

DP-N186CY

Indoor P1.86 Full-Color LED Screen



Description

The DP-N186CY Indoor P1.86 Full-Color LED Screen is a high-definition, fine-pitch indoor LED display module designed for applications requiring clear and vibrant visuals at close viewing distances. With a 1.86 mm pixel pitch and SMD1515 RGB LEDs, the module delivers bright colors, high brightness, and a wide 170° viewing angle. Featuring ≥ 16 -bit grayscale, a high refresh rate of ≥ 3840 Hz (constant current drive), and adjustable color temperature from 1000K to 20000K, it ensures smooth, vivid visuals for indoor environments such as control rooms, exhibition halls, conference rooms, and other high-resolution digital signage applications. The module supports brightness and chromaticity calibration, providing consistent image quality, while its 1/43 scan design ensures stable, efficient operation for long-term indoor use.

Features

- 1.86 mm pixel pitch for fine-detail indoor display
- SMD1515 RGB LEDs with wide 170° per-color viewing angle and brightness ≥ 700 cd/m²
- 16-bit grayscale with high refresh rate ≥ 3840 Hz for smooth, flicker-free visuals
- Adjustable color temperature: 1000K–20000K, brightness range: 0–255
- Reliable indoor operation: -20°C to 60°C, 10%–90% RH non-condensing
- Signal interface: HUB75E (IDC16), operating voltage: DC5V $\pm 10\%$
- Maximum power consumption: 28 W (typical), maximum current: 5.6 A (depending on brightness)
- 1/43 scan method with 16-bit constant-current PWM drive ensures stable, efficient operation
- Supports brightness and chromaticity calibration for consistent, high-quality visuals

Specifications

(T=25° C)

Product Model	Color	IF (mA) TEST	Rd (nm) Typ	Iv (mcd) Typ	Vf (V) Typ	View Angle (deg.)
SMD1515	Red	8	620	22	2.0	110
	Green	5	525	38	3.0	110
	Blue	3	470	5	3.0	110

Pixel Pitch	1.86mm
Pixel Density	289,050dots/m ²
Module Resolution	172 × 86 pixels (Width×Height)
Module Dimensions	320mm × 160mm × 14.2mm (Width×Height×Thickness)
Module Weight	Approx. 400g
Driving Method	16-bit Constant-Current Driver (PWM)
Scanning Method	1/43 Scan
Operating Voltage	DC5V±10%
Maximum Current	5.6A (Typical)①
Maximum Power Consumption	28W (Typical)②
Power Interface	VH4
Signal Interface	HUB75E (IDC16)
Brightness	≥700cd/m ²
Color Temperature	1000K-20000K (Adjustable)
Viewing Angle	170°
Optimal Viewing Distance	≥1.9m
Gray Scale Level	16 Bit
Brightness and Chromaticity Calibration	Support
Refresh Rate	≥3840Hz
Operating Environment	Indoor
Brightness Adjustment Range	0-255 (Adjustable)

Lifespan	100,000 Hours
Operating Temperature	-20°C-60°C
Operating Humidity	10%-90%RH Non-Condensing
Storage Temperature	-40°C- 80°C

Note: ①② Depend on the brightness of the LEDs, for reference only;