

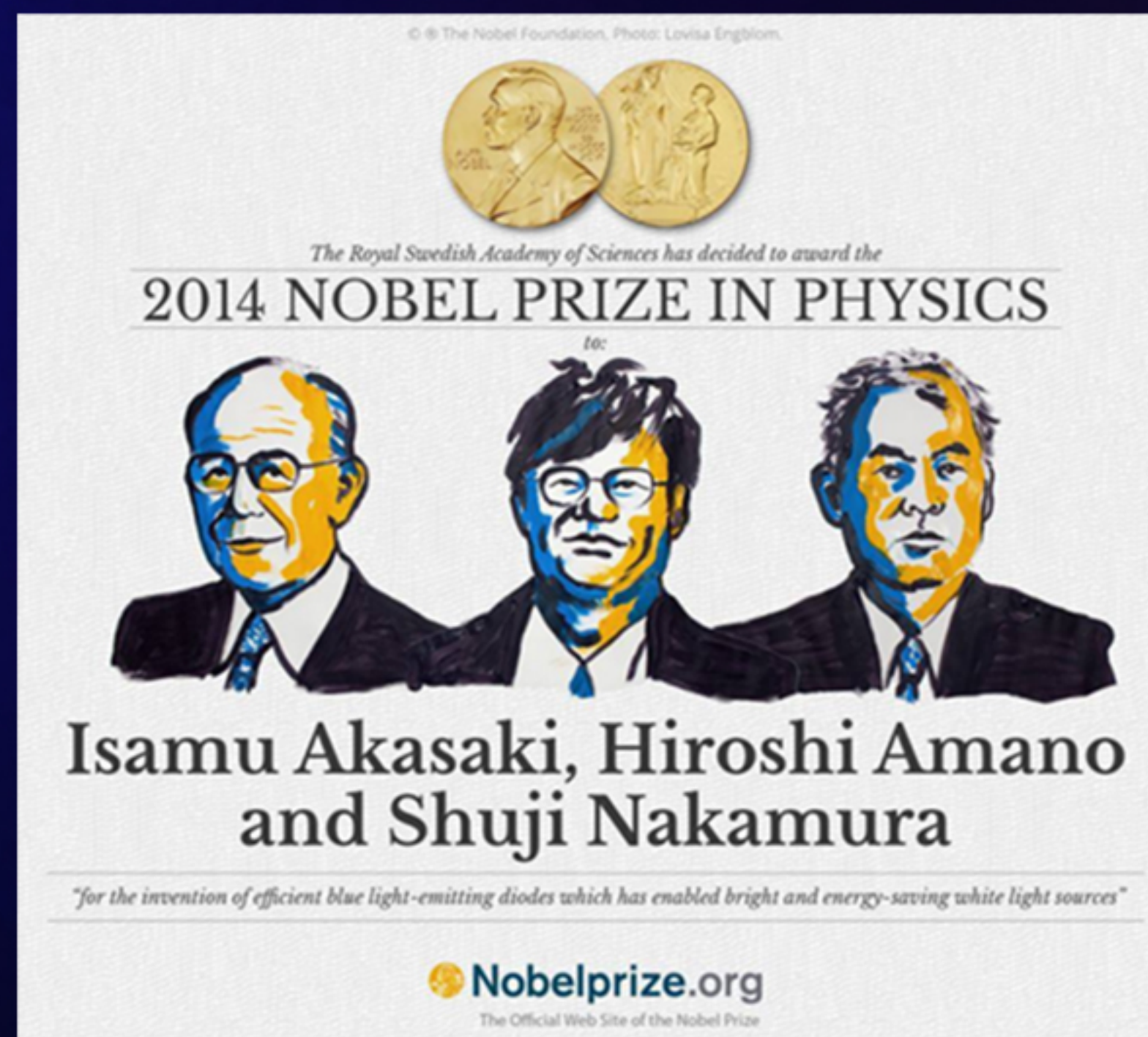
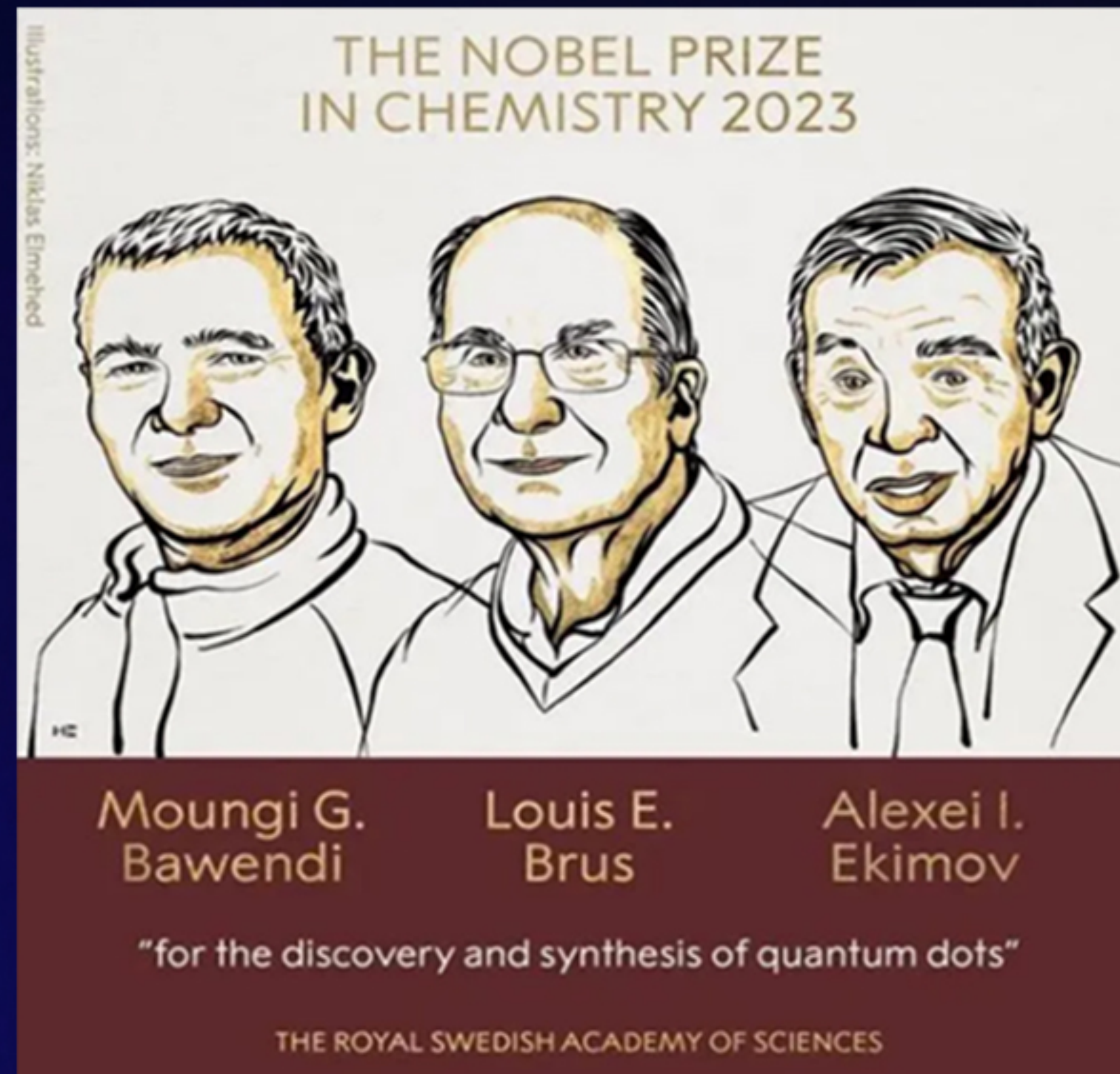
Quantum Dot Micro COB LED Screen

