



SOLARIS (MicroLED)



COB FLIP CHIP (COMMON CATHODE)

Making Eco-Friendly Choices EASY!

Discover the SOLARIS COB Flip Chip MicroLED display. Where exceptional image quality meets environmental responsibility.

Leading the market in energy efficiency, this cutting-edge display boasts up to a remarkable 40% reduction in energy consumption when compared to standard SMD technology.

Perfect for eco-conscious clients seeking high-quality technologies that prioritise the planet without compromising on performance.



Up to 40% energy savings with SOLARIS COB!

COB, Flip-Chip and Common Cathode technologies combine to create one of the most advanced, energy efficient, fine pitch displays on the market.



Pixel Protection Technology

Innovatively designed with an epoxy resin as part of the pixel assembly, you can expect unmatched protection against damage. Unlike typical SMD displays where Glue on Board is an optional extra, SOLARIS integrates this advanced protection as a standard feature, offering superior reliability and longevity in one cutting-edge display solution.

Pixel Pitch Options

P0.7

P0.9

P1.2

P1.5

P1.8



GOB Pixel Protection
Technology



1080p, 4K UHD, 8K &
Custom Resolutions



MircoLED - High
Fidelity



16bit Colour & 16bit
Greyscale



Up to 40% Energy Saving
vs Legacy SMD



Front Service



3840Hz Refresh Rate



Lifetime 100,000 hours+



90° Corners

90° & Curved Support

The SOLARIS display is the perfect solution for creative applications, thanks to its chamfered corner design. This design facilitates corner installations and innovative curved set-ups, enhancing the versatility and aesthetic appeal of your creative projects.

SMD vs COB

UP TO 40% ENERGY SAVING BY CHOOSING SOLARIS (COB)



SAVING YOU WATTS OF POWER!

0.9mm Pixel Pitch

Up to

134 w/m^2

Typical Power Consumption

1.2mm Pixel Pitch

Up to

125 w/m^2

Typical Power Consumption

1.5mm Pixel Pitch

Up to

117 w/m^2

Typical Power Consumption

1.8mm Pixel Pitch

Up to

110 w/m^2

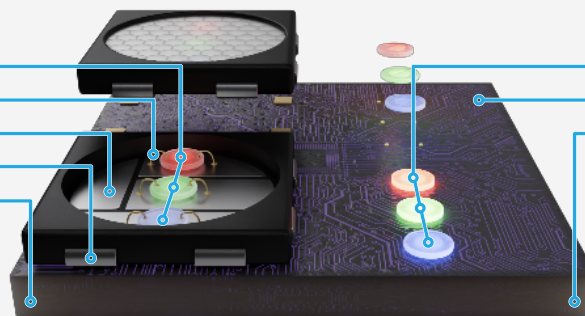
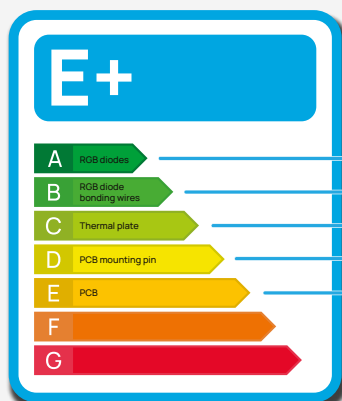
Typical Power Consumption

THE CLOCK IS TICKING, AND SO IS YOUR ENERGY METER!

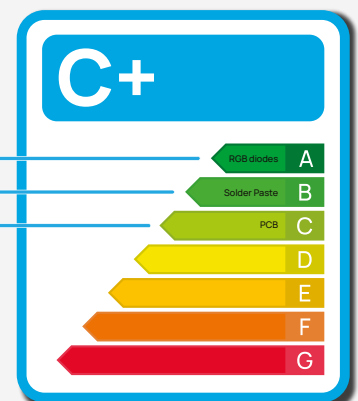
We've gone under the microscope, allowing you to see the components that make up an SMD pixel versus a COB Flip Chip (common cathode) pixel first-hand.

As you can see, the SMD pixel structure has many more component layers VS the COB Flip Chip pixel. When you add components to a circuit, you increase the resistance, resulting in **WASTED ENERGY** in the form of heat.

