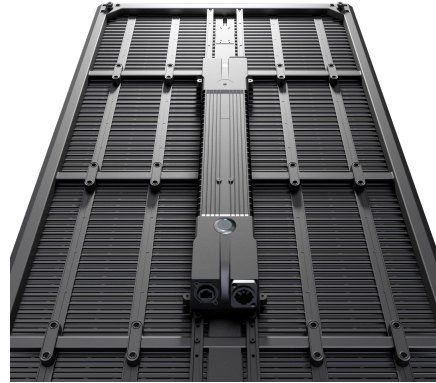




Dazhi Optoelectronic Co., Ltd.

2nd Floor, Bldg. A, Tianyou Industrial Park,
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Tel: +86-755-21055657 Web Site: www.dazhiled.com

Product Specifications



Panther Carbon Fiber Series, Outdoor LED Signboard – Pitch 5.68 mm

Outdoor Solution + Best Image quality

- **Outdoor LED: deepest blackness levels and light absorbing techniques**
- **Independent waterproof panel with super light and thin structure, 11 kg/ M2**
- **45 Degree Angled edge structure for 90 degree curved assembly**
- **Strong Wing Resistance, Transparent design & Direct heat Dissipation**

1. Pixel

LED Type	  1R1G1B, SMD 3 in 1 LED, Gold Wire				
		Code	Wavelength	Brightness	Viewing angle
	Red	1921	622 nm ±5 nm	450 mcd	110° (Hor.) x 110° (Vert.)
68	Pure Green	1921	528 nm ±5 nm	730 mcd	110° (Hor.) x 110° (Vert.)
	Pure Blue	1921	470 nm ±5 nm	105 mcd	110°(Hor.) x 110° (Vert.)
Brightness	5000 nits (cd/ M2) at 6,500K				
Pixels pitch	5.68 mm				
Pixel density	30,976 pixels/ M2				



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2. LED Display

Area of LED Display	100,000 (W) x 5,000 (H) mm = 500 M2
Physical resolution	17,600 (W) x 880 (H) = 15,488,000 pixels
Quantity of panel	200 (W) x 5 H) = 1,000 panels
Viewing angle	110° (Hor.) x 110° (Vert.)
Vision distance	6 - 200 M
Temperature range	Operating: -30° C to 50° C
	Storage: -40° C to 80° C
Ambient Humidity	10% to 95%

3. Mechanical Specifications

Panel dimension	500 (W) x 1,000 (H) x 40 (D) mm
Panel resolution	88 (W) x 178 (H) = 15,488 pixels/ panel
Panel weight	5.5 Kg
Material	Carbon Fiber
Connector	ODU (Germany) & Neutrik (Liechtenstein)
Ingress Protection Rating	IP 65

4. Power Supply

Power consumption	Maximum : 360.00 W/ panel; 720.00 W / M2
	Average: 180.00 W/ panel; 360.00 W / M2
Input Voltage & Current	Input Voltage: AC 100-240V

5. Main Specifications

Drive method	1/ 8 Scan. MBI 5264 Driving IC
Control method	Synchronization
Frame rate	≧ 50/ 60 Hz (20 ms/ 16-66 ms)
Refresh rate	≧ 7,680 Hz/ s (MBI 5264 Driving IC)
Brightness	5,000 nits (cd/ m2); 100 levels adjustable
Color temperature	3,000 – 9000°K adjustable
Life time	> 50,000 hours (half brightness of full white)
Color processing	16 bit/ Color, 65,536 colors
Grey scale processing	14 bit 16,384 levels
Contrast ratio:	5000 : 1
Pixels symmetry	Unity and evenness Pixel & Unit brightness: < 5%



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Effective communication distance	Single mode optical fiber cable < 10 KM
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6. Control System

LED display controller	Nova Star CX40 Pro Controller (Synchronization System) <ul style="list-style-type: none">- 5G network cable transmission: 8bit@60Hz control: 2,592,000 pixels 10bit@60Hz control: 2,073,000 pixels 12bit@60Hz control: 1,728,000 pixels- Max resolution: 4096×2160@60Hz or 8192×1080@60Hz- Max width: 8192 pixels (8192×1080@60Hz)- Max height: 8192 pixels (1080×8192@60Hz)- Frame rates: 23.98/24/25/29.97/30/47.95/48/50/59.94/60/71.93/72/75/100/119.88/ 120/143.86/144/240 Hz- Signal input ports: 2 x 12G SDI + loop, 2 x HDMI 2.0 + loop, 1 x DP 1.2- 8-bit, 10-bit, 12-bit video inputs- Genlock input + loop- Signal output ports: 6 x 5G Ethernet: Capacity per port up to 9 million pixels- 1 x 40G SFP +
PC operation system	WIN2000 & WIN7 & WIN10,
PC display method	1024 x 768