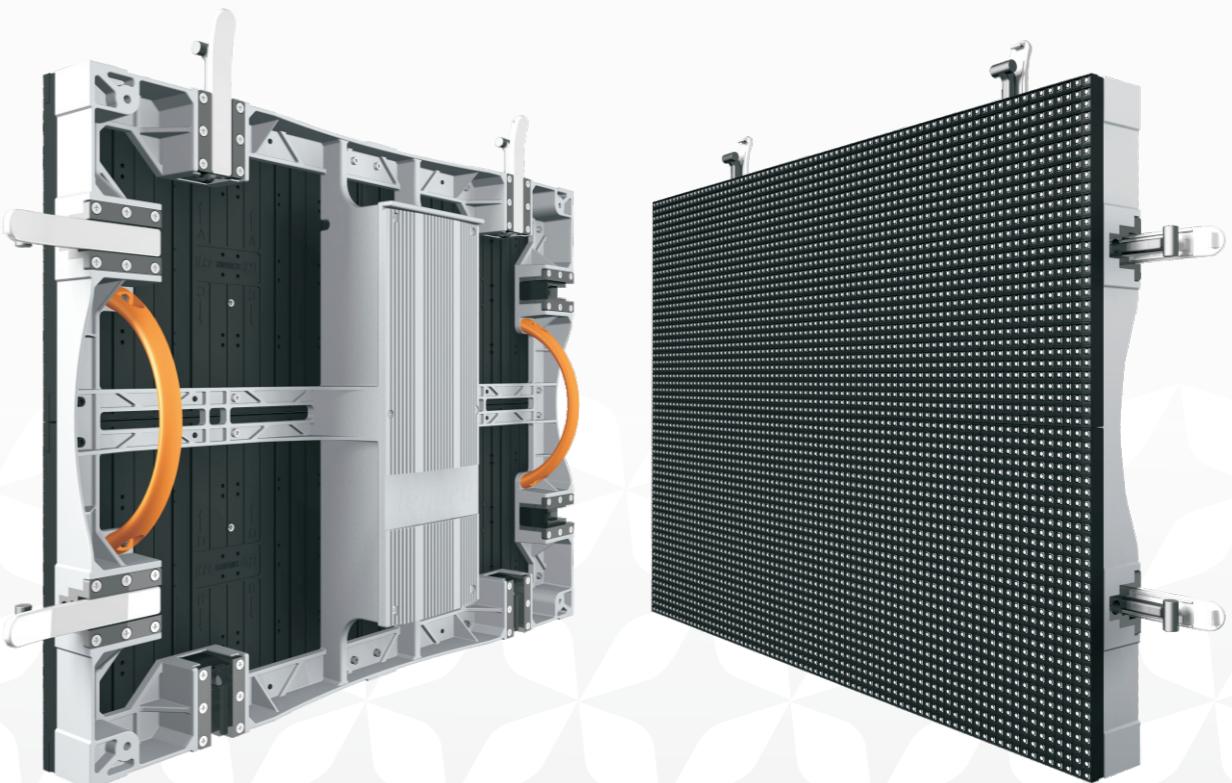
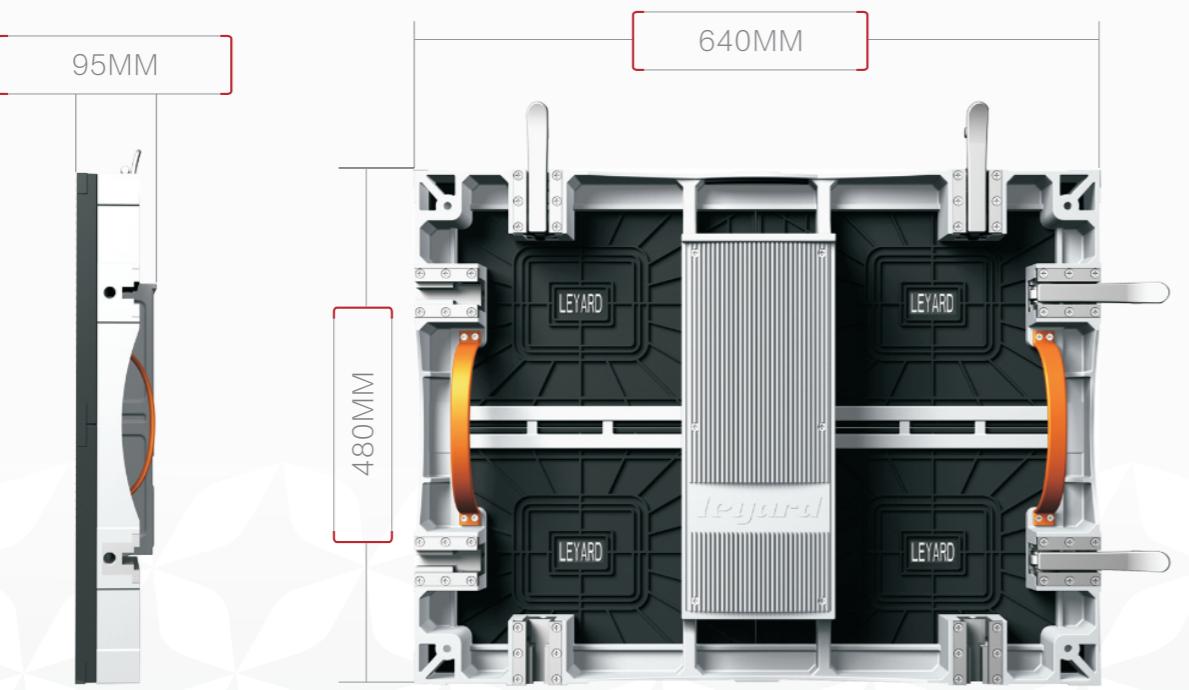


