



A BRIGHT OUTLOOK

MINI-LED DISPLAYS BY AMERICAN BRIGHT

As a leading global supplier of LED components, integrated solutions, and design services, American Bright has entered the mini-LED display market to establish itself as a leader in this rapidly expanding arena.

What is a Mini-LED Display?

These Full-Array Backlighting Liquid Crystal Modules (LCM) take the Full-Array Local Dimming a step further by using much smaller LEDs that allow for better contrast, brightness, and color accuracy than traditional LED displays.

Mini-LEDs are illuminating the future of displays with their stunning visuals, power efficiency, and innovative applications.

MAJOR ADVANTAGES OF MINI-LED DISPLAYS

HIGHER BRIGHTNESS LEVEL

SUNLIGHT READABLE (3,000 TO 20,000+ NITS)

	Brightness Level	Sunlight Readable?
Mini-LED Display	3,000 to 20,000+ nits	Yes
Traditional Edge-Lit LCM	200 to 500 nits	No

PRECISE LOCAL DIMMING

- Brighter images for vibrant light scenes.
- Deeper blacks for enhanced contrast and shadow detail.

HIGH CONTRAST RATIO

- Precise Local Dimming: Up to 4096 levels of fine-grained adjustment in each zone.
- Dynamic Brightness Control: Each zone adapts to the on-screen content, delivering deeper blacks and brighter highlights.
- Exceptional Contrast: Experience richer colors and stunning realism with a 1,000,000:1 contrast ratio.

LOW POWER CONSUMPTION

- Smart Dimming: LEDs dim or turn off in dark areas, reducing energy waste.
- Content-Adaptive Efficiency: Up to 50% energy savings depending on displayed content.
- Partial Illumination: Only necessary zones are fully lit, further minimizing power consumption.

LOW TEMPERATURE

- Cool Operation (< 50°C) for enhanced system stability.

LONGEVITY

- Partial illumination reduces power consumption and extends lifespan to over 50,000 hours.

APPLICATIONS

AUTOMOTIVE (CARS, BOATS & MOTORCYCLES)

- Infotainment Screens
- Heads-Up Displays
- Navigation Panels

AUTOMOTIVE FUELING

- Gas Stations
- EV Charging Stations

WEARABLES

- Fitness Trackers

COMMERCIAL USES

- ATMs
- Ticket Machines
- Casino/Arcade Gaming
- Retail Displays

READY FOR A BRIGHTER FUTURE?

 americanbrightled.com

 +1 (909) 628-5050

 sales@americanbrightled.com