RJ45 + 2-port RS232		Scrolling text and background image function card Supports the scrolling text and high definition background image Background image will take one-window Scrolling text will take one-window *This function card will NOT take the input/output slot