



Product Solution

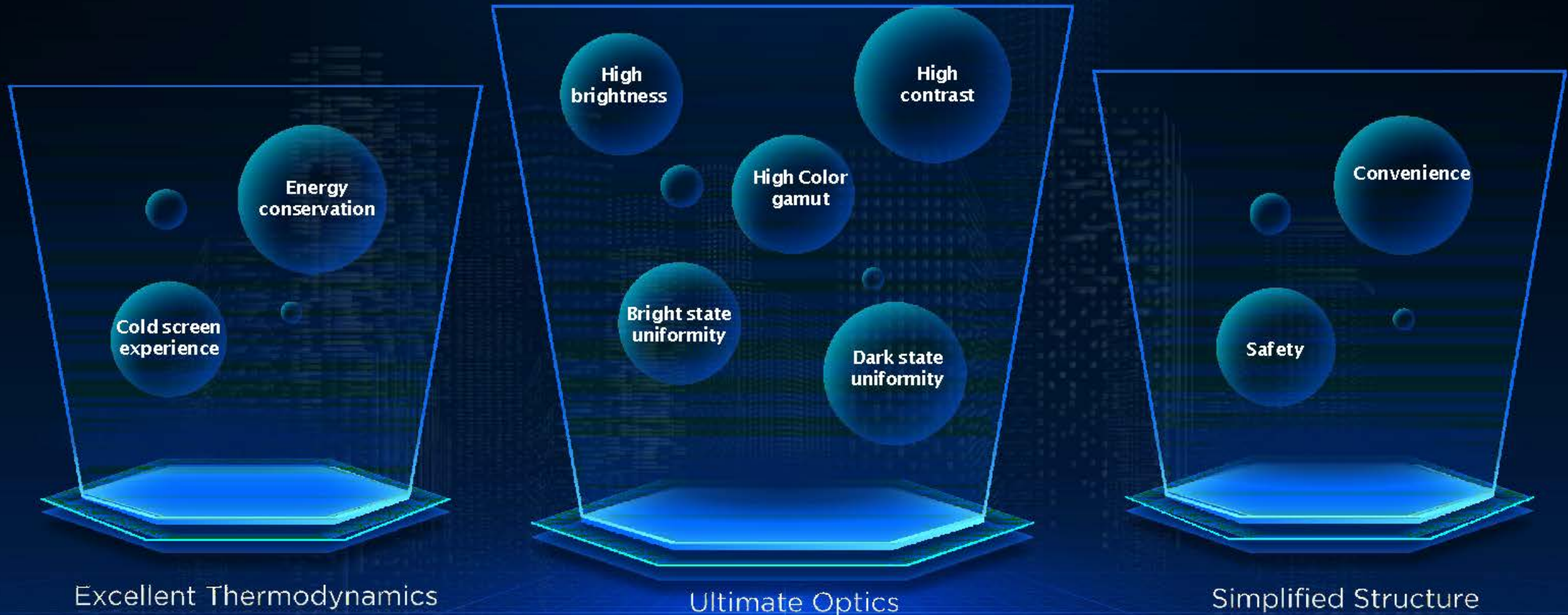


Indoor COB LED Display

BYH Series

Nanjing Chechi Technology Co., Ltd

The COB products we are looking forward to

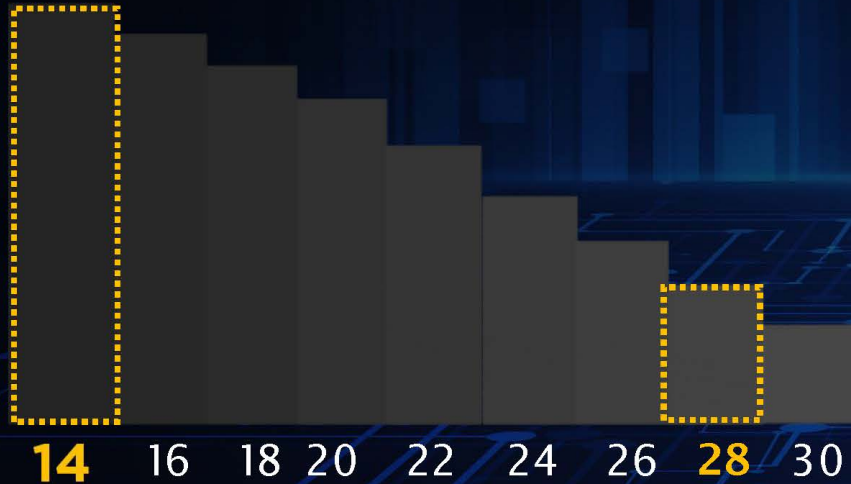


Ultimate Optics

High brightness · High contrast and high color gamut

The brightness range provided by the display is far below the human eye's recognition ability.

