

CERTIFIEDLED
Premium LED Solutions

Turnkey Outdoor Energy-Saving Billboards



CLARUS Series



20,000nits

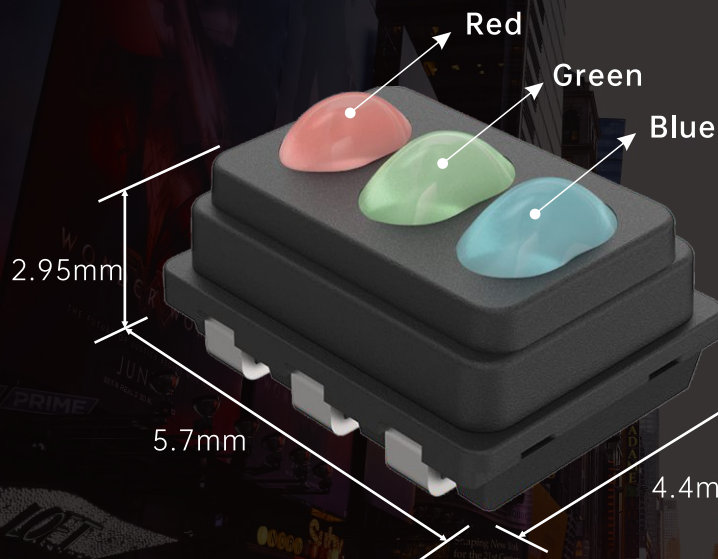


16,000:1



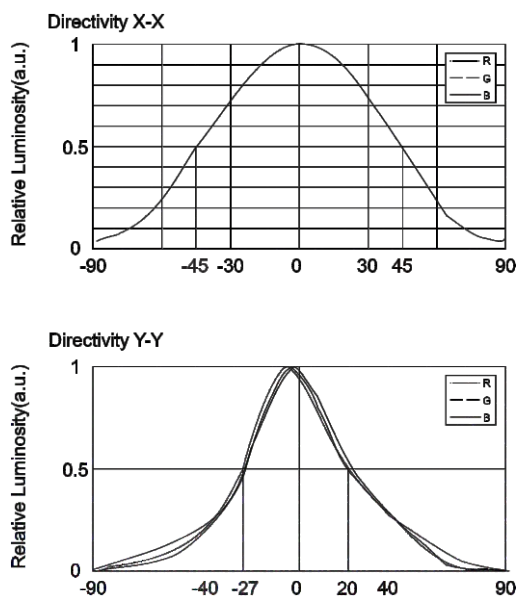
180w/m² Max
54w/m² Ave

What is CLARUS?

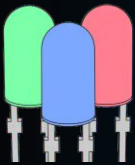


CLARUS is a full-color RGB SMD LED with a lens designed for outdoor displays. It achieves brightness comparable to through-hole LEDs with even greater contrast, while maintaining the lightweight, thinness, and compactness of SMD LEDs. This LED represents a completely new innovation by combining the best features of through-hole and SMD LEDs.

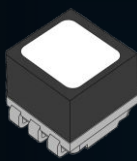
This innovative LED blends the benefits of through-hole and SMD technologies, offering an efficient, low-power display with vivid content. Its controlled light distribution reduces light pollution, while the lightweight design eliminates bulky enclosures, promoting eco-friendly advertising.



CLARUS VS Others



Others



Others



SMD5744

For Cities (vs SMD)

- High Contrast
- Good Color Matching
- Energy Saving
- Light Pollution Control

For Suburbs (vs through-hole)

- Lightweight + Thinner



CLARUS

Video content stays more vivid and clearly visible even in strong sunlight!



20,000nits

High Brightness



16,000:1

High Contrast





60%

Power saving

Exclusive CCES Technology

CertifiedLed developed exclusive CCES (Common Cathode Energy Saving) technology, which powers the RGB chips separately—3.2V for the red chip and 4.2V for green and blue—reducing power consumption by at least 60%.

3.3W Only

In black screen mode



Stable Operation



Low Carbon



Conservation



Energy Saving



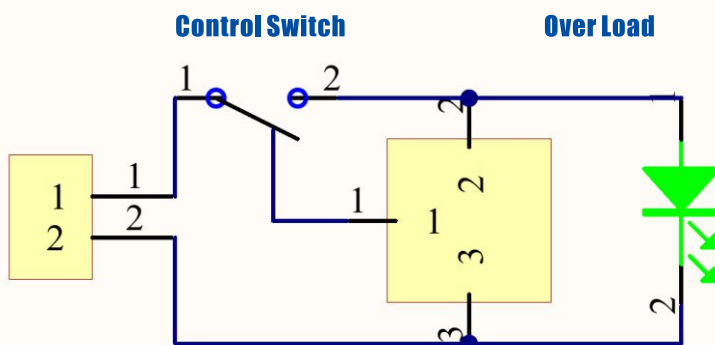
Extremely Light And Thin

Energy-saving Technology

At CertifiedLed, sustainability is at the core of our values, driving everything from green technology R&D to low-carbon certified products. Our commitment to energy savings and environmental improvement reflects this dedication.

High Security

A current fuse is added to cut off the circuit when the current exceeds a certain threshold, protecting the components from overheating or catching fire.



When a short circuit occurs or the temperature rises abnormally, cutting off the circuit will prevent a fire from occurring.

Module Power Input

Over-temperature/Short Circuit Protector

Application



Specifications

Model Name	CLARUS SERIES-P16					
Pixel Pitch (mm)	16					
Pixel Density (dot/m²)	3,906					
LED Sealing Type	SMD5744					
Module Resolution (PX* PX)	30*20					
Module Size (mm * mm)	480*320					
Module Weight (kg)	2.3					
Module Thickness	28mm					
Contrast Ratio	16,000:1					
Horizontal Viewing Angle (Deg)	160°					
Vertical Viewing Angle (Deg)	90°					
Brightness (cd/m²)	5,000	6,000	7,000	8,000	10,000	20,000
Max Power Consumption (W/m²)	180W±3%/m²	214W±3%/m²	237W±3%/m²	266W±3%/m²	334W±3%/m²	717W±3%/m²
Average Power Consumption (W/m²)	54W/m²	64W/m²	71W/m²	80W/m²	100W/m²	215W/m²
Grey Scale (bit)	14-16					
Refresh Rate (Hz)	3,840					
Cabinet Size (mm * mm)	960*640/960*960/960*1,280/1,440*960/1,440*640					
Cabinet Thickness (mm)	94mm					
Cabinet Weight (Kg/m²)	30kg					
Input Voltage (V)	AC100-240V					
Working Temperature (°C)	-40~+55°C					
Working Humidity (RH)	10%~95%RH					
Storage Humidity (RH)	10%~60%RH					
Storage Temperature (°C)	-40~+60°C					
Maintenance Type	Front/Rear					
Installation Type	Front/Rear					
Life Span	>100,000 hours					
Controlling System	Synchronous/Asynchronous					
Ingress Protection	IP68					
Certificates	CE(LVD,EMC), ETL, 3C, CB, FCC, PSE, RoHS					

Notes: The specifications are for reference, actual values may vary.



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