DCOB SERIES



A patent products based on Nobel Prize winning technology

KEY FEATURES



1. NPQD quantum dot technology: Combining the 2014 Nobel Prize in Physics blue LED and the 2023 Nobel Prize in Chemistry quantum dot technology, it is the crystallization of two Nobel Prize winning technologies;
2. US patented technology truly achieves consistent RGB light source materials, uniform tri color materials bring uniform light shapes, consistent display effects, comprehensively improve the color performance of the entire screen, and truly ensure consistent display at any angle without color deviation,;
3. High color accuracy at different temperatures: QD-MLED is not afraid of changes in current and temperature. Compared to traditional screens, QD-MLED is less sensitive to temperature changes and has a 20% lower color uniformity difference caused by startup temperature compared to traditional screens;
4. With the latest technology and a wide perspective, it accurately expresses colors from various angles, making it very suitable for XR private cinemas, enterprise large conference rooms, sports venues, school lecture halls, and immersive screens with excellent performance and huge application prospects;
5. The red and blue-green driving voltages in QD-MLED are the same, so there is no need to use dual voltage interface driving like traditional COB displays, reducing power costs by 15%;
6. No need for substrate transfer, improving product yield: NPQD red and blue-green substrates are the same substrate and do not require transfer. Traditional GAAS chips need to be converted into sapphire substrates, which results in significant yield cost losses;
7. Safety and Environmental Protection: Adopting arsenic free material system, environmentally friendly and pollution-free.



