

ÖSEL®

**OSEL PRIMEA
microLED**



The most advanced microLED display ever

Experience microLED displays like never before.

True-to-life imagery demands a seamless blend of extremely bright and dark areas, but without precise backlight control, this can result in unwanted blooming. That's why we've incorporated advanced Chip on Board technology, common cathode technology, and intelligent image processing to dramatically reduce blooming and deliver the most stunning and seamless visuals imaginable.

A curved microLED display showing a rainbow gradient and the text 'MicroLED'. The display is composed of a grid of small, square pixels. The colors transition from blue on the left to red on the right, with green, yellow, and orange in between. The text 'MicroLED' is displayed in large, white, 3D-style letters across the bottom of the screen. The letters are slightly shadowed, giving them a sense of depth. The background is a dark, almost black, space.

MicroLED

COB Technology & Flip chip technology

COB(Chip on board) technology has excellent reliability, superior pixel pitch, and better energy efficiency.

Flip-chip can effectively reduce temperature, improve image contrast, and bring more energy-saving.



Deep black



More energy efficient



Physical protection



Thinner and lighter

Deep dark. And made to stay that way

OSEL PRIMEA is dedicated to unleashing the full potential of visual excellence and we do it by tapping into our expertise in specialised manufacturing and creating an ultra-rich, matte black coating. By fusing these technologies together, we've birthed a display that delivers consistent black levels so deep they will take your breath away.



Delivers incredibly realistic colors

OSEL Primea microled brings refined specular highlights, incredible detail in shadows, and vibrant, true-to-life colours. Each display is calibrated in the factory and features pro reference modes for HDR colour grading.



Cold screen

Ultra low power consumption



DCI-P3

Wide color gamut coverage



TUV Rheinland

Rheinland certification

120Hz

120Hz

Image refresh rate



10,000:1

High contrast



HDR 10+

High dynamic display

We can do this all day

OSEL Primea microled has the coolest surface temperature of a LED display ever. That energy efficiency is the magic of common cathode. So wherever you can envision a LED display or whenever duty calls, run with it.

