

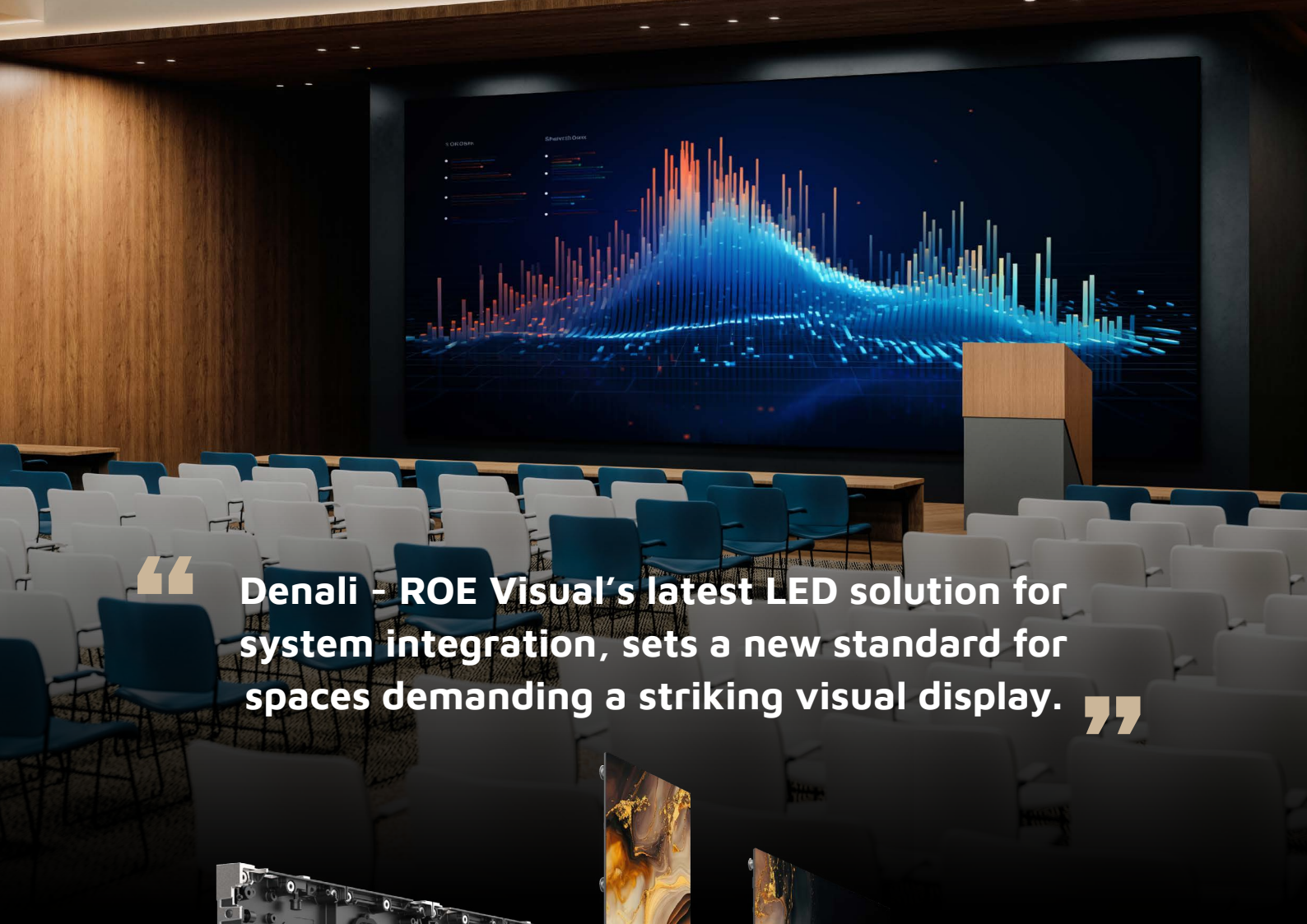
# ROE Display Solutions



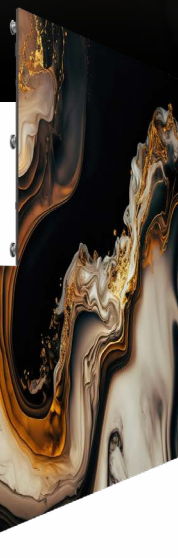
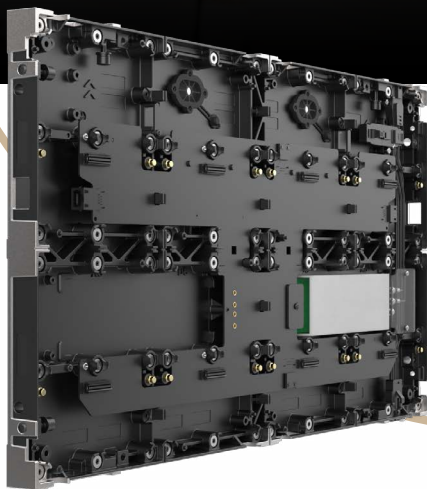
## Denali

