

UD VIEW LED TV and Video Wall Series

Indoor LED Display System Series - 2013



Unique & Trendy Design



- ▶ The LED display is light, trendy, and features a feeling of high technology;
- ▶ The UD View TV is module designed and the structure framework is composed of different single modules;
- ▶ Each unit has a new designed die-cast shell that features lightness, high precision, quickness in heat dissipation, fine looking and convenience in installation.

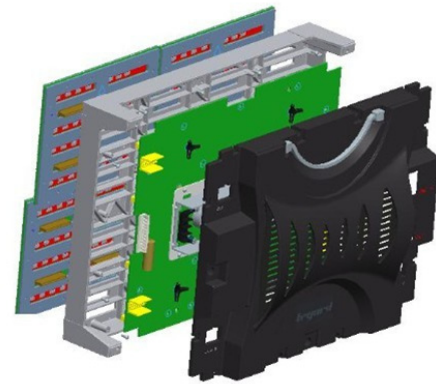
- ▶ Display units are fixed by locking device after being put in order horizontally and vertically, then forming a large screen;
- ▶ Modules are connected with bolts to the framework ensuring a quick installation
- ▶ Very light weight but strong in quality. The materials of the framework are made out of an aluminium alloy. The components for the installation and connection are made out of deep drawing aluminium sheets.



Unique & Trendy Design

The screen is low heat, quick in heat dissipation and no noise

- ▶ Highly efficient power supplies reduce the output power, thus reducing the heat of the supplies;
- ▶ The metal structure is in itself the best conductor of heat dissipation, which functions steadily and reliably and can keep running at all times (24 hours a day and 7 days a week);
- ▶ No fans needed on the back side because the screen dissipates heat through natural convection and features high degree of quietness.



Standard Interface Design

- ▶ The product data are input through high-definition multimedia interfaces (HDMI) which are widely used in this industry, thus realizing the transmission of large data volumes and high-quality images, meeting the requirement for high quality of images based on high resolution (HR) and promoting the competence of the LED screen;
- ▶ Plate-line connection among cabinet greatly promotes the reliability.



Excellent Quality & Performance

High Brightness that can be Adjusted

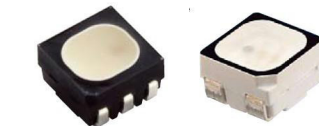
- ▶ With high ISO apparatuses, the LED screen can initiate self-adoption in different environments and the display effect won't be affected by strong environmental lighting.



Indoor LED TV 2.5 at Conference Room

High Contrast Ratio

- ▶ UD View LED TV uses high-quality black surface LED lights (Black SMD LED's) thus promoting luminance brightness and at the same time reducing the brightness when the screen turns black;

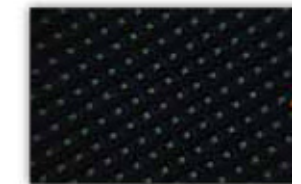


Black LED & White LED

- ▶ The black-mask treatment technology promotes the contrast ratio of the screen to a great extent;



Normal Mask



Black Mask

Broad Viewing Angle

- ▶ The super-broad viewing angle of over 160 degrees both vertically and horizontally creates excellent display performance at all angles for all users.

Quick Response

- ▶ The response of the LED screen is very fast and there is no smear ghost nor delay within nanoseconds.



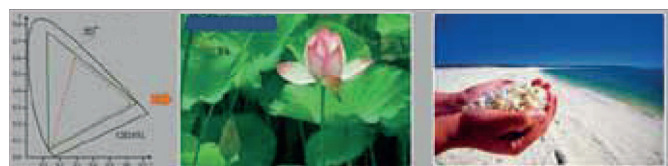
UD LED TV Display



Projector

Single Dot Calibration

- ▶ It possesses the advanced technology of green restoration and skin restoration;
- ▶ It can totally adapt to the visual habit of people towards colours by truthfully reflecting the colours of the natural world;



Green Colour
(Before Calibration)

Skin Colour
(Before Calibration)



Green Colour
(After Calibration)

Skin Colour
(After Calibration)

High Reliability

- ▶ Dual redundant power supply: the cabinet will keep on running normally when either a power supply breaks down;
- ▶ Hot backup of two-way signals: the hot backup of two-way signals is used as the input method and the cabinets' control modules will check the integrity of the two-way signals automatically;
- ▶ It possesses the signal return mechanism: all current function status of the cabinets can be reflected to the host computer.