DCOB SERIES

Pixel Pitch:P0.78 P0.9375 P1.25 P1.5625

Cabinet size:600*337.5mm

Module size:150*168.75mm

Cabinet Weight:5kg

Brightness:600-1200cd/m²

Refresh rate:3840-7680Hz



No Color Deviation



Surface Waterproof



Arsenic-Free System



Front Maintenance

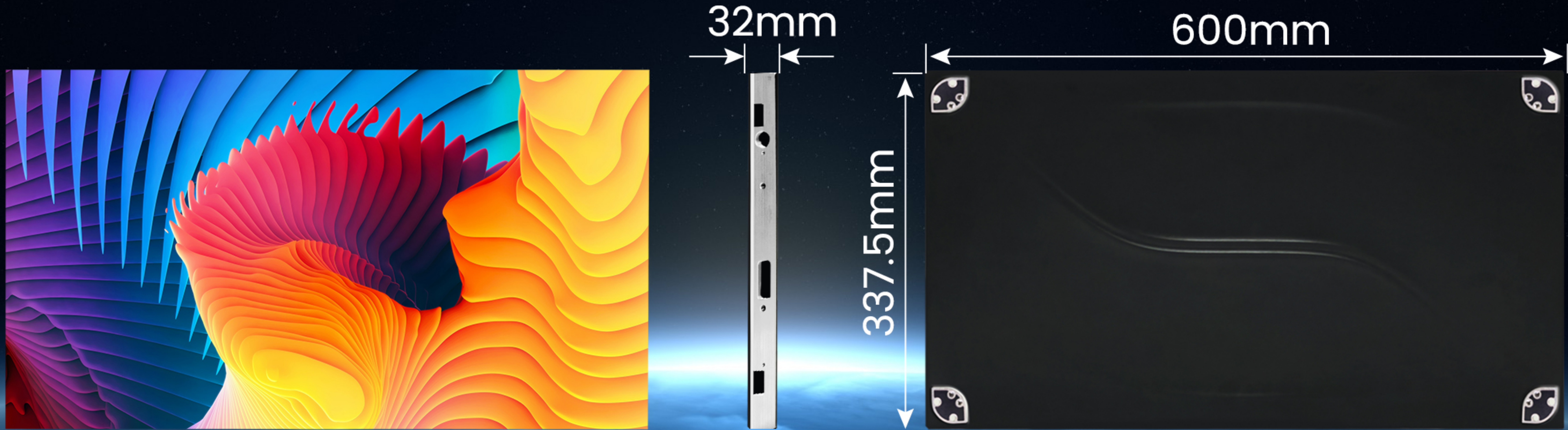


High Color Accuracy

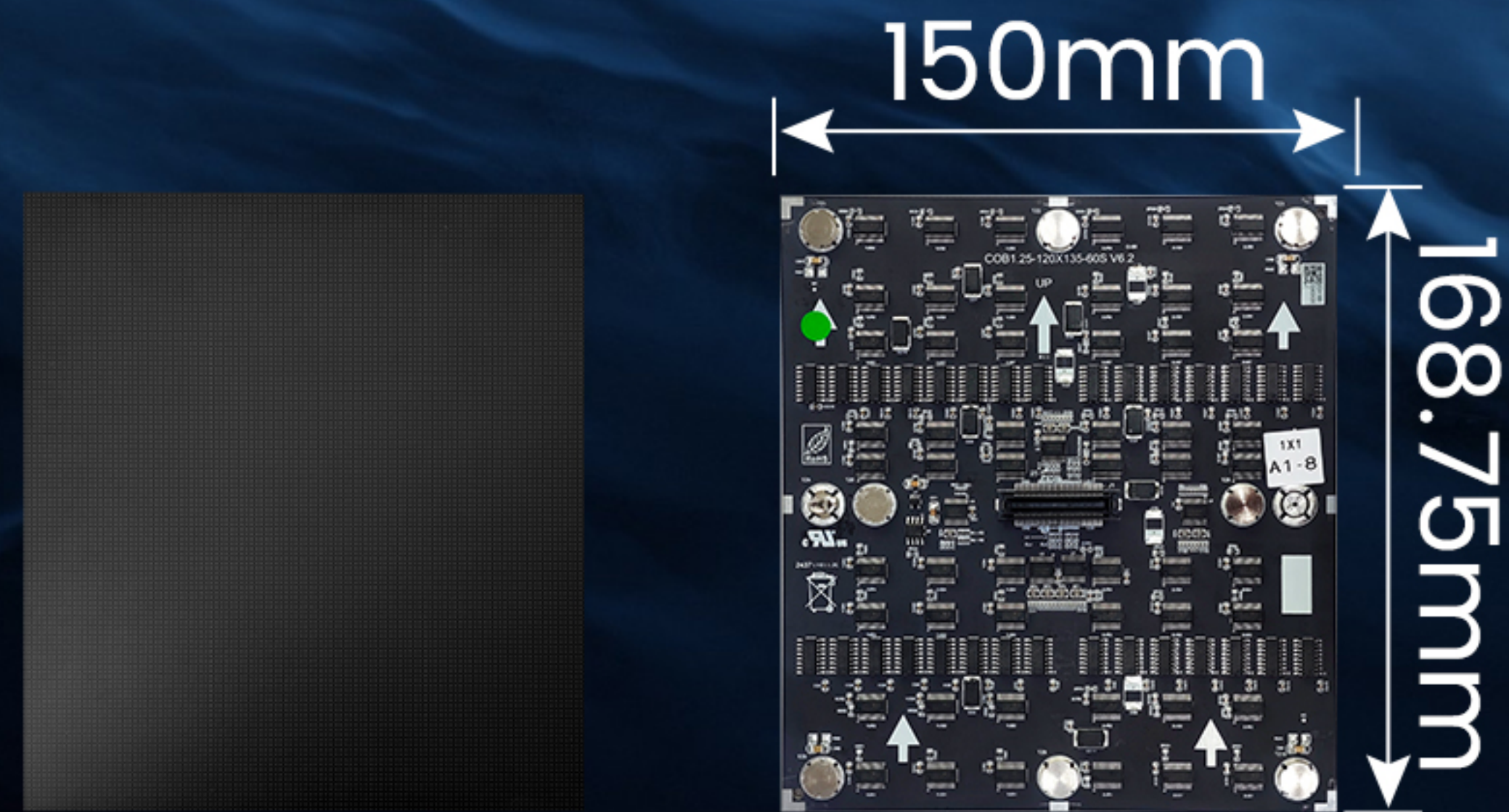


Energy Conservation

DIMENSIONS



Cabinet size: 600x337.5mm



Module size: 168.75x150mm

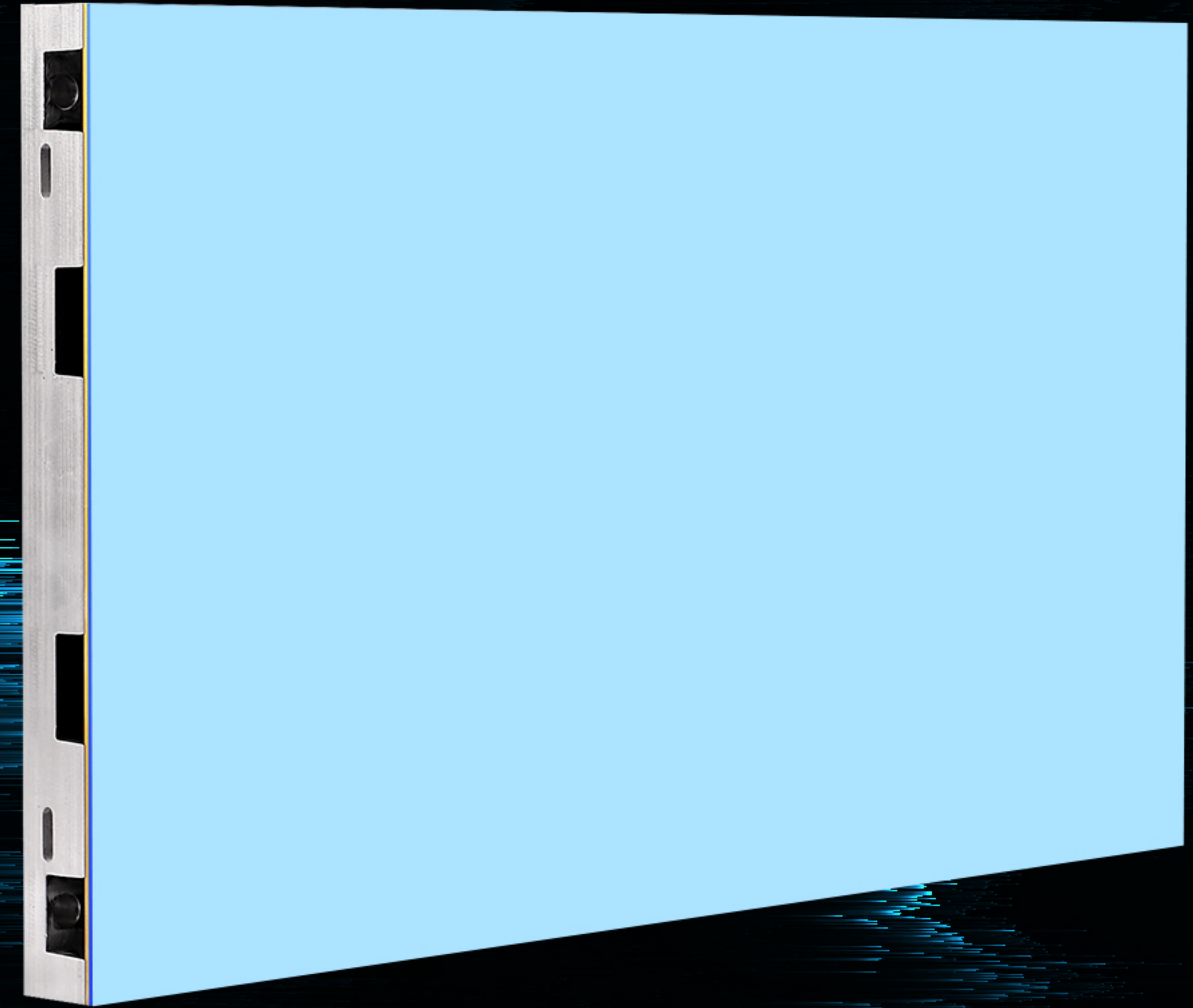
NO COLOR DEVIATION

The unification of three-color materials brings uniformity of light shape, ensuring consistent display at any angle.



DCOB SERIES

No color deviation at all angles, color temperature change less than 200K 15 times better than traditional screens.