Human visual range (cd/m²)



Deep black
High contrast

L : 14
20000:1(10lux)

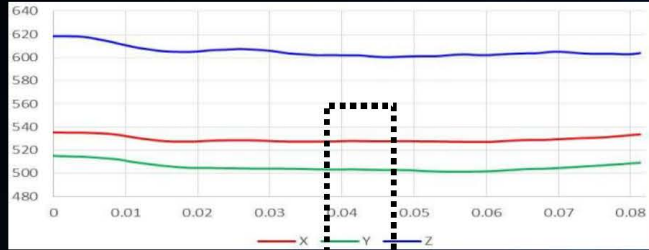
High Contrast
High color gamut

2000nits
99% DCI-P3

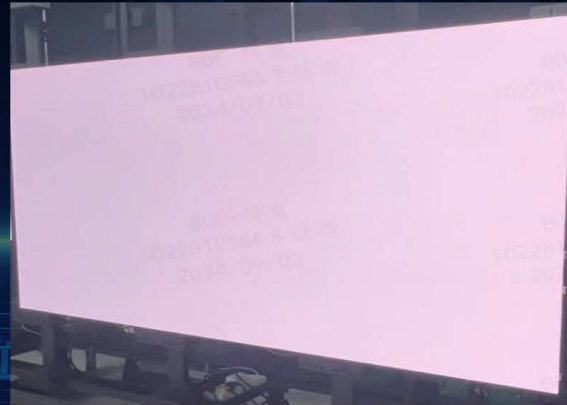
Ultimate Optics

Bright state excellent uniformity

Continuous



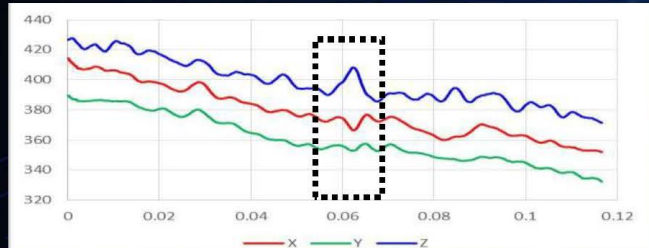
Continuous



Blocked



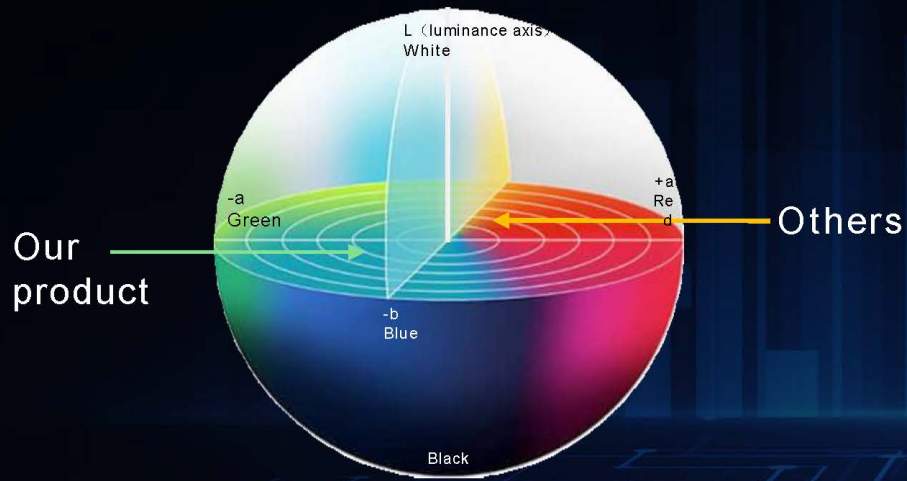
Step changed



Splicing consistency | No color segmentation | Edge optics | No color seam

Ultimate Optics

Dark state excellent uniformity

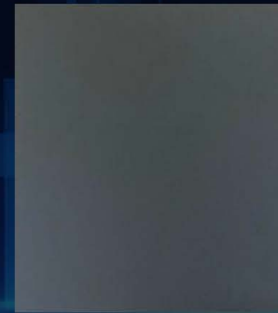