SMD Resistance Layers

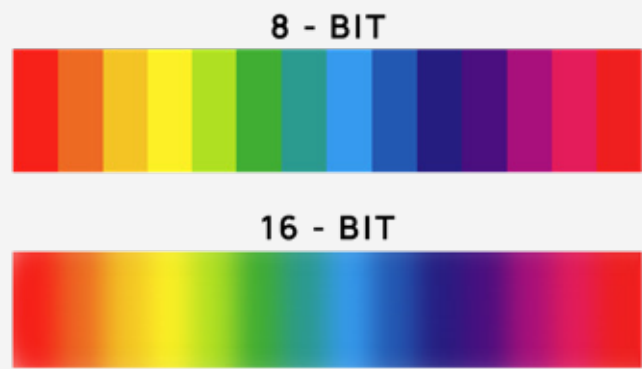


COB Resistance Layers



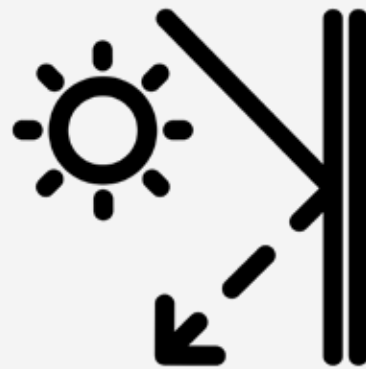
16-BIT DEPTH COLOUR REPRODUCTION

Experience the unmatched brilliance of SOLARIS LED displays, where every shade is brought to life with unparalleled 16-bit depth colour performance. This high bit depth is crucial for delivering visuals in mesmerising detail and depth, making each image breathtakingly lifelike.



REDUCED GLARE TECHNOLOGY

The SOLARIS modules are equipped with an anti-reflective coating that operates on the nanometre level. Designed to scatter ambient light, minimising glare and reflections, this clever technology is designed to ensure an optimal viewing experience.



10,000:1 CONTRAST

With SOLARIS, say goodbye to content banding, as our 16-bit greyscale smoothly transitions between shades, ensuring every scene unfolds with unparalleled depth and realism. Experience visuals as intended, with crisp, clear contrasts that make every moment on screen truly captivating.



Low grey level - colour block and highlight deadband



High grey level - rich colour and natural transition

USE CASES

RETAIL



EDUCATION



CONTROL ROOM

IMMERSIVE

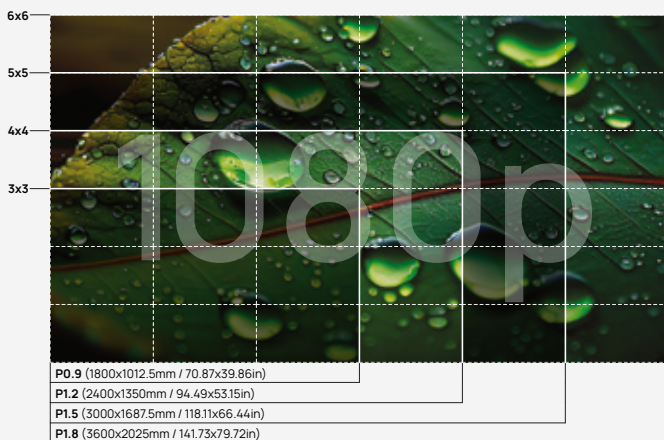
CABINET DIMENSIONS

With a 16:9 aspect ratio and lightweight design, the SOLARIS cabinet can be easily mounted directly onto the wall for a fast and efficient installation experience.



FIXED RESOLUTIONS & CUSTOM SIZES

The SOLARIS can achieve fixed resolutions: 1080p, 4k UHD, 8K or custom resolutions, shapes and sizes.



SPECIFICATIONS

PHYSICAL PARAMETERS					
Pixel Pitch (mm)	P0.7	P0.9	P1.2	P1.5	P1.8
Unit Size (W × H × D)	600 × 337.5 × 39mm 23.62 × 13.30 × 1.54in				
Unit Weight (Kg / lbs)	5.2 / 11.46				
OPTICAL PARAMETERS					
Unit Resolution	768 × 432	640 × 360	480 × 270	384 × 216	320 × 180
Aspect Ratio	16:9				
Brightness (nits = cd/m ²)	600				
Refresh Rate (Hz)	≤3,840				
Colour Temperature (K)	2,500 ~ 10,000				
ELECTRICAL PARAMETERS					
Power Consumption Max (W/m ² / W/ft ²)	420 / 39	400 / 37	360 / 33	350 / 33	340 / 32
Power Consumption Typical (W/m ² / W/ft ²)	140 / 13	134 / 12	125 / 12	117 / 11	110 / 10
Working Voltage (V / Hz)	AC: 100 ~ 240 / 50 ~ 60				
Features	Common Cathode				
ADDITIONAL FEATURES					
Lifetime (Hours)	100,000				
Operating Temp (°C / °F)	-20 ~ +60 / -4 ~ +140				
Humidity Range (%)	10 ~ 90				

*All specs are subject to change based on project requirements.

*Colour bit depth and greyscale affected by additional display calibration.


*True HDR capabilities based on additional calibration.



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www.theledstudio.com

Version 1.1

 LEDstudio



LED display technology
for tomorrow's world. ↵

Please contact us if you have any questions,
we're always happy to help

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