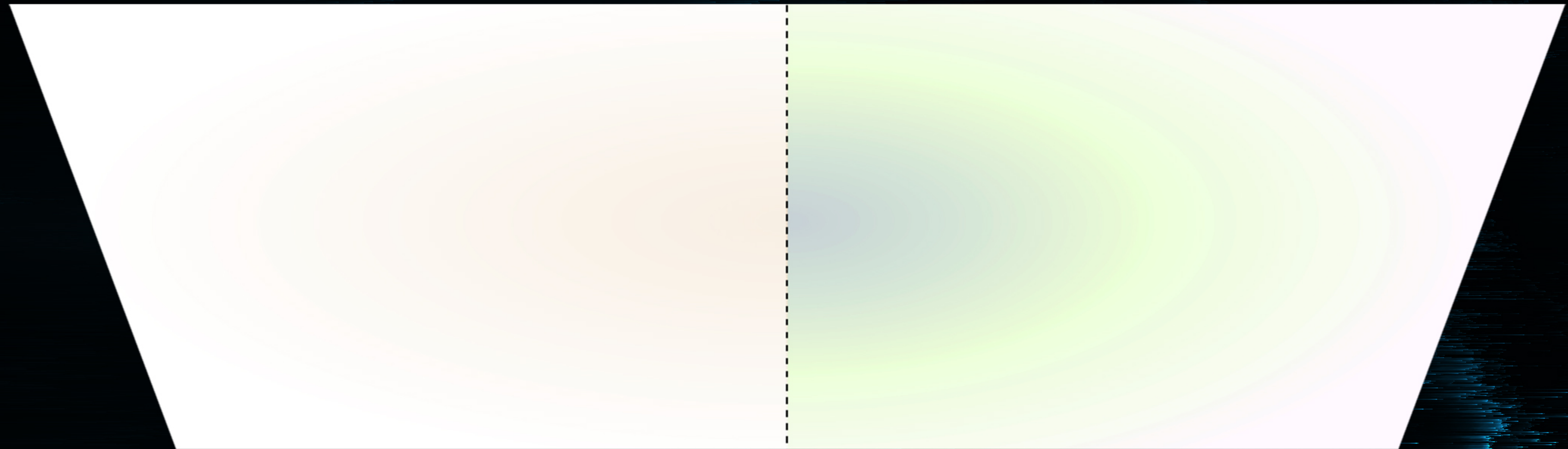


OTHER

Severe color cast at large angles, with color temperature changes exceeding 3000K

BETTER COLOR STABILITY

Eliminate color deviation caused by uneven screen temperature and current



DCOB SERIES

20% lower than the difference in color uniformity caused by the boot temperature of traditional screens

OTHER

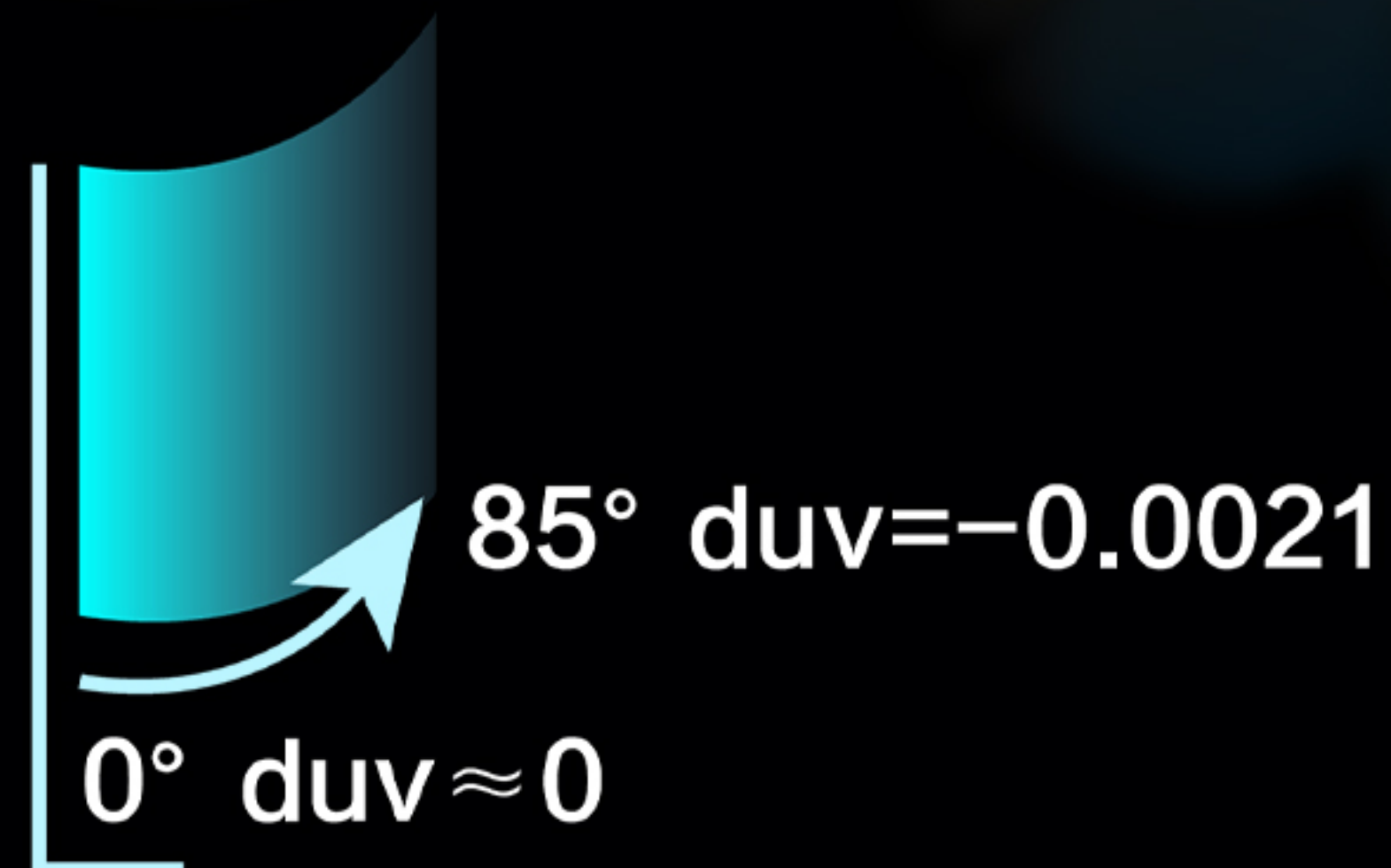
The red light chip is easily affected by current and temperature changes, and the brightness and wavelength fluctuate greatly, affecting the color of the picture, and the color is unstable after being turned on for a long time.

