NOVA media 諾亞媒體

NOVA media 諾亞媒體

NOVA MEDIA 官網

Digital Signage Application Intergration Services

諾亞媒體股份有限公司

A 105台北市松山區南京東路四段1號7樓

T 02-2718-2099　統編：28469434

NOVA MEDIA CO.,LTD 7F, No.1, Sec.4, Nangjing S.Rd., Taipei, Taiwan

產品諮詢專線：02-2718-2099 轉150

NVF SERIES

Fine Pitch LED Product Introduction

Global Audio-visual Culture Pioneer

SMART FINE PITCH LED VIDEO WALL PANEL

NVF Series NVF012/NVF014/NVF015/NVF018/NVF025

- Real seamless assembling and easy connection
- User Friendly brightness adjustment
- Low blue ray emission, reducing eye fatigue under long time exposure.
- High contrast ratio
- Accurate color rendering; uniform brightness
- Broadcasting level grayscale processing
- Super high refresh rate
- Wider color gamut
- Pixel by pixel brightness and color calibration technology
- Low power consumption, energy saving, environment friendly
- Low maintenance cost
- Long lifespan
- Slim design
- Nanosecond response time
- High reliable redundancy technology

NVF PRODUCT INTRODUCTION

Brief Introduction

NVF Series product is NOVA newly released fine pixel pitch LED Panels, which supports free assembly and front access. Panel size is 27.3 inch with 16:9 aspect ratio.

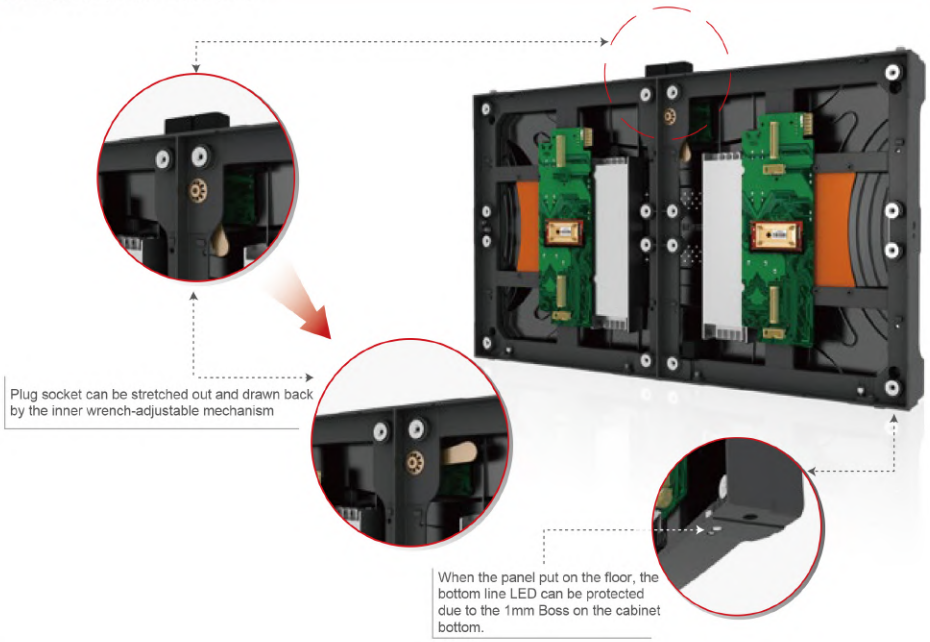
NVF PRODUCT FEATURES

- Patented front access design, makes the front maintenance easy and convenient.
- Patented connection design for power and data, no external connector or cables between cabinets
- Design with bright line/dark line mechanical adjustment for cabinets
- With LED Lamp protection design on the bottom of the cabinet
- “Non-Ghosting” circuit design, eliminating the ghosting causing between high contrasting content.
- With single pixel brightness, color calibration function. The calibration data is saved in the module, optimal uniformity can be guaranteed even after module replacement.
- Calibration data can be read-back automatically after spare module was replaced, no need to update data by operator additionally.
- Power redundancy and signal redundancy design, system reliability can be guaranteed.
- Adopt PSU with PFC function, to minimize the interference from LED screen supply harmonic to the power supply system.