True MicroLED Meets Visual Performance

INDOOR FIXED INSTALL



**“ Denali – ROE Visual’s latest LED solution for system integration, sets a new standard for spaces demanding a striking visual display. ”**



For spaces that demand striking visual impact, Denali delivers best-in-class specifications, unmatched stability, and energy-efficient performance. With an ultra-fine up-to 0.78mm pixel pitch and a native 16:9 resolution, its sleek frame ensures a seamless and perfect viewing experience.

Denali, ROE Visual’s latest innovation in system integration, introduces groundbreaking Micro LED In Package (MIP) technology. The result is an energy-efficient, high performing display with exceptional contrast, and an ultra-wide viewing angle.

Denali redefines what’s possible for visual displays.



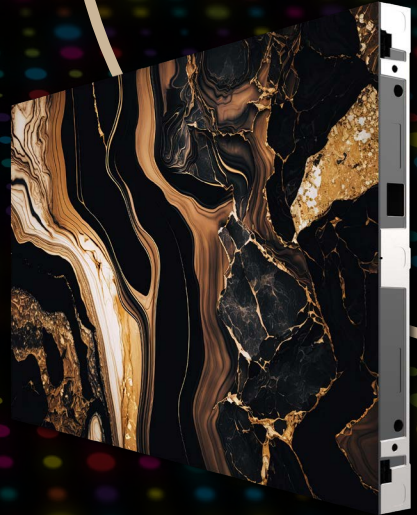
## Cutting-Edge MIP Technology for Enhanced Contrast, Viewing Angles, and Uniformity

Denali's MIP technology sets a new benchmark in visual performance. Bringing the Future in Pixels, Denali delivers exceptional contrast and an ultra-wide viewing angle in a revolutionary micro-chip design.

**99.03%**  
**Black Area Ratio**



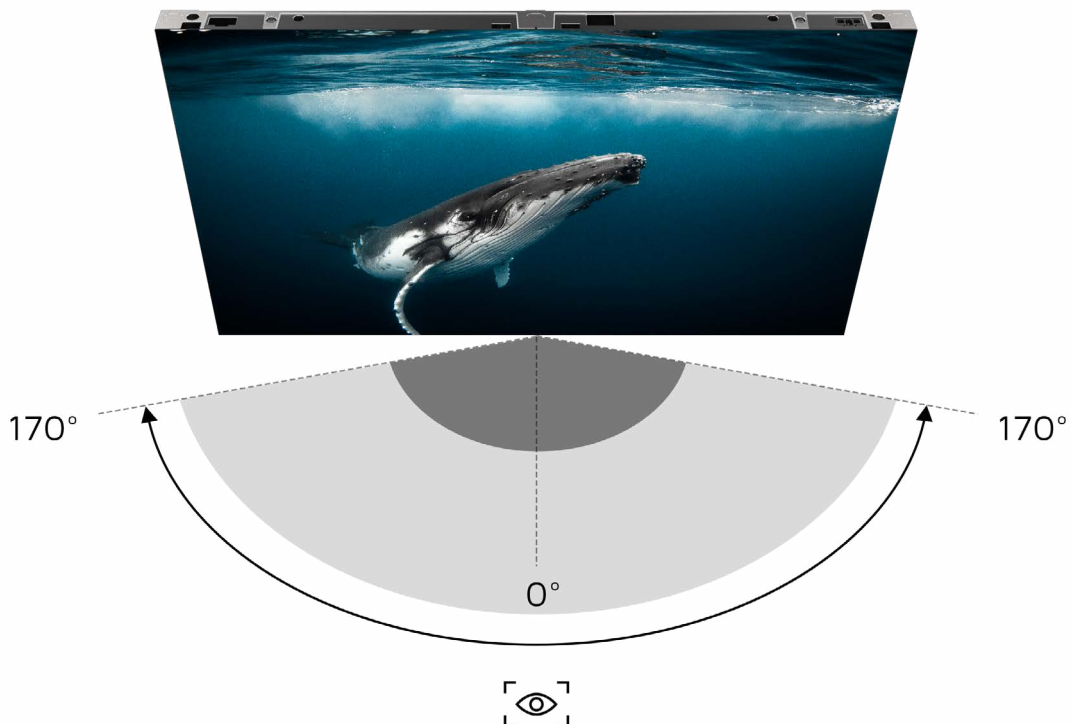
At a microscopic scale—smaller than the diameter of a human hair—Denali's chip design achieves an impressive 99.03% black area ratio, contributing to an almost true-black LED surface.



