

BRIGHTVIEW
TECHNOLOGIES

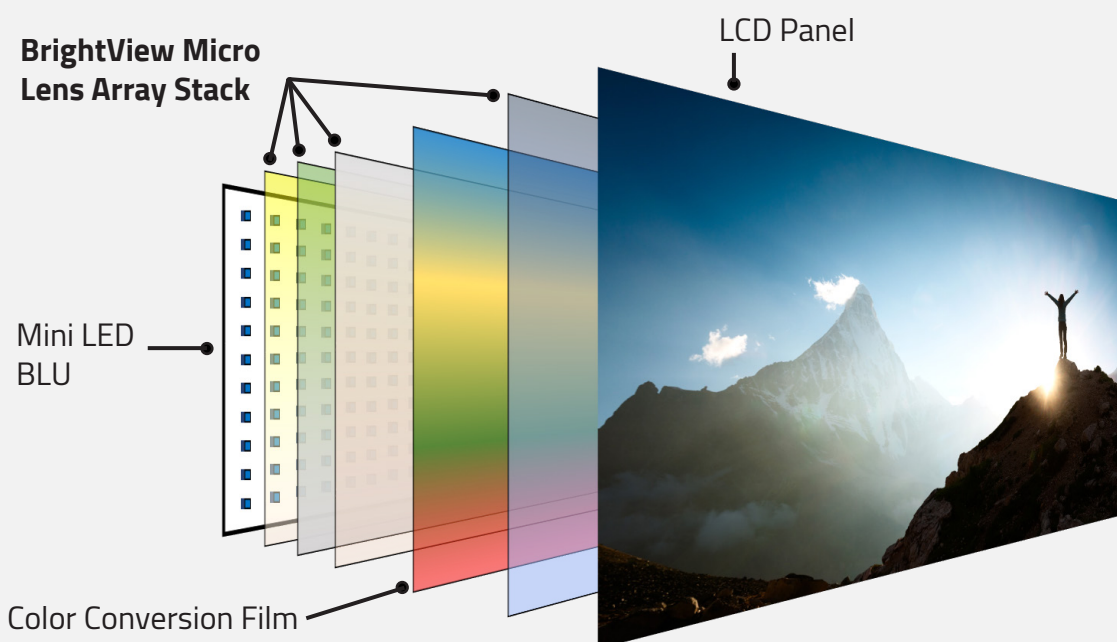
DESIGN BRILLIANCE MEETS
VISUAL INTELLIGENCE™

2D MINI-LED DISPLAYS

SUPERIOR PERFORMANCE WITH MICRO LENS ARRAYS

New 2D mini-LED backlight architectures for LCDs offer improved contrast and brightness performance over other backlight designs. Creating a uniform 2D mini-LED backlight that meets demanding thickness and efficiency requirements is challenging, since the architecture differs from current LCD backlight technology in significant ways. 2D mini-LED backlights are quickly becoming a preferred backlight solution for high dynamic range (HDR) displays in high performance monitors, laptops, tablets, and automotive displays. Featuring full array localized dimming, these displays offer contrast ratios similar to OLED with higher brightness. BrightView's Micro Lens Arrays (MLAs) unlock the potential of 2D mini-LED backlights with custom engineered designs to ensure peak performance. Benefits include:

- Efficient and unmatched brightness
- Excellent light uniformity with color edge correction available
- Thin film stack that maintain optical performance
- Minimal halo artifacts with color conversion films
- Custom film stacks made to your specification



Example film stack in a 2D mini-LED backlight. Configurations may vary.

APPLICATIONS

- Desktop Monitors
- Laptops
- Tablets
- Automotive Displays
- Specialty & Custom Displays



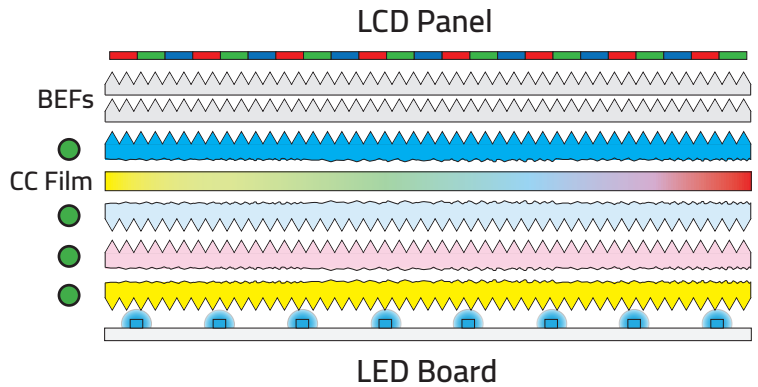
Simulated contrast comparison between an Edge Lit BLU and mini LED BLU

EXAMPLE MINI-LED FILM STACK

BrightView LED Hiding and Spreading

- Excellent uniformity and efficiency
- High performance with fewer layers
- Custom configuration
- True color by consistent separation
- Bright display through increased transmission

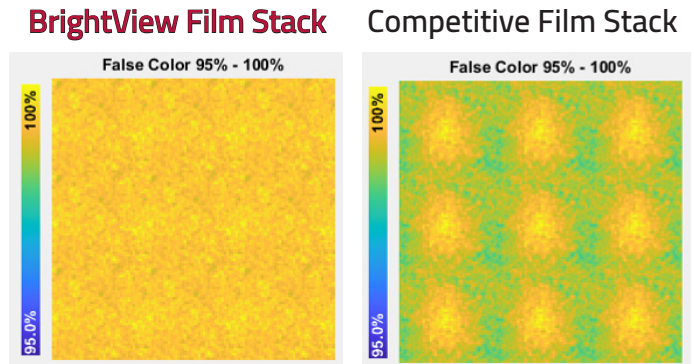
● BrightView MLA



PERFORMANCE COMPARISON

The BrightView film stack on the left shows highly uniform light output, while individual LEDs can be seen in a competitive film stack (false color). The BrightView film stack provides:

- 64% Better uniformity
- 16% Improved brightness
- 1 Fewer film layer

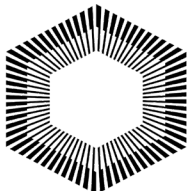


This is a reference result, and performance can vary depending on the backlight design.

ABOUT BRIGHTVIEW

BrightView specializes in the highest-performing visual and optical solutions for advanced technology applications. We rapidly create, collaborate, and construct the world's most intelligent visual solutions, unlocking an unmatched level of performance across a range of emerging technologies.

BrightView is an ISO 9001:2015 certified organization by Advantage International Registrar, Inc.



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