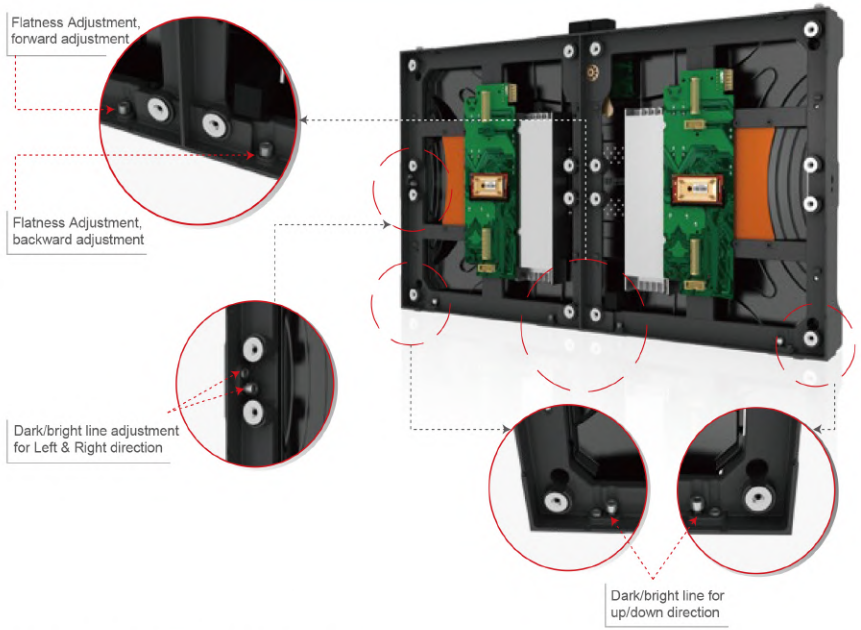
INSTALLATION & ADJUSTMENT

Parts Details

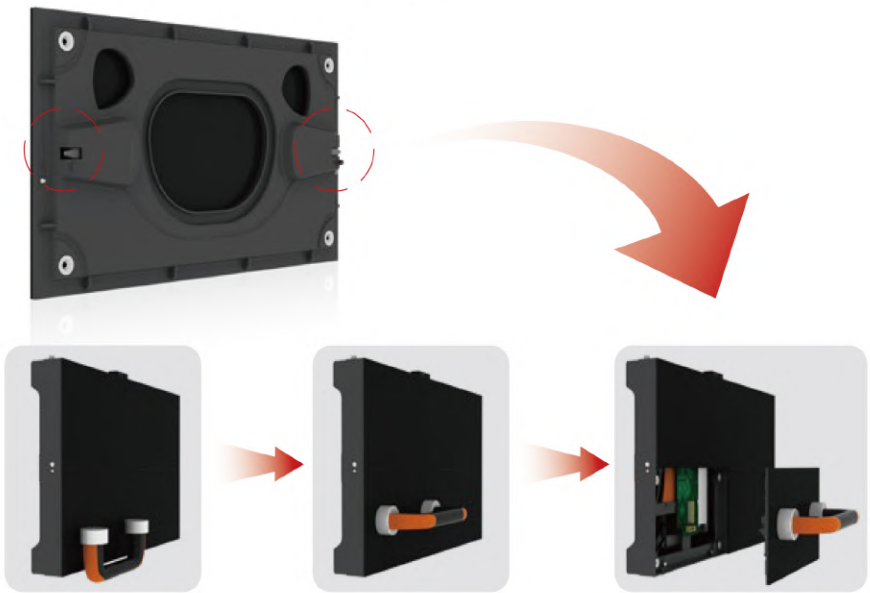
Extensional Details



Adjust Mechanism Details



Front Installation and Front Service



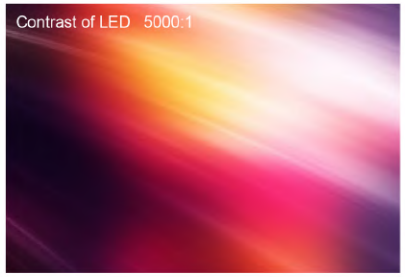
PROMINENT FEATURES

Friendly Brightness Adjustment

- Equipped with external light sensor, the screen brightness can be auto-adjusted according to the ambient light, to be always in a suitable level.

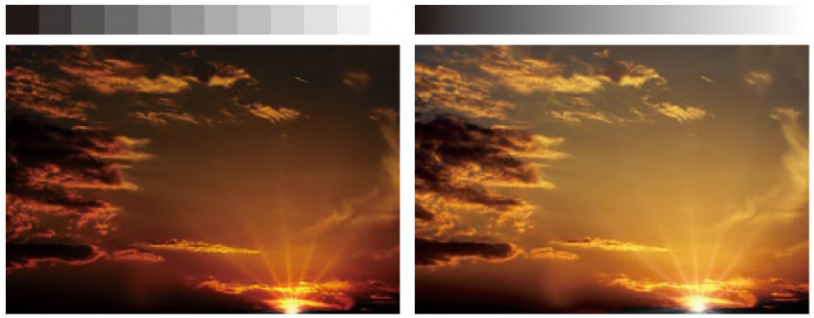
High Contrast Ratio

- Adopt high quality black face LED lamp, increase the emitting brightness while lower the brightness of black frame.
- Black mask processing technology will also increase the contrast ratio.