Product ink color test data

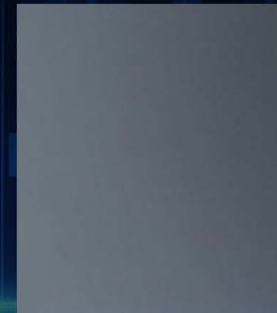
ITEM	BOE	Others
ΔL	0.23	0.54
a	-0.7	0.68
b	-2.0	1.51

The human eyes ability to distinguish between details and colors*

Color details	Black White	Black Green	Black Red	Black Blue	Green Red	Red Blue	Green Blue
resolving power	100%	94%	90%	26%	40%	23%	19%



Black Red



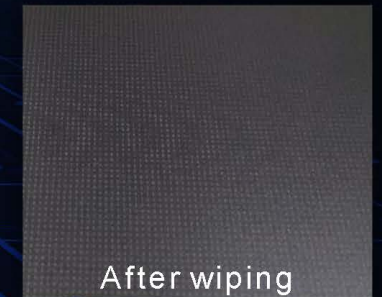
Black Blue



Black White



Before wiping



After wiping

Ink color uniformity | $\Delta L < 0.23$

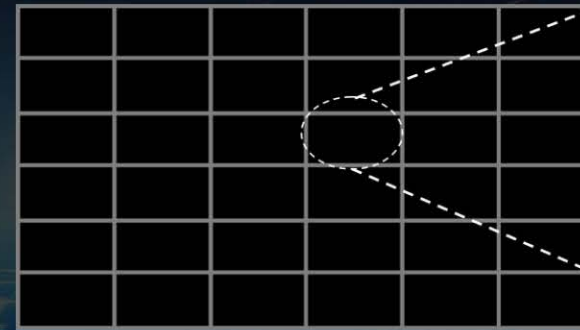
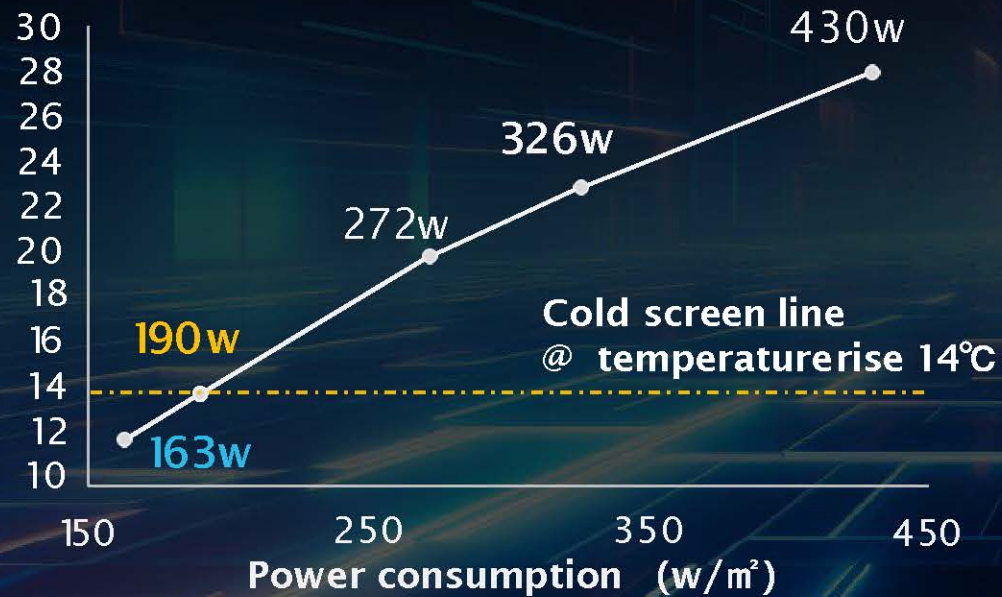
Visually superior | Black Blue

