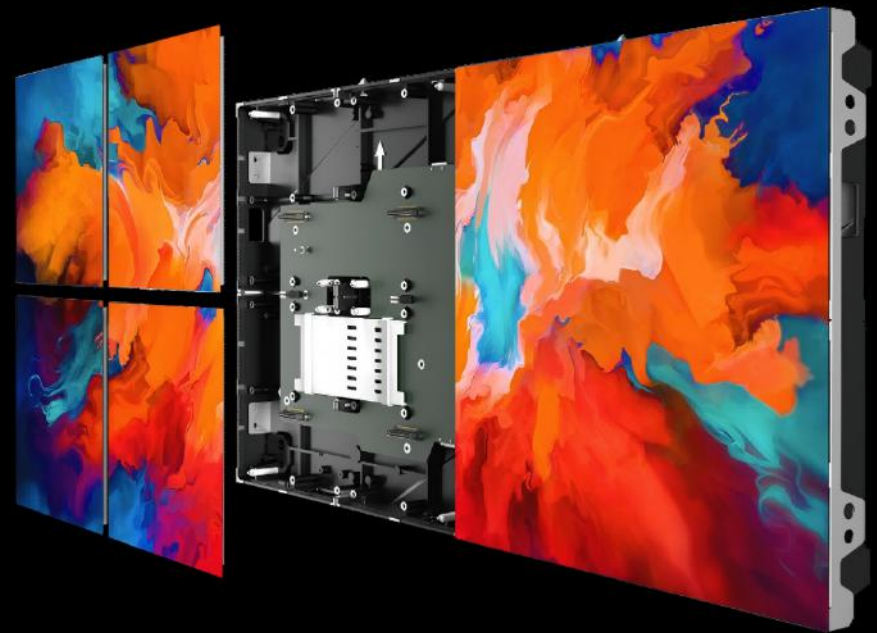# QD-COB Series

Direct View QD-mLED Display Panel

Pixel Pitch Options (mm):

0.9 / 1.25 / 1.56

Product Specs

Support 15000:1 Contrast Ratio

Gray Level Depth 14 bits to 16 bits

High Sharpness

3840Hz Refresh Rate

No Mura

Power Consumption ≤ 350W/m2

Key Features

Unprecedented QD Color Accuracy
Wider color gamut. Unified RGB material.

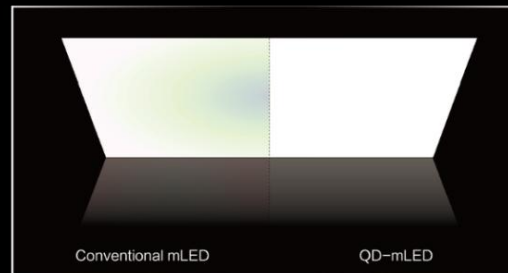
When viewing angle shift from 0° to 85°

8 times less color shift

12 times less color temperature difference

Superior Color Uniformity

Consistent color performance from the screen's center to edge.

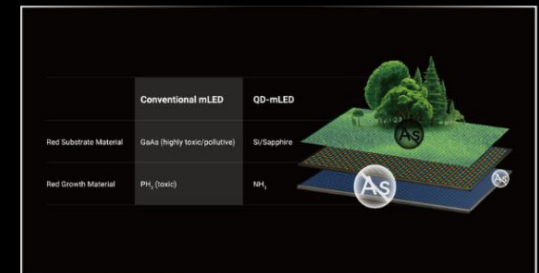**20% lower difference in color uniformity**

due to the change in operating temperature

Eco-Friendly

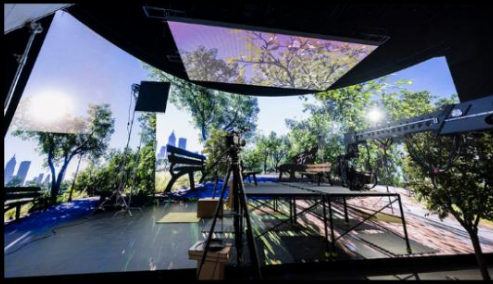*No toxic Arsenic or Phosphine is used in manufacturing.*

Benefiting the earth by adapting

NPQD® (GaN+QD) Red Chips

Compared to conventional mLED display products

Applications

Immersive CAVE

XR Video Shooting

Home Theater

Educational

Conference All-In-One

Stadium/Venue

Product specification

Product model	P0.93 (Common cathode)	P1.25 (Common anode)	P1.25 (Common cathode)	P1.56 (Common anode)
Pixel structure	Full flip chip COB	Full flip chip COB	Full flip chip COB	Full flip chip COB
Pixel Pitch（mm）	0.9375	1.25	1.25	1.5625
Module Resolution（W×H）dot	160×180	120×135	120×135	96×108
Module Size（W×H）mm	150×168.75×28	150×168.75×28	150×168.75×28	150×168.75×28
Module num（W×H）	4×2	4×2	4×2	4×2
Cabinet resolution（W×H）dot	640×360	480×270	480×270	384×216
Cabinet Size（W×H）mm	600×337.5	600×337.5	600×337.5	600×337.5
Led board surface technology	matte matte	matte matte	matte matte	matte matte
Cabinet weight（kg）	4.2	4.2	4.2	4.2
Pixel density（dot/m²）	1137777	640000	640000	409600
Cabinet flatness（mm）	≤0.15	≤0.15	≤0.15	≤0.15
Single pixel brightness correction	Yes	Yes	Yes	Yes
Single pixel color correction	Yes	Yes	Yes	Yes
White balance brightness（nits）(after correction）	600-700	600-700	600-700	600-700
Color temperature（K）	3000-10000 adjustable	3000-10000 adjustable	3000-10000 adjustable	3000-10000 adjustable
Horizontal viewing angle（°）	160	160	160	160
Vertical viewing angle（°）	160	160	160	160
Center distance deviation of LED (after correction）	<3%	<3%	<3%	<3%
Brightness uniformity (after correction）	≥98%	≥98%	≥98%	≥98%
Color Uniformity (after Correction）	±0.003Cx,Cy	±0.003Cx,Cy	±0.003Cx,Cy	±0.003Cx,Cy
Contrast ratio (environmental illumination 0.05lux）	20000:1	20000:1	20000:1	20000:1
Max power consumption（W/m2）	≤450	≤450	≤450	≤450
Avg power consumption（W/m2）	≤200	≤200	≤200	≤200
Power supply requirements	AC100~240V（50/60Hz）			
Drive mode	Common cathode constant current driving	Common anode constant current driving	Common cathode constant current driving	Common anode constant current driving
Max Frame frequency（Hz）	60	60	60	60
Refresh Rate（Hz）	3840	3840	3840	3840
LED life（hrs）	100,000	100,000	100,000	100,000
Maintenance mold	Front service	Front service	Front service	Front service
IP rating	IP65 (display surface)			
Working Temperature（℃）	-10 — 40	-10 — 40	-10 — 40	-10 — 40
Storage Temperature（℃）	-40 — 60	-40 — 60	-40 — 60	-40 — 60
Working Humidity（RH）	10% -- 90%	10% -- 90%	10% -- 90%	10% -- 90%
Storage Humidity（RH）	10% -- 60%	10% -- 60%	10% -- 60%	10% -- 60%