Broadcasting Grayscale Processing

- Perfect grayscale performance in the area of low brightness. It can display more screen layering and color degrees when compared to previous products.
- No detail loss.



Suitable for Close Look

- The fine pixel pitch LED screen with high LED density, ideal for close look, but won't cause grainy effect.

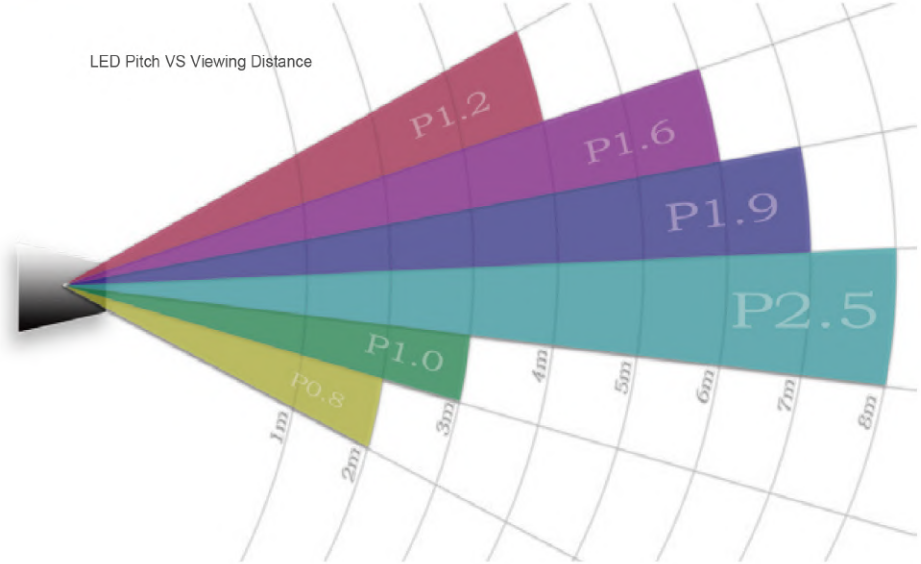


Image Sharpening

- Image sharpening is able to create the appearance of a more pronounced edge, and this effect makes the image seem clearer, seemingly adding details. This is an image processing technology based on differential Algorithm. Sharpening can make the image seem clearer, but it will add the noise as well.

Image Enhancement Processing

- It' s a process of enhancing the visual quality of images due to non-ideal image acquisition process. It may cause distortion of the image.
  To emphasize the image features in whole or in part according to the application.
  To make the dim image brighter.
  To better make the subject stand out .
  To improve the interpretability or perception of information in images for human viewers.

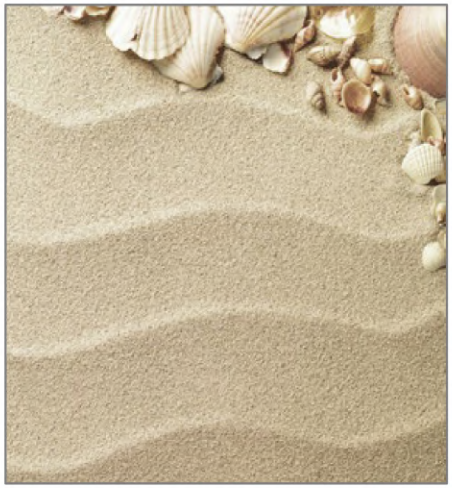


Image Denoising Processing

- In dark environment, sometimes it may have to enlarge the image, and then it will cause some unnecessary noise. It's necessary for the image processing system to remove noise from the image.

