

P2.5 Outdoor LED Display

High-brightness outdoor performance for robust fixed installations

The VPLEX P2.5 Outdoor LED Display is a weather-resistant solution engineered for high visibility, durability, and reliable operation in demanding exterior environments. It is suited to signage, façade media, public information, retail frontage, and outdoor communication spaces.



2.5 mm
Pixel Pitch



5000 nits
Brightness



High-refresh
PWM control
Driver IC



3840 Hz
Refresh Rate



IP65 Front
Protection

TECHNICAL SPECIFICATIONS

Installation Environment	Outdoor fixed installation
LED Technology	Outdoor high-brightness 3-in-1 SMD
LED Lamp Package	SMD1415
Preferred LED Lamp Brand	Professional-grade SMD
Driver IC	High-refresh PWM driver
Pixel Pitch	2.5 mm
Module Size	320 × 160 mm
Module Resolution	128 × 64 pixels
Pixel Density	160,000 pixels/m ²
Scan Mode	1/16 scan
Brightness	≥5000 nits adjustable
Viewing Angle	160° / 140°
Refresh Rate	≥3840 Hz
Grayscale	≥14 bit

Contrast Ratio	≥5000:1
Colour Temperature	3200-9300 K adjustable, 6500 K default
Maintenance Access	Front service; rear-service option
Cabinet Material	Die-cast aluminium / coated steel
Maximum Power Consumption	750 W/m ²
Typical Power Consumption	250 W/m ²
AC Input	100-240 V AC, 50/60 Hz
Ingress Protection	IP65 front / IP54 rear
Operating Temperature	-20°C to +50°C
Operating Humidity	10-90% RH, non-condensing
LED Lifetime	≥100,000 hours typical
Control System	Professional LED platform



Applications: Outdoor Signage • Façades • Public Information • Retail Frontage • Event Venues