NV Series

New Generation of Intelligent System
For Rental & Fix Installation



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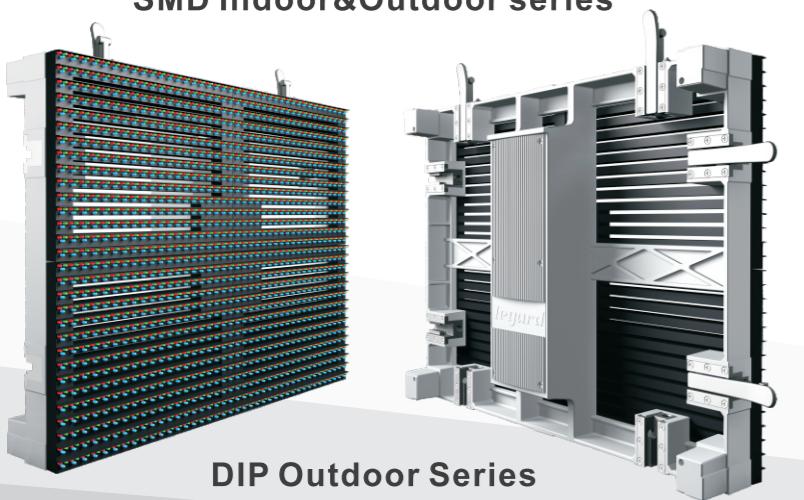
Website:www.leyard.com

LEYARD OPTOELECTRONIC Co.,LTD

Summary



SMD Indoor&Outdoor series



DIP Outdoor Series

NV Series products are newly released LED Panels from Leyard. Leyard Team developed and released such new generation LED Panels base on fully understanding the market demand for LED big screens, as well as integrating the current product range and new product development roadmap. It can be used for outdoor rental and fix installation. With the features of weather-resistance, flexible and easy installation, wide application, thin, slim and stylist look, high technology standards.