Broad Casting Level Grayscale Processing

- ▶ The gray-scale of the screen is still excellent when it is at a very low level, in which condition the scene is more vivid than that of traditional displays;
- ▶ The shadow part texture of the pictures is very vivid.



Texture is very clear in all shadow parts

There are some black blocks showing at the shadow part

Really Seamless Splicing Technology

- ▶ The splicing of the LED display can be achieved at any direction, to any size and made in any shape. Compared to rear projectors and LCD's, there is no brightness difference or seam lines among different units. The delicate structure ensures the consistency of the distance among different points;
- ▶ The scene is very well-balanced in brightness and there is not any partition, seam line or information loss. You will be realizing the seamless splicing in the real sense.

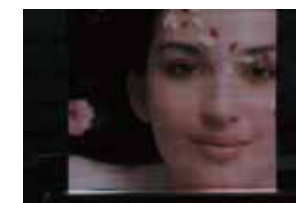
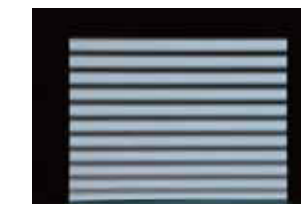


Germany 3D UD TV 2.5 Splicing Testing

Superb Refresh Rate

- ▶ The scene of the LED display is very steady, and has no wave warp or blank screen: motion pictures feature vivid edges and the motions are excellently displayed on the LED screen. This means that the picture information can be correctly showed and truthfully reflected and the video scenes are fine and very smooth, which brings fantastic visual experience to users;

- ▶ The backup reverse gamma correction technology ensures high fidelity of video pictures which makes them look more natural and more real;
- ▶ The brightness of the LED screen is uniform and the dot-brightness calibration is also provided, in other words perfecting the uniformity of the brightness of the whole screen.



3842Hz (Shutter Speed 2000)



426Hz (Shutter Speed 2000)

Multiple Pictures in Picture

- ▶ Compatible with the picture in picture function. The screen can show over 10 videos from different devices at the same time showing multiple pictures in one picture without losing speed nor quality.

The Screen Features Long Lifetime

- ▶ Vegas LED Screens has high experience and long history with LED screens choosing the right design for the drive circuits. It takes advantage of the service data of the screen, which are accumulated for many years, and the components that are used are very steady and reliable, ensuring the LED screen can be used for a very long time.



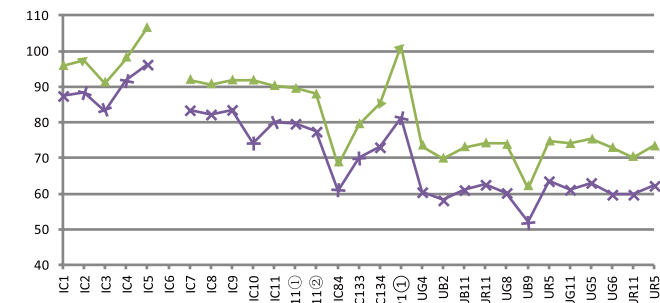
**High Efficiency PFC Power Supply:
more energy saving**

- ▶ By using power supplies with the PFC (Power Factor Correction) function, the disturbance towards the power supply system by different components in the circuit is reduced, this means that the grid will be purified and improving the computer quality.



High Efficiency PFC Power Supply

- ▶ By using power supplies with PFC function, the power factor is promoted and the power consumption of the screen is reduced, so the electric charge decreases and will save energy, which is also environmentally friendly.



— 5V (WH-200W-05)
— 4.2V (WH-200W-4.2)

Less Post-Maintenance Cost

- ▶ LED displays usually have a very low failure rate. Even there is some failure, only modules or the power supply need to be repaired or replaced. So the post-maintenance cost is very low. Besides, the customer will be provided with extra spare parts.