Easy maintenance | Dirt-resistant and easy to wipe

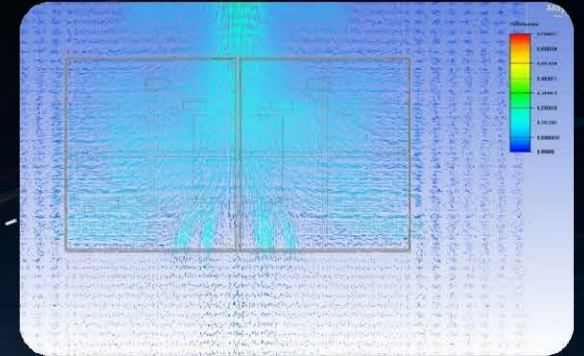
Excellent Thermodynamics

Energy efficiency improvement, cold screen experience

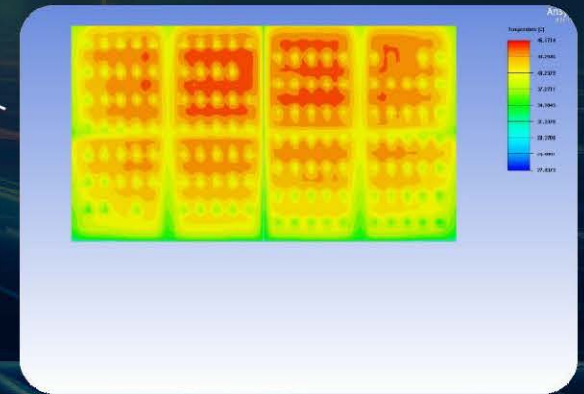
Temperature rise(°C)



6*6 Cabinets



Air flow simulation at the center of the Cabinet

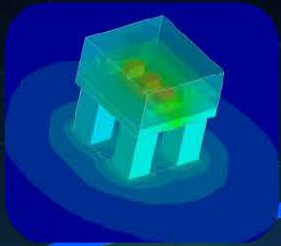


Surface temperature simulation of lamp board

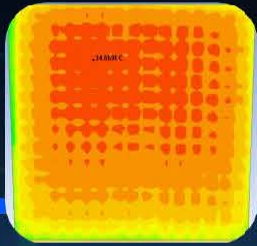
Cold screen line | $\leq 190W / m^2$

Excellent Thermodynamics

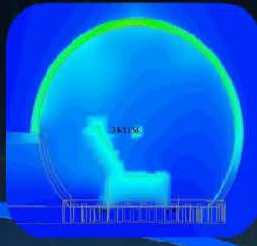
Energy efficiency improvement, cold screen experience



Chip



Module



Whole machine

Three dimensional heat dissipation system

Optical power consumption

Electric power consumption

Three dimensional heat dissipation

General COB
 $300\text{W}/\text{m}^2$

Power consumption

↓46%

Our COB
 $180\text{W}/\text{m}^2$

600nit

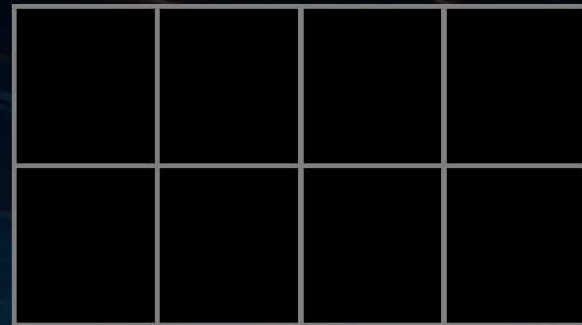
Cold screen | $\leq 37^\circ\text{C}$

Ultra low power consumption | $180\text{W}/\text{m}^2$ @600nit

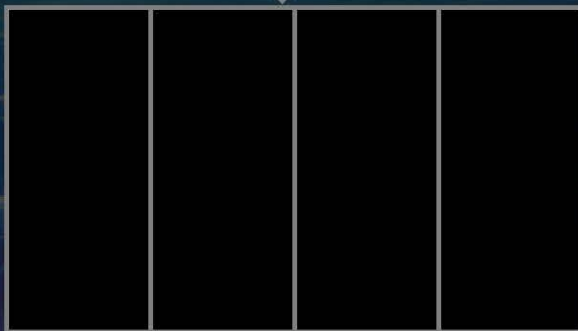
High efficiency | $0.3\text{W}/\text{nit}/\text{m}^2$