Using an innovative **no-substrate micro LED design** eliminates substrate refraction, resulting in an even brighter light output angle. This breakthrough technology enhances application potential, ensuring audiences enjoy stunning visuals from any position.



Micro LED In Package



The background of the top half of the page features a 3D illustration of several square Micro LED chips. Each chip has three distinct rectangular regions in red, green, and blue, representing the subpixels. These chips are arranged in a staggered, overlapping pattern against a dark, abstract background with colorful light streaks. A vertical line on the left side of the page connects five circular icons, each representing a different technology feature.

**MiP**

MiP technology

Leveraging advanced **Fan-Out package technology** for Micro LED applications, Denali ensures precise measurement processes that uphold the highest quality standards. This innovation enables uniform module production, resulting in a flawlessly even LED display surface with unmatched visual consistency.

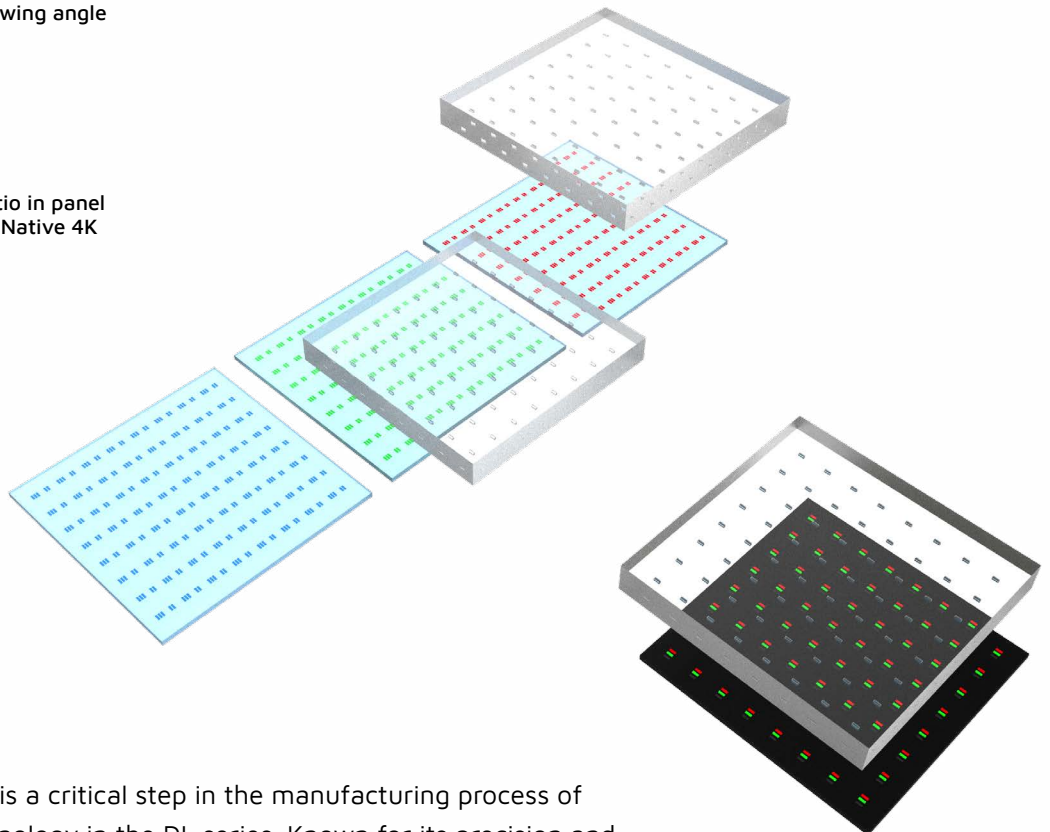
High black level

Ultra wide viewing angle

16:9

16:9 ratio in panel design. Native 4K

Energy efficient

A 3D diagram illustrating the mass transfer process in Micro LED manufacturing. It shows four rectangular panels arranged in a staggered, overlapping fashion. The top panel is white with a grid of small dots. The second panel is light blue with a grid of green dots. The third panel is light blue with a grid of red dots. The bottom panel is black with a grid of small dots. The panels are shown from an isometric perspective, highlighting the precision of the mass transfer process.

**Mass transfer** is a critical step in the manufacturing process of Micro LED technology in the DL series. Known for its precision and efficiency, this process ensures stable production, with reliable quality and exceptional performance.