Model Rules

NV is as main part of the Model Number

S – Outdoor SMD LED

G- LEDs made in China

N- Nichia LED Lamps

r- Rental Type

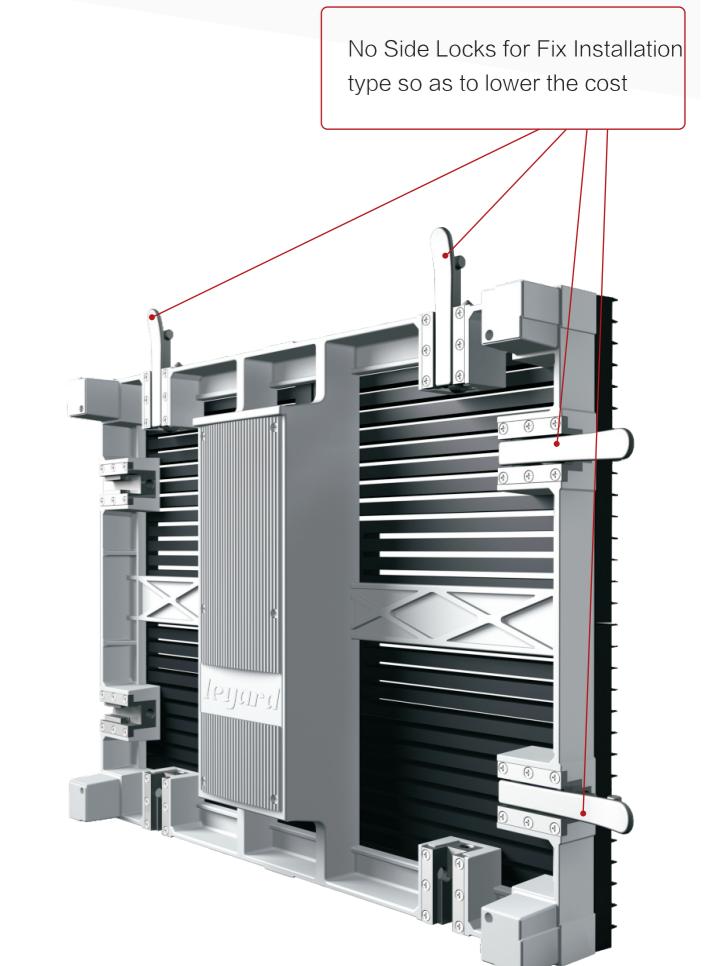
NV Series Model List

		Fixed Installation	Rental
Outdoor	DIP LED	NV16A,(MESH) NV16B NV20A,(MESH) NV20B NV25A,(MESH) NV25B	rNV16A, rNV16B rNV20A, rNV20B rNV25A, rNV25B
	SMD LED	NV6S,NV8S,NV10S,NV16S	rNV6S,rNV8S,rNV10S,rNV16S
Indoor	SMD	Nv6, NV8	rNV6, rNV8

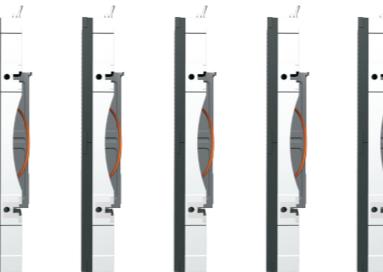
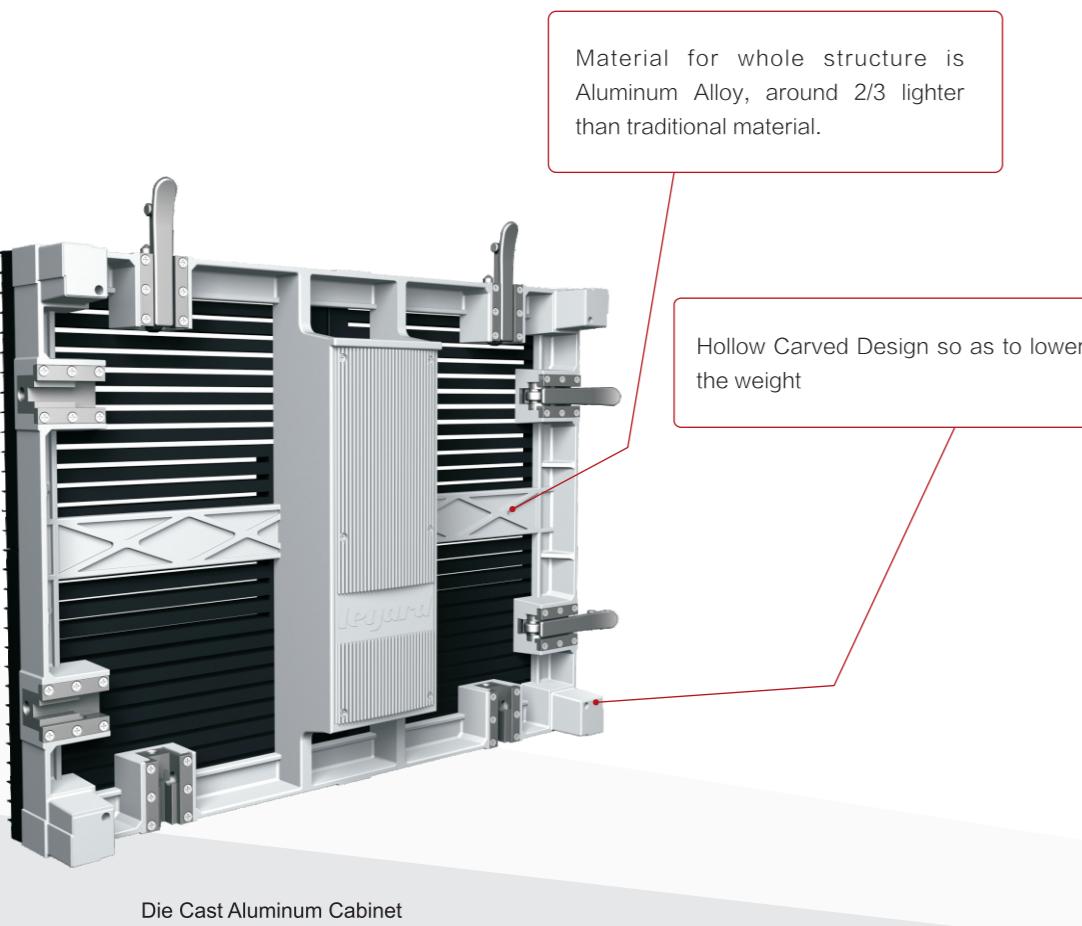
P10, P16 and P20 can be front maintenance.