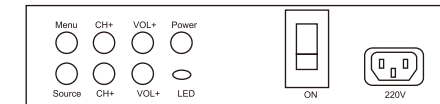
The LED Display needs Less Room

- ▶ Compared to rear projectors, LED screens need less space for maintenance on the back: A LED screen only requires 80cm maintenance corridor space on its back, which has very little impact on the fixed structure of the building.

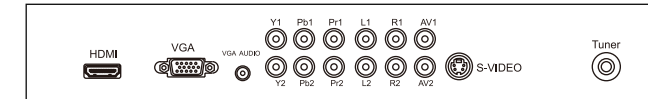


Rear Maintenance on UD View LED TV Display

Video Processor Control Panel

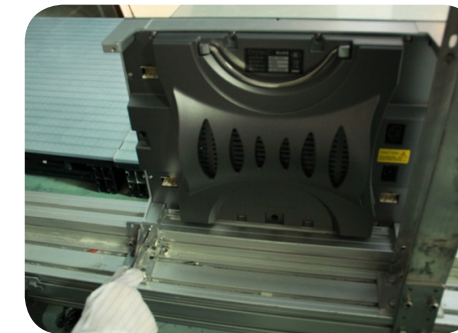


Video Processor Interface Panel

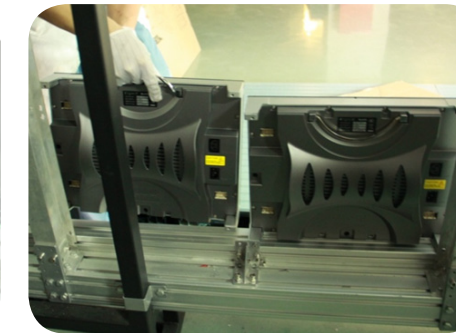


Easy Installation Process

- ▶ The UD View LED TV Screen installation process is very easy and can be done in just 8 steps using just one tool to finish the complete screen. Below you can find the steps on how this is easily done in no time.



