Specifications

■LED Unit

Model Name		VS-15NP160F	VS-15NP160R	
Pixel pitch		1.50 mm		
LED type		Direct LED (SMD 3 in 1)		
Average lifetime		100,000 hours in all brightness modes		
Resolution		320 x 360 pixels		
Contrast ratio		16,000:1 (typ.)		
Viewing angle (1/2 gain)	Horizontal	170°		
	Vertical	170°		
Color processing		16-bit		
Frame rate		50/60 Hz		
Front maintenance structure		0		
	Bright	800 cd/m ²		
Calibrated brightness (typ.)	Normal	500 cd/m ²		
	Eco	190 cd/m ²		
Power consumption (typ.)	Bright	195 W		
*An LED unit with a power unit	Normal	150 W		
All LLD drift with a power drift	Eco	105 W		
Power Connection		DC input/output x 1		
Environmental condition		5-40 °C, 20-80 % RH non-condensing		
Dimensions (W x H x D)		480 x 540 x 90 mm		
Weight		12.6 kg	11.9 kg	
Country of origin		Japan		

■Power unit

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	8.1 kg
Country of origin	Japan	

Control unit

	- Control cint				
Model Name		VC-NP1000			
Voltage range		AC 100 - 240 V +/-10 %, 50/60 Hz +/-1 Hz			
Power consumption (typ.)	With an OPS	80 W			
	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)			
Input frequencies	Horizontal	31.5 - 92 kHz			
	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 *1			
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

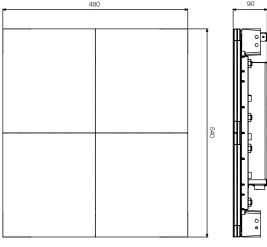
- This product requires special installation to prevent falling or toppling. This should be done by installation specialists.
 Electrostatic discharge may harm the surface of the LED units. To prevent such damage, you should discharge static electricity from your body before you contact with the LED 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). ■ Service parts for this product are only stocked for five years after model production is discontinued.
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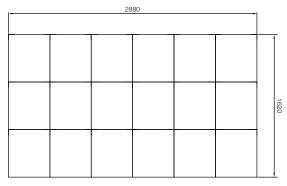
for a greener tomorrow

■LED unit (mm)





■Dimensions for a Full HD resolution video wall (mm)



	Dimensions for a full HD resolution		130" (2880 mm x 1620 mm)
	Required components for a full HD resolution (1920 x 1080 pixels)		x18 (6 wide x 3 high)
	weight*	15NP160F	227 kg
		15NP160R	214 kg

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.

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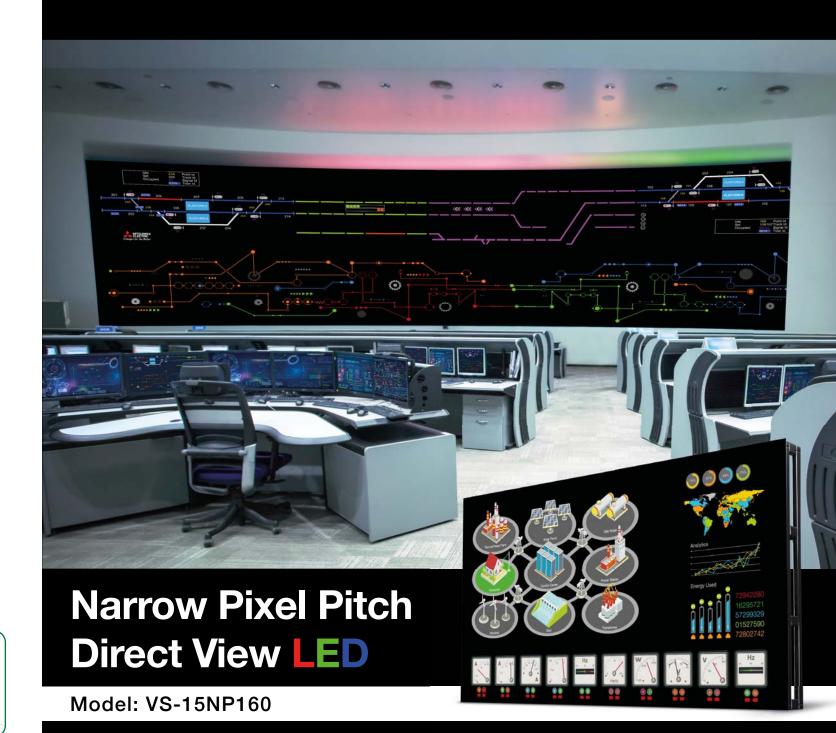
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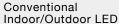




What is Narrow Pixel Pitch Direct View LED?

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 narrow pixel pitch LED (NPP-LED) is an indoor-exclusive 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.





Narrow Pixel Pitch Direct View LED





Pixel pitch comparison (Concept Image) Compared to 30 x 30 mm reference



10 mm pixel pitch

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.

Flexible Installation

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



Smooth curved design

Space-saving layout

Mitsubishi Electric Imaging Technologies



Natural Color Matrix

Wider color reproduction range for brilliant, vivid displays.





Dynamic Gamma

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





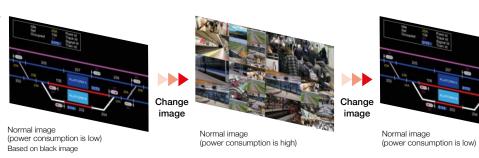
2-Dimensional Noise Reduction (2DNR)

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

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.



Redundancy



Signal 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.

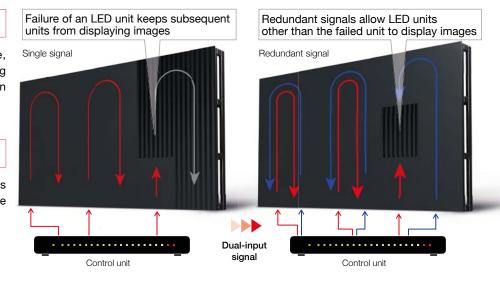
Power Redundancy

Optional power unit provides continuous operation at time of a power module failure.

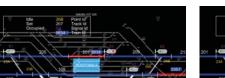
LED brightness gradually diminishes over time as the

display gets used. So, when displaying a static image

chromaticity is preserved longer over the lifetime of



Anti-Burn In



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



TECHNOLOGY

Burn-in compensated

Scalability

the display.

Intel® OPS-Standard slot (control unit)

- Supports OPS standard computers
- Supports OPS 3G-SDI-input board (DP-1SDI-3G)
- Supports OPS HDBaseT input board (VC-LM1HD)





Long-distance signal transmission, up to 100 meters