Difference between Fixed Installation Type and Rental Type LED Panels

The difference lies in the side locks: The rental type is equipped with side locks while fix installation type not.



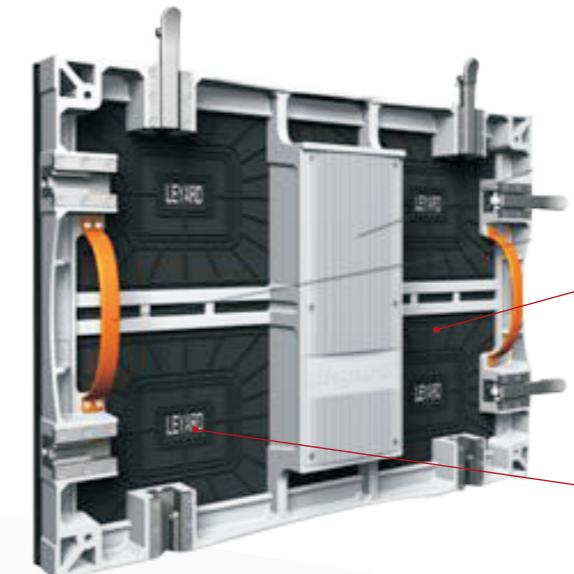
Technical Features



Light Weight, Thin and Slim, Easy to Carry and Install

Optimal Heat Dissipation

Natural heat dissipation for the whole LED Panel. The main structure is constructed by Aluminum which has high coefficient of heat conductivity. The heat dissipated from the Power Supply Units can be conducted into the air with high efficiency, so no extra fans needed for cooling. At the same time, with such heat dissipation way, **no air-conditioning system needed** for cooling system, thus highly decrease the engineering cost, avoid unnecessary waste.



The PSU is attached to the back cover which is made of special material (equal to heat sink), can conduct the heat dissipated from the PSU.

The whole modules is exposed to the air, thus conduct the heat to the air directly.

PSU with PFC function

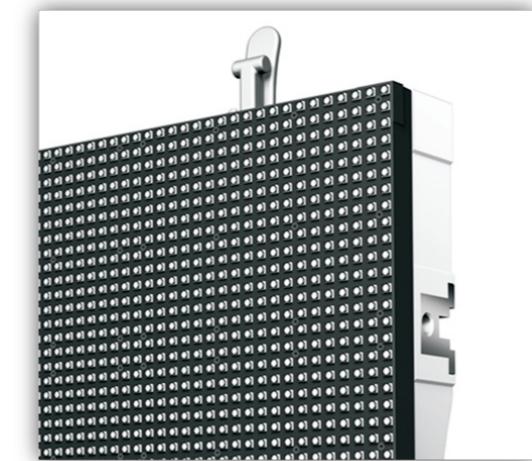


We adopts compact, high power efficiency and high power conversion efficiency Power Supply Units to the NV series products, so as to decrease the weight and power consumption for the LED screen, and also make the LED Panel looks more stylish.