Step 1



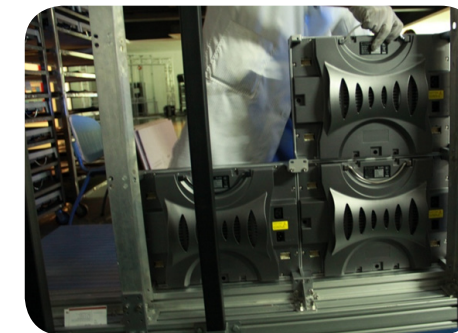
Step 2



Step 3



Step 4



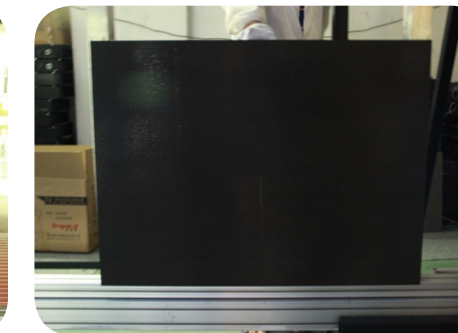
Step 5



Step 6



Step 7



Step 8



Project Examples LED TV



UD LED TV 2.5 Colour & Pixel Calibration at Security Center 25sqm



Germany 3D LED TV 2.5 Splicing Test 25sqm



LED TV 2.5 at Card Expo USA 12sqm



UD TV 2.5 Series at Airport 28sqm



Indoor LED TV 2.5 at Conference Room 15sqm



UD TV 2.5 Series at Airport 28sqm

Latest Projects Mexico & Latin America



Cancun - Plaza de Torros Outdoor LED Screen P16 45sqm



Villahermosa - La Condesa Indoor LED Screen P7.62 12sqm



Mexico City - World Trade Center Outdoor LED Screen P16 28sqm



Nicargua - National Footbal Stadium Managua Outdoor LED Screen P16 48sqm



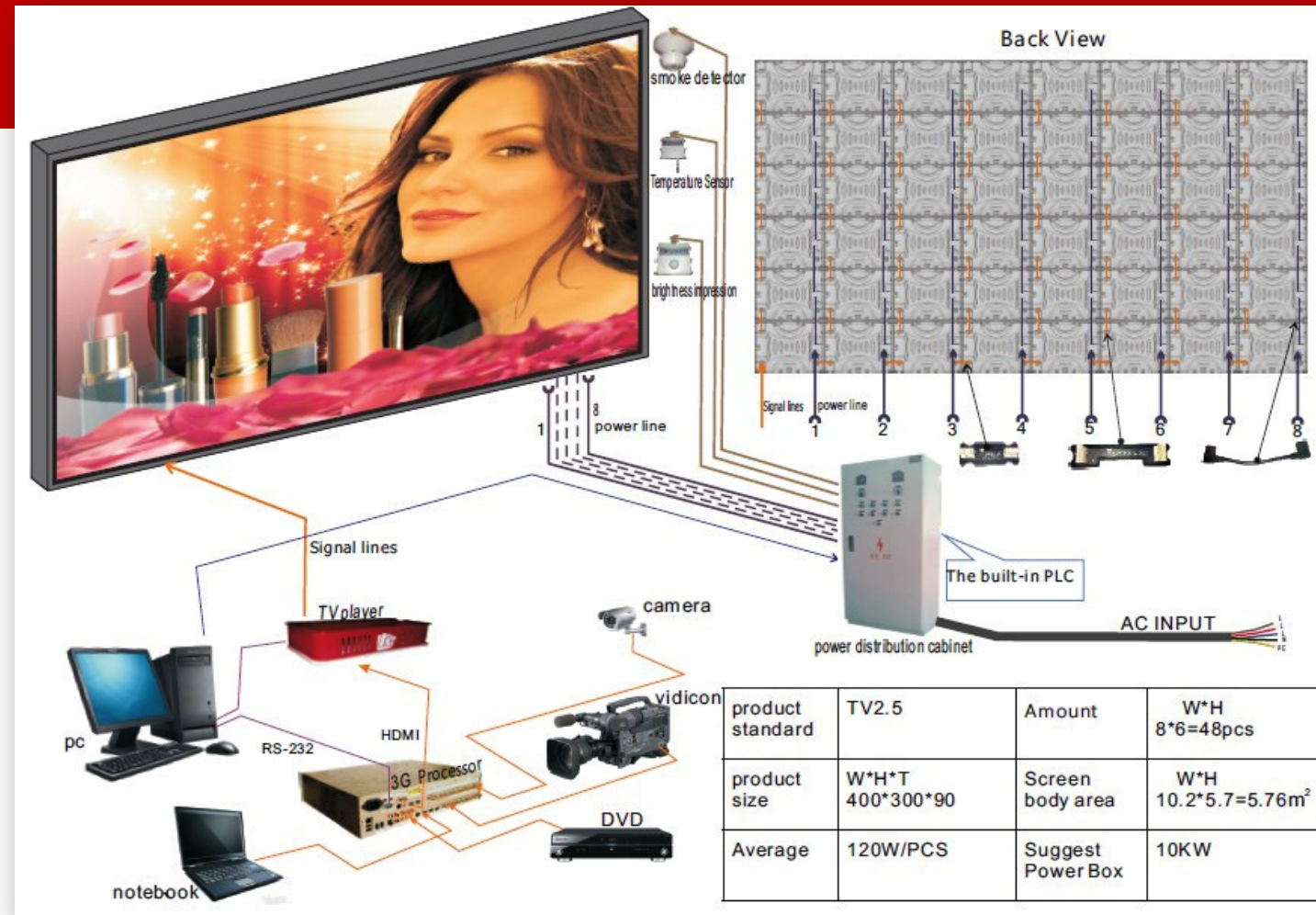
Hermosillo Sonora - Publicity Billboard Outdoor LED Screen P16 45sqm