QUANTUM DOT LEVEL HIGH COLOR ACCURACY

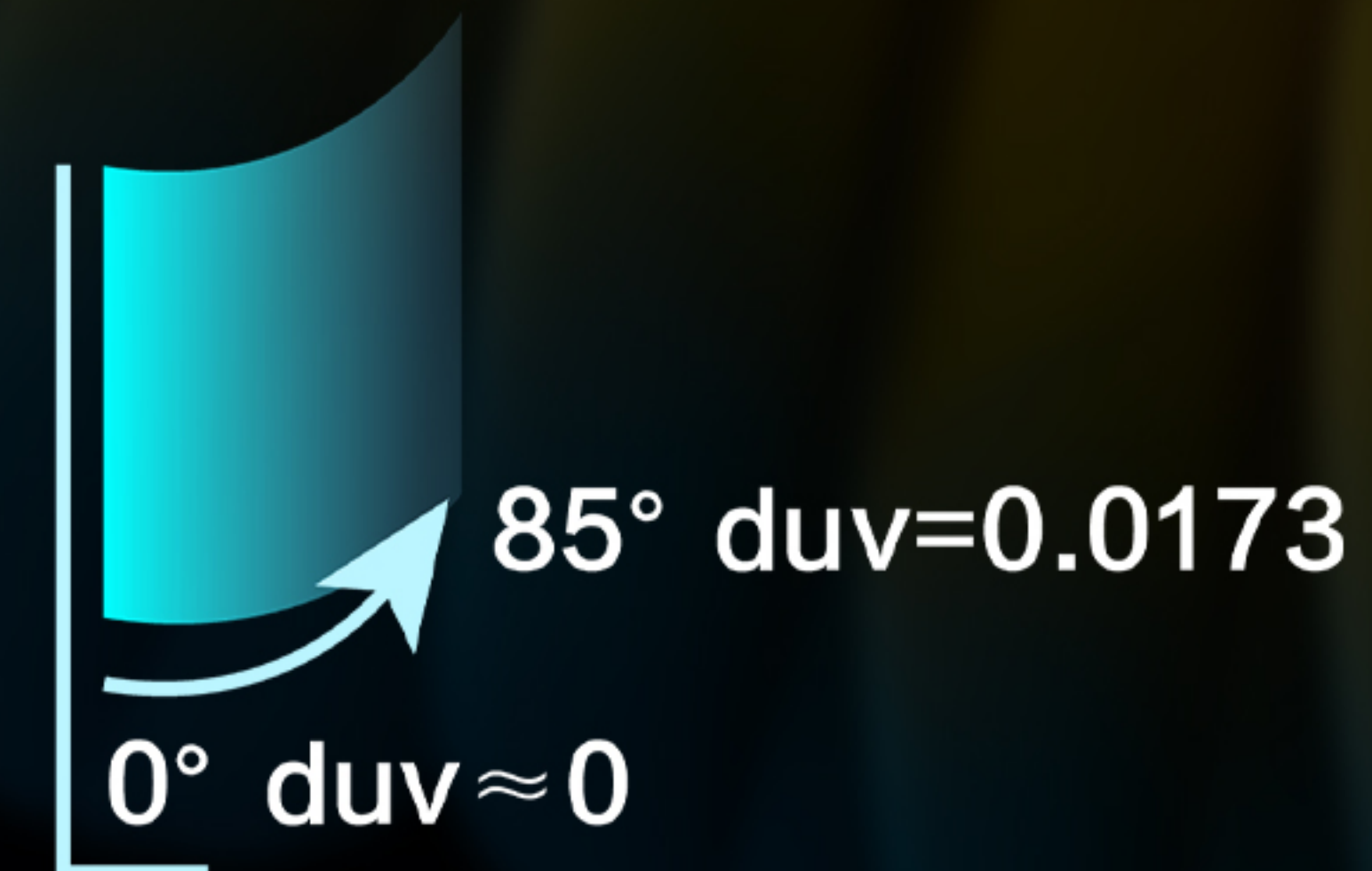
Affected by the size control advantages of quantum dots themselves, the output of quantum dot chips has
Extremely narrow (2nm) red light band with extremely high red light consistency



DCOB SERIES



OTHER



EXCELLENT HEAT DISSIPATION

The gallium nitride material used in quantum dot chips has high thermal conductivity, which helps the screen dissipate heat.

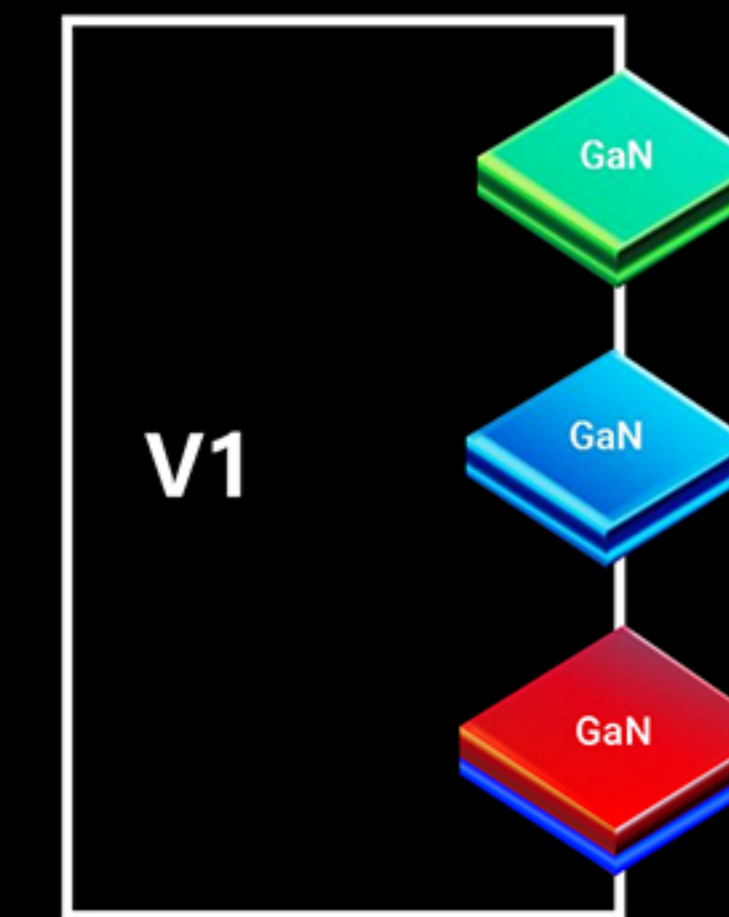
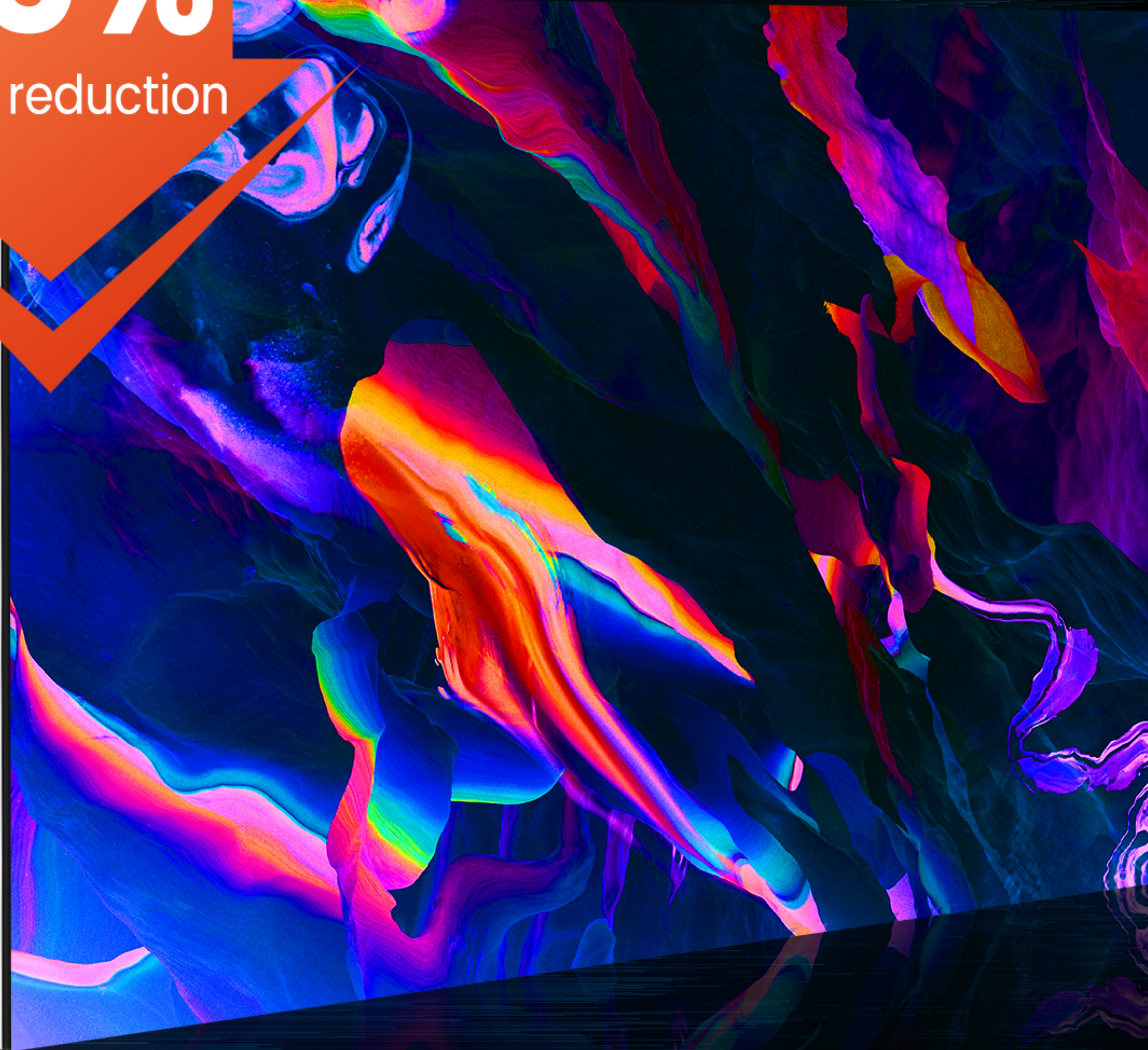