0.7mm Pixel Pitch

Low to

140 w/m²

Typical Power Consumption

0.9mm Pixel Pitch

Low to

134 w/m²

Typical Power Consumption

1.2mm Pixel Pitch

Low to

125 w/m²

Typical Power Consumption

1.5mm Pixel Pitch

Up to

117 w/m²

Typical Power Consumption

1.8mm Pixel Pitch

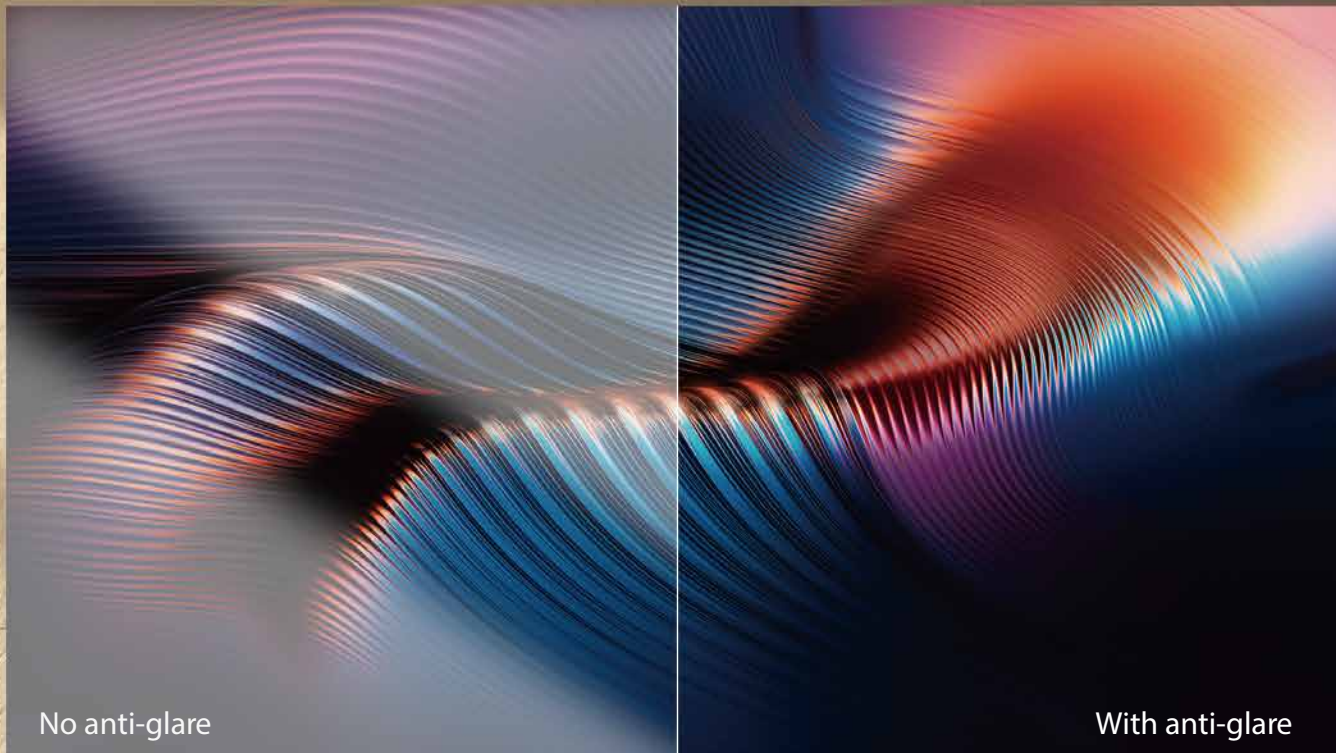
Up to

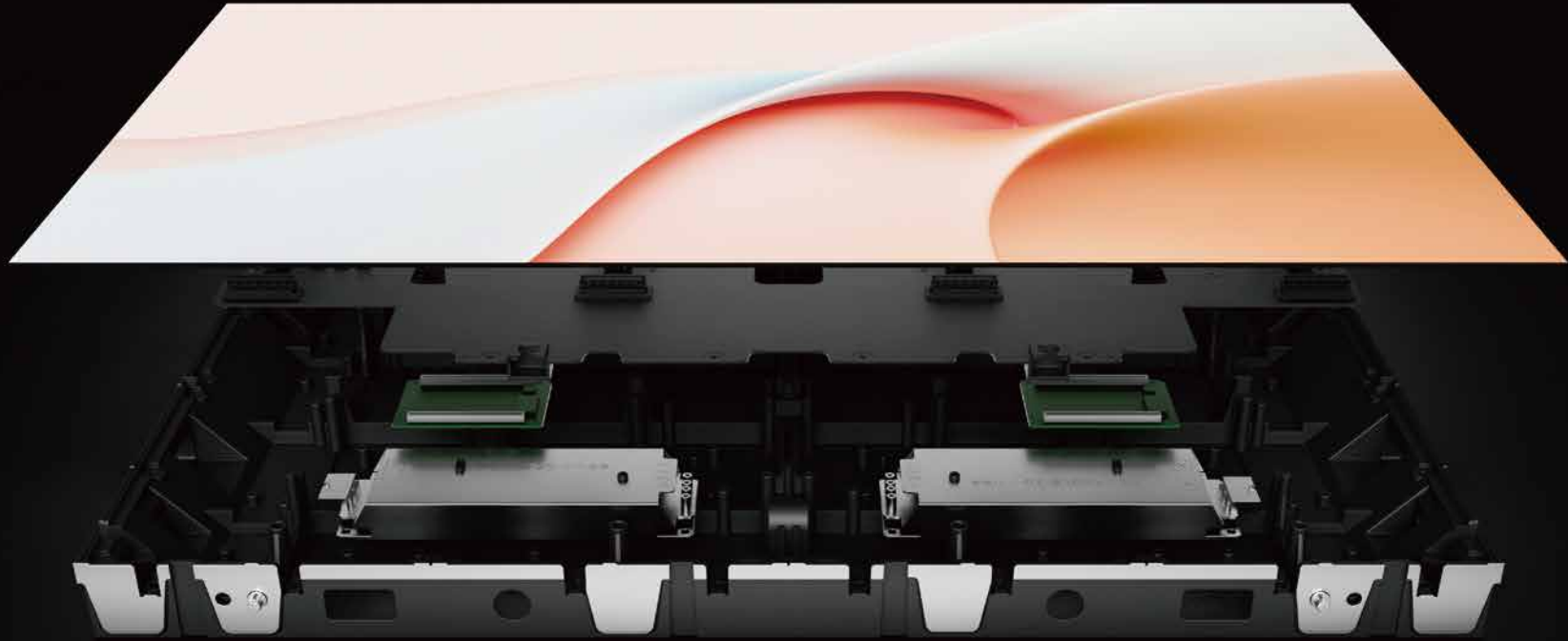
110 w/m²

Typical Power Consumption

Less glare. And even less glare

At OSEL PRIMEA, we've engineered every OSEL Primea microled with one thing in mind the pursuit of image perfection. Our relentless attention to detail has led us to develop an anti-reflective coating that operates on the nanometer level, scattering light and minimising glare to an unprecedented degree. Unlike traditional matte LED coatings that produce unwanted haze and lower contrast, our proprietary technology maintains perfect contrast while preserving the clarity and beauty of the image on the screen.





Innovation in every layer

The latest 5G technology for database loading with redundancy power and backup data makes 24/7 working with zero accident. One product, multiple upgradation in different LED technology or different pixel pitch.



500%

Speed
increase

Up to **30%**

less surface heat
than typical SMD

Up to **17%**

more energy efficient
than typical SMD

OSEL Primea Specifications (COB)