Simplified Structure

Larger sized modules

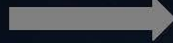


8.9inch

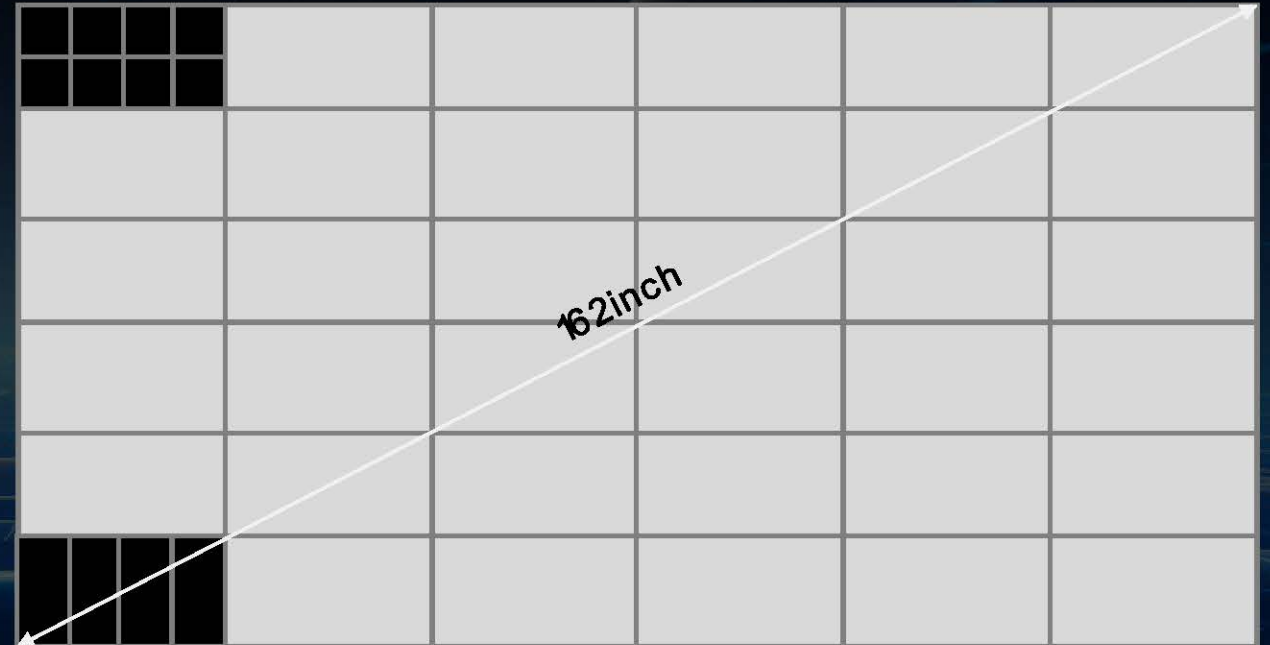
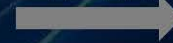