SAVE ELECTRICITY COST

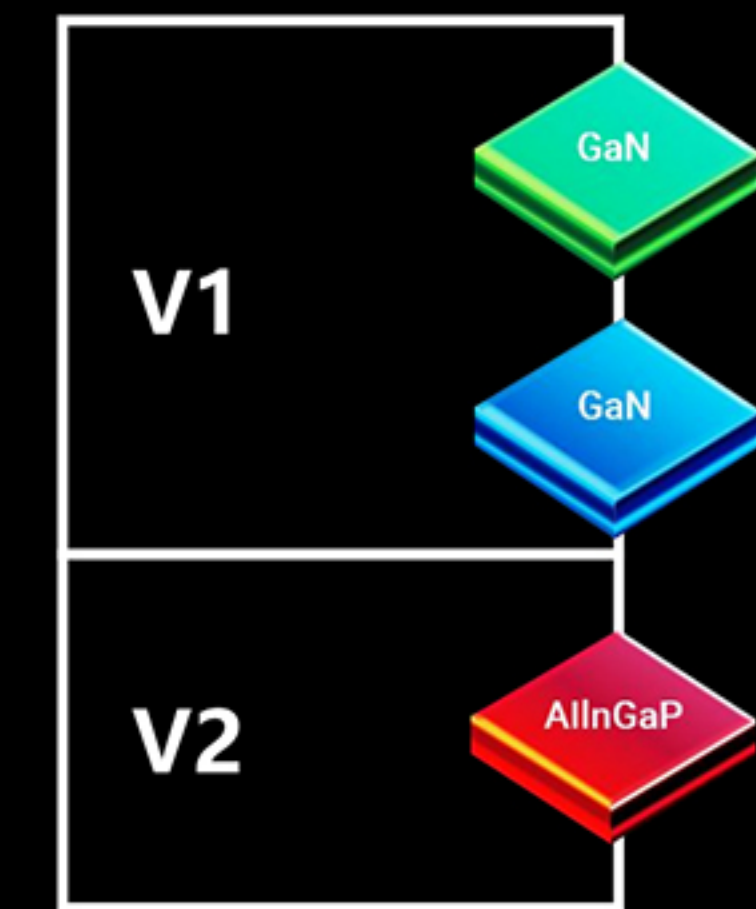
The three-color chips are made of the same material and have the same driving voltage. They can pass A set of IC system control reduces failure rate and maintenance costs.

15%

Cost reduction



DCOB SERIES



OTHER

The mid-red light driving voltage is the same as the blue-green driving voltage, so there is no need to use a dual-voltage interface driver like traditional displays.