Mexico City - Park Plaza Santa Fe Outdoor LED Screen P16 85sqm



System Schema



Technical Specifications

Items	Indoor LED TV 1.9	Indoor LED TV 2.5	Indoor LED TV 3	Indoor LED TV 4
Basic Parameters				
LED Configuration	SMD 3 in 1	SMD 3 in 1	SMD 3 in 1	SMD 3 in 1
Pitch (mm)	1.923 mm	2.5 mm	3.125 mm	4 mm
Cabinet Resolution (W*H)	208 x 156	160 x 120	128 x 96	50 x 75
Cabinet Size (mm)	400(w) x 300(h) x 90(d) 16in(w) x 12in(h) x 3.5in(d)	400(w) x 150(h) x 110(d) 16in(w) x 12in(h) x 4in(d)	400(w) x 150(h) x 110(d) 16in(w) x 12in(h) x 4in(d)	200(w) x 150(h) x 110(d) 16in(w) x 12in(h) x 4in(d)
Cabinet Weight	4.7Kg/Cabinet & 40Kg/m ² 10.4lbs/cabinet & 88lbs/m ²	4.7Kg/Cabinet & 40Kg/m ² 10.4lbs/cabinet & 88lbs/m ²	4.7Kg/Cabinet & 40Kg/m ² 10.4lbs/cabinet & 88lbs/m ²	4.7Kg/Cabinet & 40Kg/m ² 10.4lbs/cabinet & 88lbs/m ²
Pixel Density	32448 pixels/cabinet 270400 Pixels/m ²	19200 pixels/cabinet 160000 Pixels/m ²	32448 pixels/cabinet 270400 Pixels/m ²	19200 pixels/cabinet 160000 Pixels/m ²
Cabinet Flatness	≤ 0.2mm (0.007in)	≤ 0.2mm (0.007in)	≤ 0.2mm (0.007in)	≤ 0.2mm (0.007in)
Optical Parameters				
Single Dot Brightness Calibration	Yes	Yes	Yes	Yes
Single Dot Colour Calibration	Yes	Yes	Yes	Yes
White Balance after Adjustment	≥ 1,200 cd/m ²	≥ 1,200 cd/m ²	≥ 1,200 cd/m ²	≥ 1,200 cd/m ²
Colour Temperature	3200K ~ 9300K Adjustable	3200K ~ 9300K Adjustable	3200K ~ 9300K Adjustable	3200K ~ 9300K Adjustable
Horizontal Viewing Angle (°)	160 °	160 °	160 °	160 °
Vertical Viewing Angle (°)	160 °	160 °	160 °	160 °
Brightness Uniformity	≥ 97%	≥ 97%	≥ 97%	≥ 97%
Colour Uniformity	Within ±0.003Cx,Cy	Within ±0.003Cx,Cy	Within ±0.003Cx,Cy	Within ±0.003Cx,Cy
Contrast	3000:1	3000:1	3000:1	3000:1
Electrical Parameters				
Peak Power Consumption	120W/Cabinet / 1000W/m ²	120W/Cabinet / 1000W/m ²	120W/Cabinet / 1000W/m ²	120W/Cabinet / 1000W/m ²
Average Power Consumption	40W/Cabinet / 330W/m ²	40W/Cabinet / 330W/m ²	40W/Cabinet / 330W/m ²	40W/Cabinet / 330W/m ²
Working Voltage	AC85~264V (50-60Hz)	AC85~264V (50-60Hz)	AC85~264V (50-60Hz)	AC85~264V (50-60Hz)
Processing				
Drive Mode	Constant Current Mode	Constant Current Mode	Constant Current Mode	Constant Current Mode
Reframe Rate	60Hz	60Hz	60Hz	50Hz & 60Hz
Refresh Rate	2400Hz	2400Hz	2400Hz	2400Hz
Operational Parameters				
Screen Lifetime	≥ 100,000 hours	≥ 100,000 hours	≥ 100,000 hours	≥ 100,000 hours
Operation Temperature	-10°C ~ +45°C +14°F ~ +113°F	-10°C ~ +45°C +14°F ~ +113°F	-10°C ~ +45°C +14°F ~ +113°F	-10°C ~ +45°C +14°F ~ +113°F
Storage Temperature	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C
Operation Humidity (RH)	10 ~ 80% RH	10 ~ 80% RH	10 ~ 80% RH	10 ~ 80% RH
Storage Humidity (RH)	10 ~ 85% RH	10 ~ 85% RH	10 ~ 85% RH	10 ~ 85% RH
Warranty				
Standard Program	3 Years	3 Years	3 Years	3 Years
Extended Program	5 Years	5 Years	5 Years	5 Years

