Narrow Pixel Pitch Direct View LED

LED unit

Model Name		VS-15NP160F	VS-15NP160R	VS-15NP180F	VS-15NP180R	VS-12NP160F	VS-12NP180F	VS-12NP180R	
Pixel pitch			1.50	mm	1.25 mm				
LED type		Direct LED (SMD 3 in 1)							
Average lifetime		100,000 hours in all brightness modes							
Resolution			320 x 36	60 pixels	384 x 432 pixels				
Contrast ratio		16,000:1							
Viewing angle (1/2 gain)	Horizontal	170°							
	Vertical	170°							
Color processing		16-bit							
Frame rate		50/60 Hz							
Front maintenance structure		0		0		0			
Calibrated brightness (typ.)	Bright	800 cd/m ²							
	Normal	500 cd/m ²							
	Eco	190 cd/m ²							
Power consumption (typ.)	Bright	195 W		185 W		215 W	185	W	
	Normal	150 W		135 W		165 W	135	W	
	Eco	105 W		85 W		100 W	85	W	
Voltage range		Supplied by Power unit		AC 100 – 120 V, 220 – 240 V ±10 %, 50/60 Hz ±1 Hz		Supplied by Power unit	AC 100 - 120 V, 220 - 24	0 V ±10 %, 50/60 Hz ±1 Hz	
Power connection		DC input/output x1		AC input/output x1		DC input/output x1	AC input/	output x1	
Power units structure		External		Internal		External	Internal		
Environmental condition		5 - 40 °C, 20 - 80 % RH non-condensing							
Dimensions (W x H x D)		480 x 540 x 90 mm		480 x 540 x 99 mm		480 x 540 x 90 mm	480 x 540 x 99 mm		
Weight		12.6 kg	11.9 kg	13.0 kg	12.4 kg	13.1 kg	13.4 kg	12.6 kg	
Country of origin		Japan							

E FD unit

Power unit (exclusive for VS-15NP160F/R and VS-12NP160F)

Model Name	S-NP15PWR	S-NP15PWR-EX		
Voltage range	AC 100 – 240 V +/-10 %, 50/60 Hz +/-1 Hz			
Output power terminal	Circular type connector			
Redundant power supply	-	0		
Dimensions (W x H x D)	415 x 88	x 565 mm		
Weight	8.1 kg	8.8 kg		
Country of origin	Japan			

Control unit				
Model Name		VC-NP1000		
Voltage range		AC 100 – 240 V +/-10 %, 50/60 Hz +/-1 Hz		
Bower concumption (typ.)	with an OPS	80 W		
Power consumption (typ.)	without OPS	30 W		
External control		LAN (RJ45 x 1)		
Image input		DVI-D (HDCP) x 2		
Resolution		VGA (640 x 480) - WUXGA (1920 x 1200)		
	Horizontal	31.5 - 92 kHz		
Input frequencies	Vertical	49 - 85 Hz		
	Pixel clock	25 - 165 MHz		
Optional input board slot		Intel [®] OPS slot x 1		
Input signal terminals		DVI-D (with HDCP) x 2 Up to 50-meter long DVI cable supported		
Control interface		LAN (RJ45 x 1)		
Dimensions (W x H x D)		415 x 108 x 194 mm		
Weight		3.2 kg		
Country of origin		Japan		

*1 The length varies depending on the quality of the source signals and the cables.

* This product requires special installation to prevent falling or toppling. This should be done by installation specialists.

* Electrostatic discharge may harm the surface of the LED units. To prevent such damage, you should discharge static electricity from your body before you contact with the LED units. * Power cord is not included with main unit and need the designated DC power cord (JC-PC3DC2, 5, 8, 12, 15, 20, 30, or 60) oAC power cord.(JC-PC3AC2, 5 or 8) * Service parts for this product are only stocked for five years after model production is discontinued.

* All information contained herein is subject to change without prior notice.
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Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

for a greener tomorrow

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Model: VS-15NP160 | VS-15NP180 | VS-12NP160 | VS-12NP180

VS-15NP160F/R VS-15NP180F/R VS-12NP160F

VS-12NP180F/R







What is Narrow Pixel Pitch Direct View LED?

By definition, pixel pitch is the distance from the center of an LED element to the center of the next LED element. Our 1.5 mm and 1.25 mm narrow pixel pitch LED (NPP-LED) is an indoorexclusive high-definition LED display with a smaller pixel size and pixel pitch than most conventional indoor/outdoor LED displays. This allows for creating seamless display walls with a wide viewing angle in large installations.

Mitsubishi Electric's NPP-LEDs are specifically engineered to address the needs of demanding command and control room environments by delivering stunning visuals with innovative features and unbeatable durability and reliability.



Seamless

Delivers smooth and consistent graphics without the vertical and horizontal black lines appearing in large-screen video walls.





Image for screen gap such as LCD

Image non-screen gap such as LED

Long Service Life

Mitsubishi Electric's direct-view NPP-LED has a lifetime rating of 100,000 hours till half-brightness. It is designed for continuous 24/7 operations that is often required for mission-critical environments.

Mitsubishi Electric Imaging Technologies

Natural Color Matrix

Wider color reproduction range for brilliant, vivid displays.



2-Dimensional Noise Reduction (2DNR)

Reduces noise from compressed images (i.e., MPEG).

Flexible Installation

Narrow Pixel Pitch Direct View LED screens are available as rear access - and front access models.



Smooth curved design

Space-saving layout

Optimal contrast ratio shows more details, even with darker content.



Active Power Peak Saving Function

LED power consumption changes depending on the content displayed. Active power peak saving function limits the maximum power consumption by detecting the image brightness and automatically optimizing the image.



Redundancv

Signal Redundancy

Power Redundancy

In the unlikely event of a single-unit failure, other panels will still keep displaying images via two way image transmission throughout the system.

Failure of an LED unit keeps subsequent units from displaying images

Single signal Optional power unit provides continuous operation at time of a power module Control unit

Burn-ir

LED brightness gradually diminishes over time as the display gets used. So, when displaying a static image over a long period of time, variations of luminance and chromaticity are caused by the difference in the operating time or age of each pixel.



Anti-Burn-In corrects these display variations and anomalies. As a result, uniformed luminance and chromaticity is preserved longer over the lifetime of the display.





failure.



Dynamic Gamma





TECHNOLOGY







Burn-in compensated