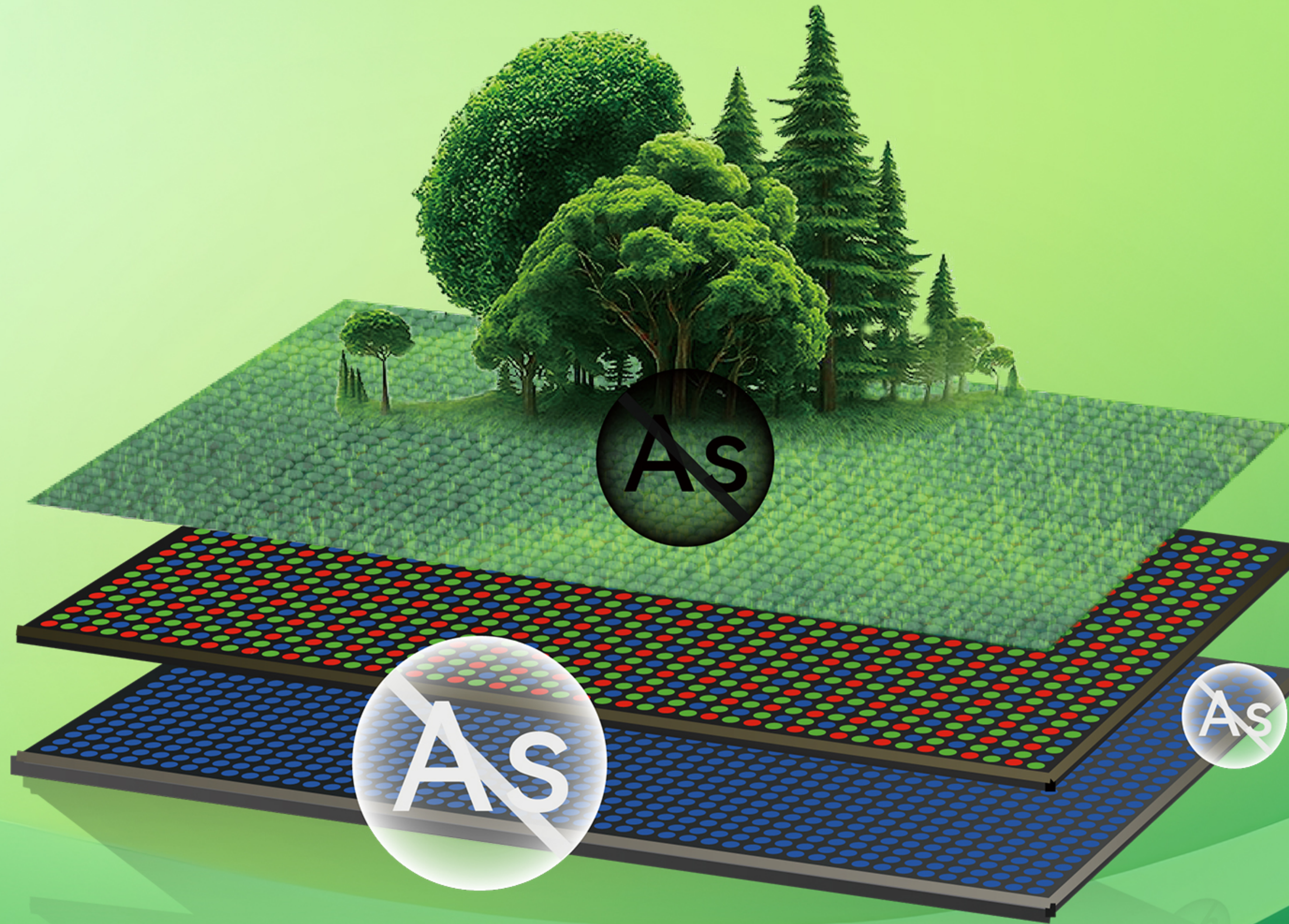
CORE TECHNOLOGY

Patent Nano-Porous GaN+Quantum dots NPQD blue Micro-LED technology Chip



NEW ARSENIC-FREE ENVIRONMENTAL STANDARDS

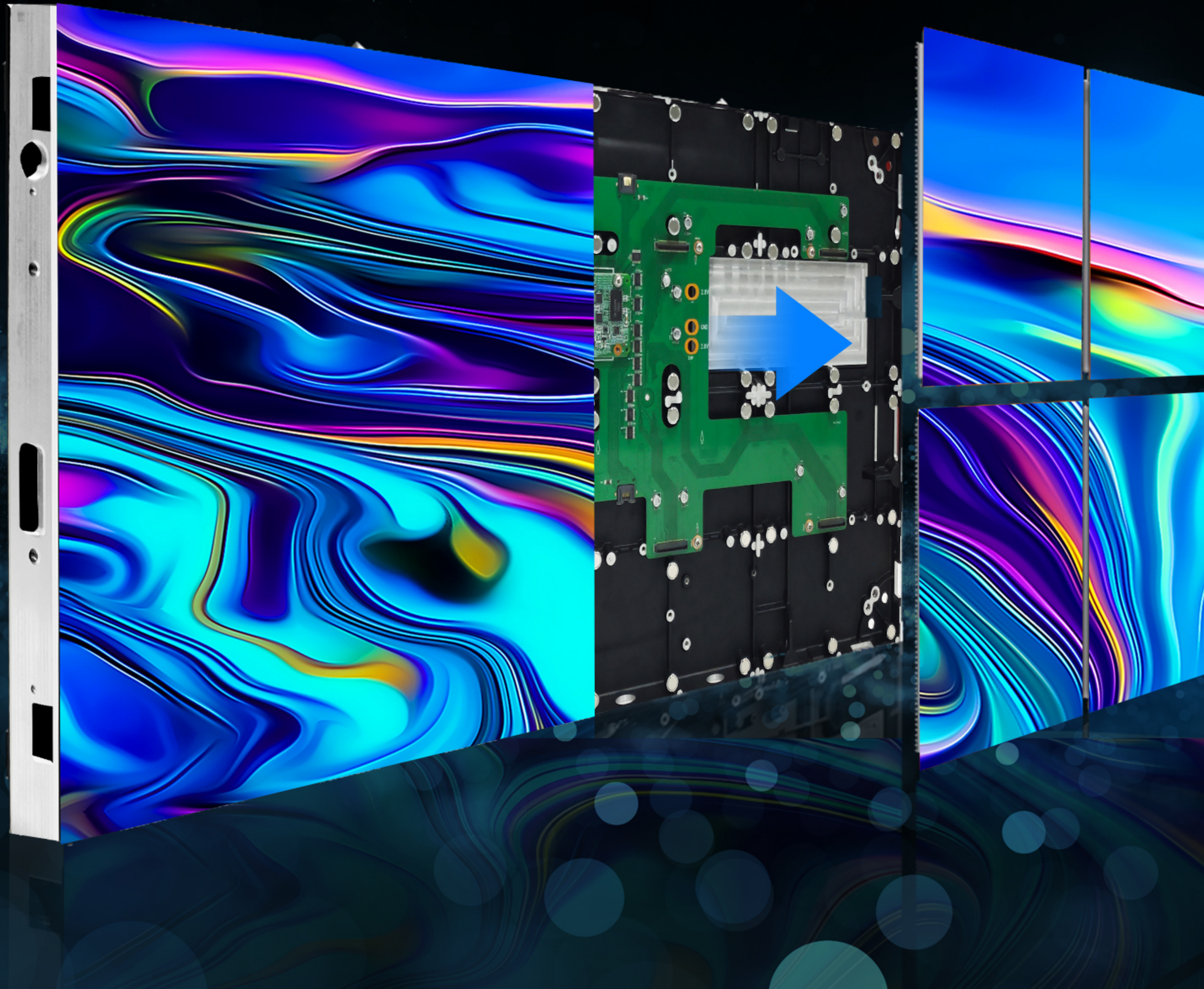
Quantum dot COB is arsenic-free and non-toxic, more environmentally friendly and safer:
Implement corporate social responsibility



The cadmium concentration in quantum dot COB is less than $0.03\mu\text{g}/\text{mm}^2$, which complies with international safety standards.