Rapid Dynamic Display

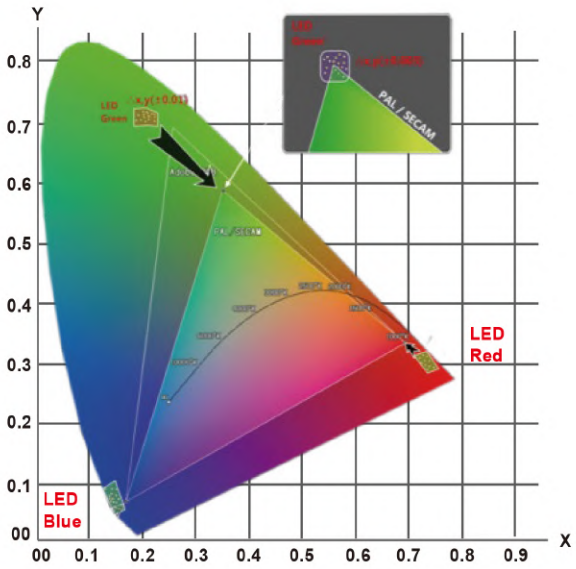
- LED features Nanosecond response time, the internal between ON and OFF is extremely short. It could rapidly response without Visual Staying Phenomenon, very clear. It has big advantage for those applications requiring super good dynamic rendering effect.
  The self emitting mode for LED needs no response time, no visual staying phenomenon happened even when people observe the rapid movement objects.

Advanced Image Processing Technology

- Features: Strong video processing and calibration database arithmetic ability; High resolution video image output ability; Broadcasting video processing; 10bit grayscale processing; 16bit color processing which can display 281 trillion colors; Self-adapting 50Hz or 60Hz video source; Frame by frame scanning; Enhanced image; Optimal image rendering ability, pixel by pixel rendering, sharp and clear.

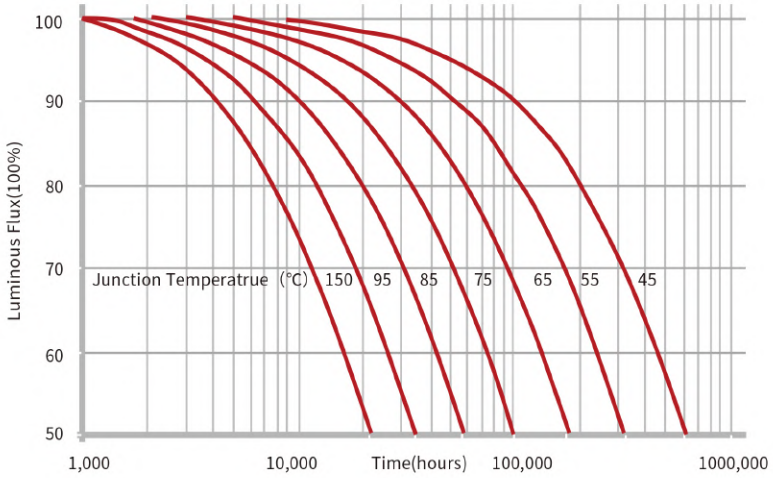
Brightness & Color Pixel by Pixel Calibration

- Professional pixel by pixel color and brightness calibration but not whole screen calibration, and the most accurate and best effect can be guaranteed. Color uniformity （X, Y coordinate）<±0.003(6500K white balance).
- To calibrate discrete distribution LEDs of same beam and same batch, so as to make the LED screen video match PAL and NTSC format, truly rendering the color from the nature world, and make it pleasing to human eyes.



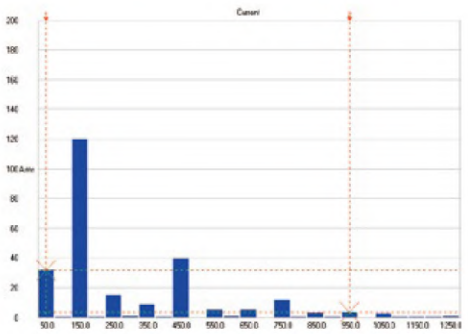
Super Long Lifespan

- Without considering of power and driver failure, the LED life behaves as its light decay! As it ages, the light output slowly and continuously decreases as the LED lamp losses efficiency. The light emitting diode has reached the end of its life when its light output reaches 50% of the rated luminous output, not when it reaches zero.
- The typical lifespan for LED is 100,000Hrs. But environmental Factors affect its lifespan. Although die temperature plays the most critical role in LED lifespan, numerous other variables also play a part. Ambient temperature is always a factor, primarily in applications exposed to fluctuating environmental factors. High ambient temperatures and humidity can potentially lead to a reduction in lifespan.

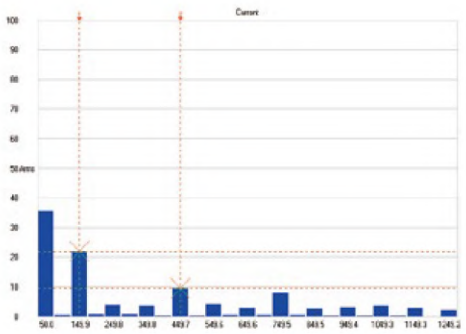


Energy Saving

The newly released broadcasting level NVF series products, which specially developed for TV Studio, is of lower power consumption and less heat generation, more energy saving.
When compared to PDP display, NOVA NVF screen is more environmental friendly.