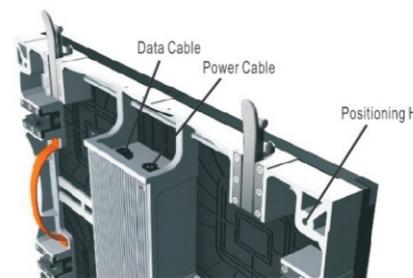
Silent Design

The LED panel is equipped with PSU but no fans, so no noise occurred when running.

Wide Application



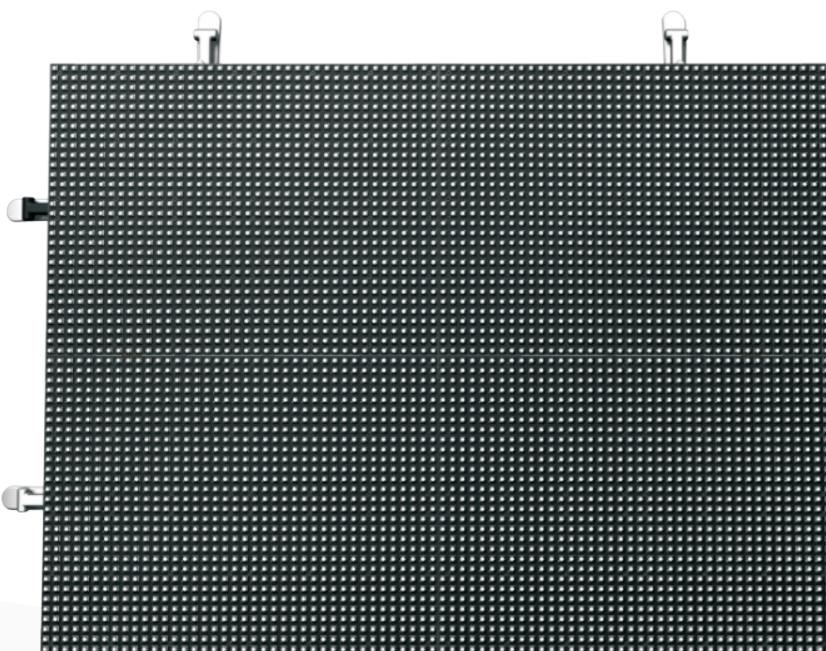
The LED Module can be replaced easily. The screen can be for fix installation or for rental. P10, P16 and P20 can be front maintenance. The LED screen can be used indoor and outdoor with weather resistance. The weight and thickness is much lower, convenient for transport and installation.



Hight Protection Level

Integrated Design for the cabinet, protection level can be IP65 front and IP65 Back.

High Refresh Rate



NV Series adopts MBI 5035 Driving IC. High refresh rate and low power consumption.

Indoor Solution		
Module	NV6	NV8
Pixel Configuration	3 in 1 LED	3 in 1 LED
Pixel Configuration(mm)	6. 15385	8
Module Resolution(WxH)	52 x 39	40 x 30
Module Dimensions(mm)	320 (W) x240 (H) x15 (D)	320 (W) x240 (H) x15 (D)
Module Weight(kg)	0.75	0.75
Max. Power Consumption per Module(W)	21	21
Module Qty per Cabinet(WxH)	2 x 2	2 x 2
Cabinet Physical Resolution(WxH)	104 x 78	80 x 60
Cabinet Dimensions(mm)	640 (W) x 480 (H) x 95 (D)	640 (W) x 480 (H) x 95 (D)
Cabinet Surface Area(m ²)	0.3072	0.3072
Weight(kg/Cabinet; kg/m ²)	12 ; 39	12 ; 39
Pixel Density(Pixels/m ²)	26,406	15,625
Cabinet Flatness(mm)	≤0.5	≤0.5
Single LED Brightness Calibration	Yes	Yes
Single LED Color Calibration	Yes	Yes
Brightness Before Calibration(nits)	≥1800	≥1800
White Balance Brightness(nits)	≥1500(6500K,After Calibration)	≥1500(6500K,After Calibration)
Color Temperature(K)	3,200~9,300 Adjustable	3,200~9,300 Adjustable
Horizontal Viewing Angle(°)	160	160
Vertical Viewing Angle(°)	120	120
Light Centre Distance Deviation	<3%	<3%
Brightness Uniformity	≥97%	≥97%
Color Uniformity	Within ± 0.003Cx,Cy	Within ± 0.003Cx,Cy
Max. Contrast Ratio	3000:1	3000:1
Electrical Specifications	Max Power Consumption (W/Cabinet; W/m ²)	250 ; 833
	Average Power Consumption (W/Cabinet; W/m ²)	83 ; 277
	Power Supply	AC85~264V (50~60Hz)
Processing	Driving Mode	Constant Current Drive
	Frame Rate(Hz)	50&60
	Refresh Rate(Hz)	≥1920
Operation Specification	Lifetime (Half Brightness)	100,000Hrs
	Operating Temperature Range(°C)	0~40
	Storage Temperature Range(°C)	-10~50
	Operating Humidity(RH)	10 ~ 80% (No condensation)
	Storage Humidity(RH)	10~85% (No condensation)

Remark: This data sheet contains tentative information, will be changed without notice.