## Save on Energy Consumption

Utilizing common cathode and flipchip Micro LED technology, paired with a high-efficiency power supply, Denali reduces energy consumption by up to 40% compared to traditional LED panels. This advanced design ensures a stable, low panel temperature, resulting in superior color performance and an extended lifespan.



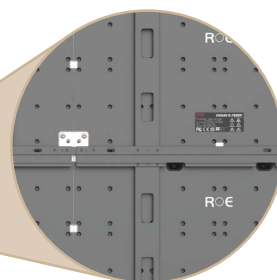
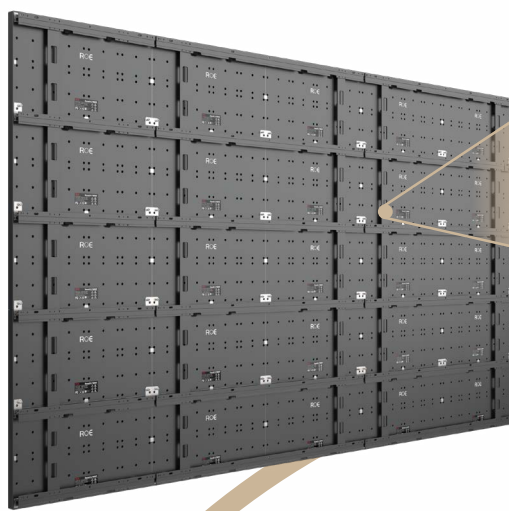
**40%  
reduction**



**16:9 ratio**

## Modern Elegance in High Precision

Denali's ultra-slim 55mm panel and frame design bring a touch of modern elegance to any space. With a native 16:9 aspect ratio and precise 600mm x 337.5mm dimensions, it ensures seamless integration. A meticulously engineered, high-precision mounting frame further enhances effortless installation for a flawless visual experience.

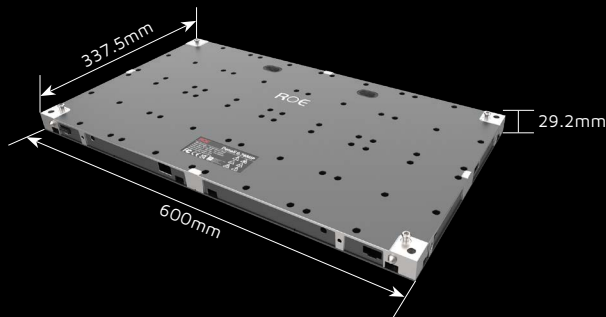


# Specifications

Denali	Denali 0.78 MIP	Denali 0.9 MIP	Denali 1.2 MIP
Pixel Pitch	0.78mm	0.93mm	1.2mm
LED Configuration	Micro LED in Package	Micro LED in Package	Micro LED in Package
Max Brightness Calibrated	600nits	800nits	1000nits
Panel Dimension	600mm x 337.5mm x 29.2mm 23.62" x 13.29" x 1.15"	600mm x 337.5mm x 29.2mm 23.62" x 13.29" x 1.15"	600mm x 337.5mm x 29.2mm 23.62" x 13.29" x 1.15"
Panel Resolution (H x V)	768 x 432	640 x 360	480 x 270
Weight Per Panel	5.5kg; 12.13lbs	5.5kg; 12.13lbs	5.5kg; 12.13lbs
Power Consumption Max / Average	80W / 40W	100W / 50W	100W / 50W
BTU Max / Average	270 / 135	345 / 160	345 / 160
Transparency	Solid	Solid	Solid
Serviceability	Front	Front	Front
Viewing Angle Horizontal	170°	170°	170°
Viewing Angle Vertical	170°	170°	170°
Refresh Rate	7680Hz	7680Hz	7680Hz
Gray Scale	16bit	16bit	16bit
Frame Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Processing Platform	Megapixel, NovaStar	Megapixel, NovaStar	Megapixel, NovaStar
Operational Temp / Humidity	-20°~ 45°C, 10~90%RH -4°~113°F, 10~90%RH	-20°~ 45°C, 10~90%RH -4°~113°F, 10~90%RH	-20°~ 45°C, 10~90%RH -4°~113°F, 10~90%RH
Storage Temp / Humidity	-40°~ 60°C, 10~90% RH -40°~140°F, 10~90% RH	-40°~ 60°C, 10~90% RH -40°~140°F, 10~90% RH	-40°~ 60°C, 10~90% RH -40°~140°F, 10~90% RH
IP Rating (Front / Reverse)	IP40	IP40	IP40

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

# Dimensions



[www.roevisual.com](http://www.roevisual.com)

ROE China | ROE US | ROE EU | ROE UK | ROE JP | ROE ME | ROE AUS  
[roe@roevisual.com](mailto:roe@roevisual.com)