14.5inch

288EA



114EA



Large module

14.5inch

Installation efficiency

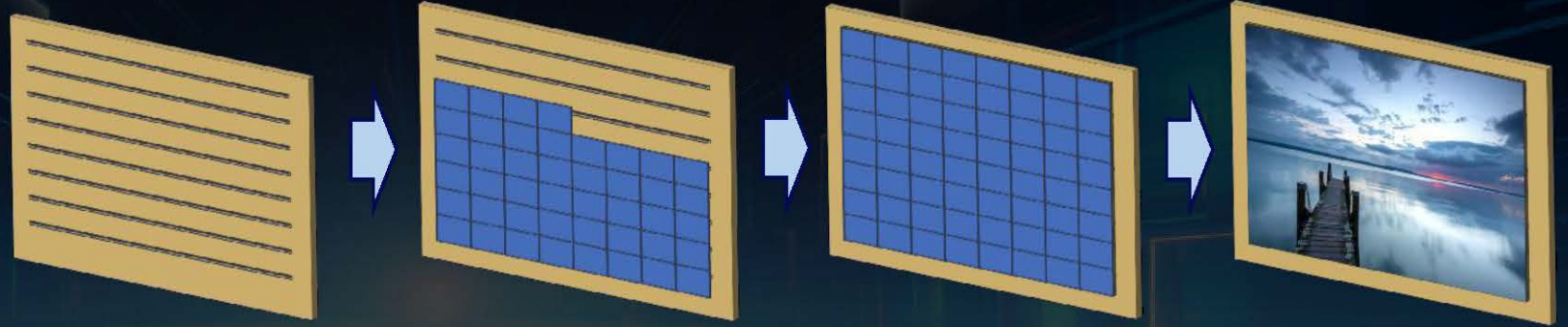
↑100%

Simplified Structure

Installation is more convenient, fast, and secure



Conventional steel structure



Standard installation structure

Conventional Installation

Design of steel structure
Steel structure Engineer

Steel structure construction
Constructor

Cabinet installation
Erection Engineer

Screen body edge (custom)
Constructor

Step 4
3 type of worker

Simple Installation

Standard bracket installation

Cabinet installation
Erection Engineer

Standard frame installation

Step 3
1 type of worker

Thin thickness | $< 60\text{mm}$

Quick installation | $\uparrow 40\%$ efficiency

Low cost | $\downarrow 1000+\text{¥}/\text{m}^2$

Safe and Reliable

- ❑ Power/signal dual input and dual backup
- ❑ EMC Class B
- ❑ Safety certification is complete
- ❑ 1000 hours reliability test



BYH V1 Series



Ultimate Optics

Typ.600 Max.800

High brightness (nit)

$\Delta L < 0.23$

Excellent Ink color uniformity

No color seam

No color segmentation

**Dirt-resistant and
easy to wipe**

Module surface easy
maintenance

Simplified Structure

Installation efficiency $\uparrow$ 40%

Compatible with standard
installation structure

Safe and Reliable

1000h reliability test

Complete overseas qualifications

MLED COB project cases

USA
BYH-COB P0.9
150m²



HongKong
Conference room
BYH-COB P1.2
60m²



Egypt
BYH-COB P1.2
600m²



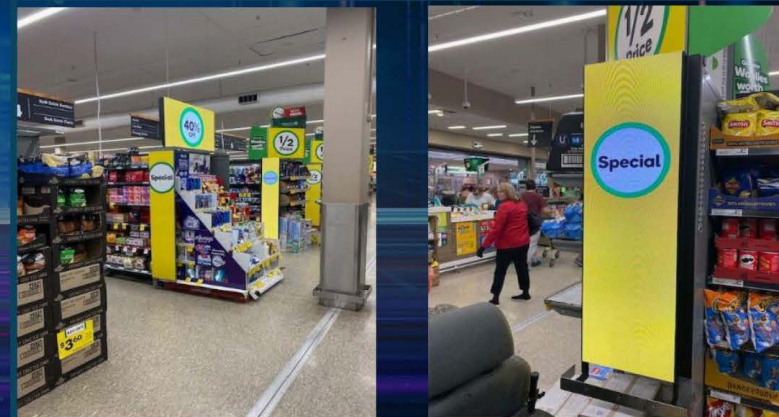
Thailand
BYH-COB P1.2
136m²



Japan
Exhibition display
BYH-COB P1.2
35.64m²



Australia
Supermarket
BYH-COB P1.2
8.91m²



Specification

Parameter	BYH012	BYH009
Module Size (mm)	150*168.75 / 300*337.5	300*337.5
Cabinet Module Configuration	2*1 / 4*2	2*1
Cabinet Resolution	480*270	640*360
Cabinet Size (mm)	600*337.5	600*337.5
Pixel Density (points/m ²)	640,000	1,137,778
Maintenance Method	Front Maintenance	Front Maintenance
Cabinet Material	Die-cast Aluminum	Die-cast Aluminum
Cabinet Flatness (mm)	≤0.15	≤0.15
Typical Lifetime (hrs)	≥100,000	≥100,000
Horizontal Viewing Angle (°)	≥160°	≥160°
Vertical Viewing Angle (°)	≥160°	≥160°
Color Temperature (K)	2000-15000 Adjustable	2000-15000 Adjustable
Color Gamut	NTSC 110%	NTSC 110%
Chromatic Uniformity	≥97%	≥97%
Brightness (after nit calibration)	≥800	≥800
Refresh Rate (Hz)	3840	3840
Peak Power Consumption (W/m ²)	310	310
Operating Temperature Range (°C)	-10~40	-10~40
Storage Temperature Range (°C)	-20~60	-20~60
Operating Humidity Range (RH)	10%~90%	10%~90%
Storage Humidity Range (RH)	10%~90%	10%~90%

Thank you

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Please contact us if needed; we will serve you wholeheartedly.