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Outdoor Solution					
	Model	NV6S	NV8S	NV10S	NV16S
Module	Pixel Configuration	3 in 1 LED			
	Pixel Configuration (mm)	6. 15385	8	10	16
	Module Resolution (WxH)	52 x 39	40 x 30	32 x 24	20 x 15
	Module Dimensions (mm)	320 (W) x240 (H) x15 (D)	320 (W) x240 (H) x15 (D)	320 (W) x240 (H) x15 (D)	320 (W) x240 (H) x15 (D)
	Module Weight (kg)	0.75	0.75	0.75	0.75
	Max. Power Consumption per Module(W)	21	21	21	21
	Module Qty per Cabinet (WxH)	2 x 2	2 x 2	2 x 2	2 x 2
	Cabinet Physical Resolution (WxH)	104 x 78	80 x 60	64 x 48	40 x 30
	Cabinet Dimensions (mm)	640 (W) x 480 (H) x 95 (D)	640 (W) x 480 (H) x 95 (D)	640 (W) x 480 (H) x 95 (D)	640 (W) x 480 (H) x 105.7 (D)
	Cabinet Surface Area (m ²)	0.3072	0.3072	0.3072	0.3072
Cabinet	Weight (kg/Cabinet; kg/m ²)	12 ; 39	12 ; 39	12 ; 39	13 ; 42
	Pixel Density (Pixels/m ²)	26,406	15,625	10,000	3906
	Protection Level	IP65 (Front & Rear)			
	Cabinet Flatness (mm)	≤0.5	≤0.5	≤0.5	≤0.5
	Single LED Brightness Calibration	Yes	Yes	Yes	Yes
	Single LED Color Calibration	Yes	Yes	Yes	Yes
	Brightness Before Calibration (nits)	≥6500	≥6500	≥6500	≥6500
	White Balance Brightness (nits)	≥5500(6500K,After Calibration)	≥5500(6500K,After Calibration)	≥5500(6500K,After Calibration)	≥5500(6500K,After Calibration)
	Color Temperature (K)	3,200–9,300 Adjustable	3,200–9,300 Adjustable	3,200–9,300 Adjustable	3,200–9,300 Adjustable
	Horizontal Viewing Angle (°)	160	160	160	160
Optical Specifications	Vertical Viewing Angle (°)	120	120	120	120
	Light Centre Distance Deviation	<3%	<3%	<3%	<3%
	Brightness Uniformity	≥97%	≥97%	≥97%	≥97%
	Color Uniformity	Within ± 0.003Cx,Cy	Within ± 0.003Cx,Cy	Within ± 0.003Cx,Cy	Within ± 0.003Cx,Cy
	Max. Contrast Ratio	5000:1	5000:1	5000:1	5000:1
	Max Power Consumption (W/Cabinet;W/m ²)	250 ; 833	250 ; 833	250 ; 833	250 ; 833
	Average Power Consumption (W/Cabinet;W/m ²)	83 ; 277	83 ; 277	83 ; 277	83 ; 277
	Power Supply	AC85~264V (50~60Hz)	AC85~264V (50~60Hz)	AC85~264V (50~60Hz)	AC85~264V (50~60Hz)
	Driving Mode	Constant Current Drive	Constant Current Drive	Constant Current Drive	Constant Current Drive
	Frame Rate (Hz)	50&60	50&60	50&60	50&60
Electrical Specifications	Refresh Rate (Hz)	≥1920	≥1920	≥3840	≥3840
	Lifetime (Half Brightness)	100,000Hrs	100,000Hrs	100,000Hrs	100,000Hrs
	Operating Temperature Range (°C)	-20~40	-20~40	-20~40	-20~40
	Storage Temperature Range (°C)	-35~60	-35~60	-35~60	-35~60
	Operating Humidity (RH)	10 ~ 90% (No condensation)			
	Storage Humidity (RH)	10~95% (No condensation)	10~95% (No condensation)	10~95% (No condensation)	10~95% (No condensation)
Processing					
Operation Specification					