	Pixel Pitch (mm)	0.7	0.9	1.2	1.5	1.8
Physical Parameters	Cabinet Size (W x H x D) mm	600x337.5x42	600x337.5x42	600x337.5x42	600x337.5x42	600x337.5x42
	Cabinet Weight (kg)	5.2	5.2	5.2	5.2	5.2
	Cabinet Resolution (L x W) pixels	768x432	640x360	480x270	384x216	320x180
Optical Parameters	Pixel Density (pixel/m ²)	16,38,400	11,37,778	6,40,000	4,09,600	2,84,444
	Aspect Ratio	16:9	16:9	16:9	16:9	16:9
	Brightness (nits = cd/m ²)	1,000	1,000	1,000	1,000	1,000
	Refresh Rate (Hz)	≤3,840	≤3,840	≤3,840	≤3,840	≤3,840
	Color Temperature (K)	2,500~10,000	2,500~10,000	2,500~10,000	2,500~10,000	2,500~10,000
	Color Bit	16	16	16	16	16
	Viewing Angle (H/V)	160°/160°	160°/160°	160°/160°	160°/160°	160°/160°
Electrical Parameters	Features	Common Cathode	Common Cathode	Common Cathode	Common Cathode	Common Cathode
	Power Consumption Max(W/m ²)	≤420	≤400	≤360	≤350	≤340
	Power Consumption Typical (W/m ²)	≤140	≤134	≤125	≤117	≤110
	Peak Current (mA)	1300	1300	1300	1300	1300
	Working Voltage	AC:100V~240V, 50-60Hz	AC:100V~240V, 50-60Hz	AC:100V~240V, 50-60Hz	AC:100V~240V, 50-60Hz	AC:100V~240V, 50-60Hz
Additional Features	Lifetime (Hours)	100,000	100,000	100,000	100,000	100,000
	Operating Temp (°C)	-20 ~ +60	-20 ~ +60	-20 ~ +60	-20 ~ +60	-20 ~ +60
	Humidity Range (%)	10 ~ 90	10 ~ 90	10 ~ 90	10 ~ 90	10 ~ 90

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