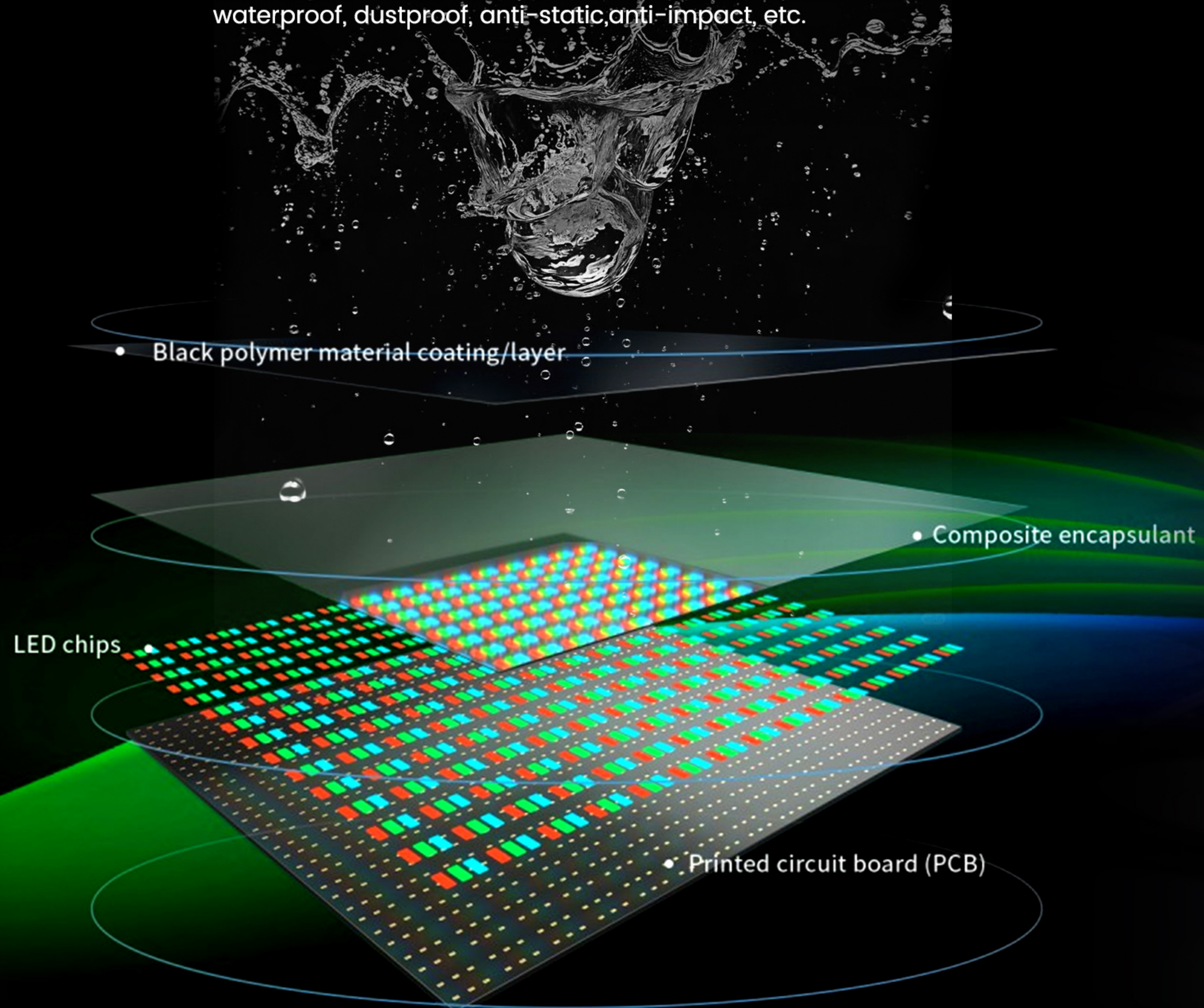
FULL FRONT MAINTENANCE

The full front maintenance design of DCOB series LED display allows for easy maintenance of the LED module, power supply, and receiving card from the front.



SURFACE IP65 PROTECTION

The point light source becomes an area light source, and the surface treatment can effectively achieve waterproof, dustproof, anti-static, anti-impact, etc.



170 ° WIDE VIEWING ANGLE

170 ° ultra wide viewing angle presents a perfect picture in multiple dimensions

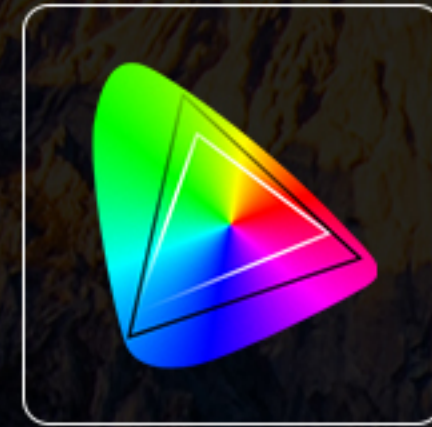


170°



WIDER COLOR GAMUT

The monochromatic light produced by quantum dot materials can cover almost all natural colors seen by the human eye. And can provide more saturated colors, so it can reach 100% Rec



100% Rec
Color Gamut



7680Hz
High Refresh



16Bit
High Grayscale



10000:1
High Contrast



PACKAGING



WOODEN CASE



FLIGHT CASE

VARIOUS INSTALLATION CHOICE



Wall mounted



Hoisting



Portable Mobile Stand



Floor stand mount

SPECIFICATIONS

Pixel pitch(mm)	P0.78	P0.9375	P1.25	P1.5625
Module resolution(W×H)	192x216	160x180	120x135	96x108
Moudle size(mm) (W×H)	150×168.75			
Unit module composition(W×H)	4×2			
Cabinet resolution(W×H)	768x432	640x360	480x270	384x216
Cabinet size(mm) (W×H)	600×337.5			
Lamp Panel Surface Processing	Matte			
Cabinet thickness(mm)	32			
Cabinet area(m²)	0.2025			
Cabinet weight(kg)	5			
Pixel Density(dots/ m²)	1393459	1137777	640000	409600
Cabinet Flatness(mm)	≤0.15			
Single-point brightness correction	Yes			
Single-point color correction	Yes			
Brightness(nits) (After correction)	600-1200			
Color temperature(K)	3000-10000 (adjustable)			
Horizontal viewing angle(°)	170°			
Vertical viewing angle(°)	170°			
Center distance deviation(After correction)	<3%			
Brightness uniformity(After correction)	≥98%			
Chroma uniformity(After correction)	±0.003Cx,Cy			
Contrast ratio(environmental illumination 0.05lux)	10000:1			
Max.Power Consumption(W/m²)	≤450			
Avg.Power Consumption(W/m²)	≤200			
Input Voltage	AC100~240V(50/60Hz)			
IC	Cathode circuit design			
Max frame change frequency(Hz)	60			
Refresh Rate(Hz)	3840/7680			
Life span(hrs)	100,000			
Maintenance method	Full front maintenance			
LED surface IP rating	IP65(front)			
Temperature-operating(°C)	-10-40			
Temperature-storaging(°C)	-40-60			
Humidity-operating(RH)	10%-90%			
Humidity-storaging(RH)	10%-60%			

CERTIFICATE



CERTIFICATE



5 YEARS WARRANTY

Common warranty in LED field is 2 years, ours is 5
Longer warranty periods, better after-sale services
worry-free user experience



OEM&ODM

1000+
Projects

5 days
Fast delivery



Door to door

3D
Installation video



Sample support



CONTACT US

SHENZHEN DDW TECHNOLOGY CO.,LTD



0086 755 23229716



0086 134 17558100



www.ddw.net



info@ddw.net



2F Building 8, YiLisheng Industry Park, Fuyong
Baoan District, Shenzhen,518103