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Outdoor Solution				
	Model	NV16A / B	NV20A / B	NV25A / B
Module	Pixel Configuration	1R1G1B / 2R1G1B	1R1G1B / 2R1G1B	1R1G1B / 2R1G1B
	Pixel Configuration (mm)	16	20	26.67
	Module Resolution (WxH)	20 x 15	16 x 12	12 x 9
	Module Dimensions (mm)	320 (W) x240 (H) x25 (D)	320 (W) x240 (H) x25 (D)	320 (W) x240 (H) x25 (D)
	Module Weight (kg)	0.85	0.85	0.90
	Max. Power Consumption per Module(W)	21	21	21
	Module Qty per Cabinet (WxH)	2 x 2	2 x 2	2 x 2
	Cabinet Physical Resolution (WxH)	40 x 30	32 x 24	24 x 18
	Cabinet Dimensions (mm)	640 (W) x 480 (H) x 95 (D)	640 (W) x 480 (H) x 95 (D)	640 (W) x 480 (H) x 95 (D)
	Cabinet Surface Area (m ²)	0.3072	0.3072	0.3072
Cabinet	Weight (kg/Cabinet; kg/m ²)	13 ; 42	13 ; 42	13.2 ; 43.5
	Pixel Density (Pixels/m ²)	3906	2500	1406
	Protection Level	IP65 (Front & Rear)	IP65 (Front & Rear)	IP65 (Front & Rear)
	Cabinet Flatness (mm)	≤0.5	≤0.5	≤0.5
	Single LED Brightness Calibration	Yes	Yes	Yes
	Single LED Color Calibration	Yes	Yes	Yes
	Brightness Before Calibration (nits)	≥6500	≥6500	≥6500
	White Balance Brightness (nits)	≥5500(6500K,After Calibration)	≥5500(6500K,After Calibration)	≥5500(6500K,After Calibration)
	Color Temperature (K)	3,200–9,300 Adjustable	3,200–9,300 Adjustable	3,200–9,300 Adjustable
	Horizontal Viewing Angle (°)	120	120	120
Optical Specifications	Vertical Viewing Angle (°)	60	60	60
	Light Centre Distance Deviation	<3%	<3%	<3%
	Brightness Uniformity	≥97%	≥97%	≥97%
	Color Uniformity	Within ± 0.003Cx,Cy	Within ± 0.003Cx,Cy	Within ± 0.003Cx,Cy
	Max. Contrast Ratio	6000:1	6000:1	6000:1
	Max Power Consumption (W/Cabinet;W/m ²)	250 ; 833	250 ; 833	250 ; 833
	Average Power Consumption (W/Cabinet;W/m ²)	83 ; 277	83 ; 277	83 ; 277
	Power Supply	AC85~264V (50~60Hz)	AC85~264V (50~60Hz)	AC85~264V (50~60Hz)
	Driving Mode	Constant Current Drive	Constant Current Drive	Constant Current Drive
	Frame Rate (Hz)	50&60	50&60	50&60
Electrical Specifications	Refresh Rate (Hz)	≥3840	≥3840	≥3840
	Lifetime (Half Brightness)	100,000Hrs	100,000Hrs	100,000Hrs
	Operating Temperature Range (°C)	-20~40	-20~40	-20~40
	Storage Temperature Range (°C)	-35~60	-35~60	-35~60
	Operating Humidity (RH)	10 ~ 90% (No condensation)	10 ~ 90% (No condensation)	10 ~ 90% (No condensation)
	Storage Humidity (RH)	10~95% (No condensation)	10~95% (No condensation)	10~95% (No condensation)
Processing				
Operation Specification				

Remark: This data sheet contains tentative information, will be changed without notice.

Outstanding Achievement



Horse Track project, LA
NV16S 140 m²



Sabantui 2013, Tyumen Russia
NV10S 121 m²



Project At Australia
NV8S 22 m²



Project At Kazakhstan
NV8S 22 m²



Tobacco companies celebration, Indonesia
NV8S 120 m²



Project At Australia
NV8S 22 m²



Rental Project at USA
NV8S 28 m²



Rental Project at USA
NV8S 11 m²

Outstanding Achievement



Leyard Showroom