Conventional power source



With PFC power source

Low Maintenance Cost

The failure rate for LED Video Wall is very low. Parts can be replaced or repaired. The after sales maintenance cost is low.

Triple-frequency harmonics for PSU with PFC

Power redundancy and signal redundancy design, system reliability can be guaranteed.

NVF APPLICATION SOLUTION

TV STUDIO

CONTROL CENTER

FINANCIAL

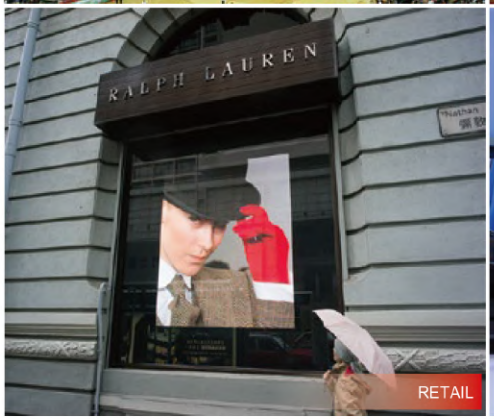
CORPORATE

INFORMATION

CONFERENCE CENTERS

SPORTS

HOUSE OF WORSHIP



RETAIL

RENTAL AND STAGING

FLEXIBLE ASSEMBLING

SPECIFICATIONS

Item		NVF011	NVF012	NVF015	NVF018	NVF025	NVF040
Module Configuration	Pixel Configuration	SMD	SMD	SMD	SMD	SMD	SMD
	Pitch(mm)	1.18	1.26	1.575	1.89	2.5	4
	Module Resolution(W*H)	256x144	240x135	192x108	160x90	120x68	75x42
	Module Size(mm)	302.4x170.1	302.4x170.1	302.4x170.1	302.4x170.1	302.4x170.1	302.4x170.1
	Module Weight(Kg)	0.52	0.52	0.52	0.52	0.52	0.52
	Module Composition(WxH)	2x2	2x2	2x2	2x2	2x2	2x2
Cabinet	Cabinet Resolution	512x288	480x270	384x216	320x180	240x136	150x84
	Cabinet Dimension (WxHxD, mm)	604.8x340.2x72.5					
	Unit Area(m^2)	0.2058	0.2058	0.2058	0.2058	0.2058	0.2058
	Cabinet Weight(Kg/m^2)	26	26	26	26	26	26
	Pixel Density(pixel/m^2)	718184	629882	403124	279947	158637	61256
	Surface Flatness (mm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Optical Parameters	Brightness Calibration	Yes	Yes	Yes	Yes	Yes	Yes
	Color Calibration	Yes	Yes	Yes	Yes	Yes	Yes
	Brightness(nits) (after calibration)	600-800	600-800	600-800	600-800	600-800	600-800
	Color Temperature(K)	3000-10000 adjustable					
	Horizontal Viewing Angle(°)	160	160	160	160	160	160
	Vertical Viewing Angle(°)	140	140	140	140	140	140
	Deviation of LED Luminance Center(after calibration)	<3%	<3%	<3%	<3%	<3%	<3%
	Brightness Uniformity	≥97%	≥97%	≥97%	≥97%	≥97%	≥97%
	Chromaticity Uniformity (after correction)	±0.003Cx,Cy within					
	Contrast Ratio	7000:1	7000:1	7000:1	7000:1	3000:1	3000:1
Optical Paramter	Max Power Consumption(W/m^2)	650	620	600	600	600	600
	Average Power Consumption(W/m^2)	217	208	200	200	200	200
	Power Supply	AC100~240V(50-60Hz)					
Processing Mode	Drive Mode	Constant Current Drive					
	Frame Rate(Hz)	50&60	50&60	50&60	50&60	50&60	50&60
	Fresh Rate(Hz)	3000	3000	3000	3000	3000	3000
Operational Parameter	Lifetime(hrs)	50,000	50,000	50,000	50,000	50,000	50,000
	Operation Temperature (℃)	-10~40	-10~40	-10~40	-10~40	-10~40	-10~40
	Storage Temperature(℃)	-20~60	-20~60	-20~60	-20~60	-20~60	-20~60
	Operation Humidity(RH)	10--80% no condensation					
	Storage Humidity(RH)	10--85% no condensation					

Remark: Above data is subject to change without previous notice

Starting Sept. 2020, NVF015, NVF012 and NVF011 would feature also 4 in 1 encapsulated SMD LED to be chosen.
It's much more enduring then lonely conventional SMD LED.