



# Butterfly LED **APEXPRO SERIES**

Stabilize Your DOOH in All Weather

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# Product Overview

L01

STABILIZE YOUR DOOH IN ALL WEATHER

# Product Overview



- 01 Excellent outdoor fixed LED display screen
- 02 8500-12000nits Ultra High Brightness
- 03 Front/Rear IP66 rating
- 04 Wide application for DOOH
- 05 Die-casting aluminum cabinet



## Scope of Application

L02

STABILIZE YOUR DOOH IN ALL WEATHER

## APPLICATION:

Fit for :

Commercial integrated mall

AIRPORTS

Public institution

Integrated public services

etc.

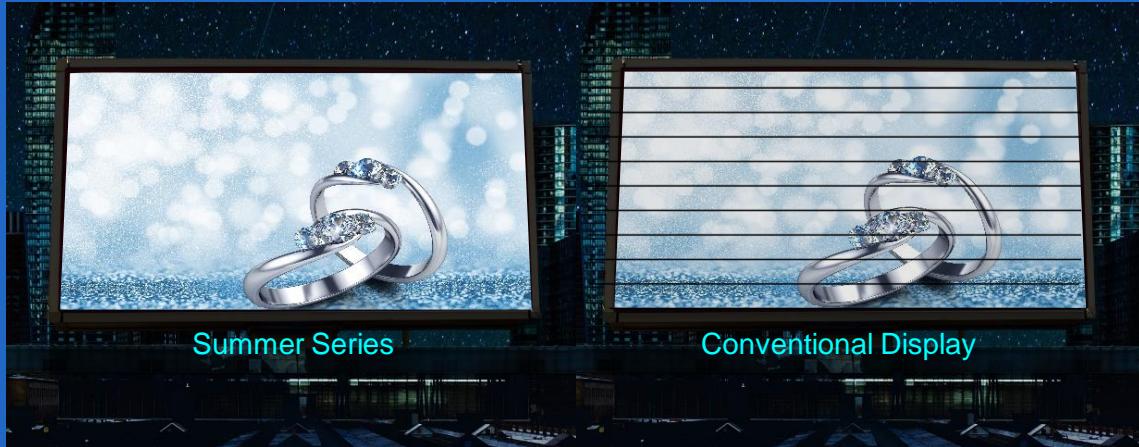


L03

STABILIZE YOUR DOOH IN ALL WEATHER

## Product Features

# Maximize Advertising Value with Glorious Image



8500-12000nits brightness



14bit gray scale



3840Hz-7680 refresh rate



P4/6.6/10 available



Higher contrast\*

Summer Series can provide premium images with up to 10000 nits of brightness, which is more sparkle than others in any environment, maximize the value of your advertising content and attracting passers-by.

\*Optional

Ultra viewing angle, Strengthen advertising value



Viewing angle **H: 160° V: 110°**,  
bigger viewing angle to make sure a better viewing experience

# Good heat dissipation

## Efficient Heat Dissipation With Multiple Special Design



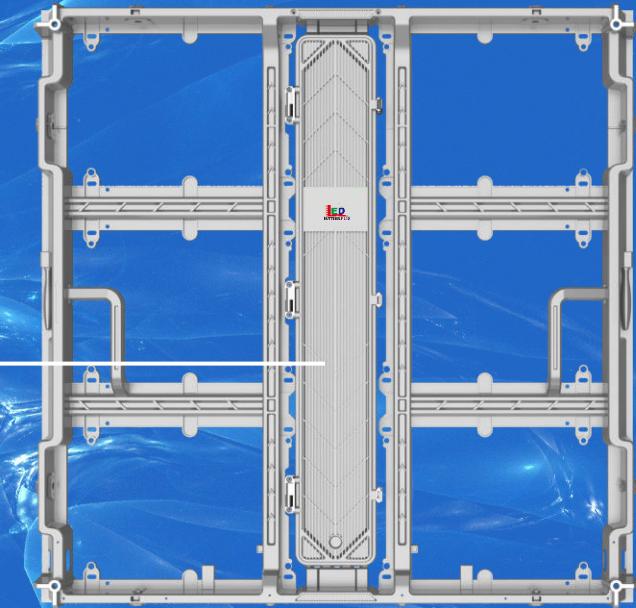
Fully-hollowed cabinet design with large air convection area



Die-casting aluminum module back shell



Thermal conductive adhesive



# Good heat dissipation



**sunny**



Less heat absorption: Special coating materials to make sunlight reflect stronger



Temperature 15°C lower than traditional black cabinets

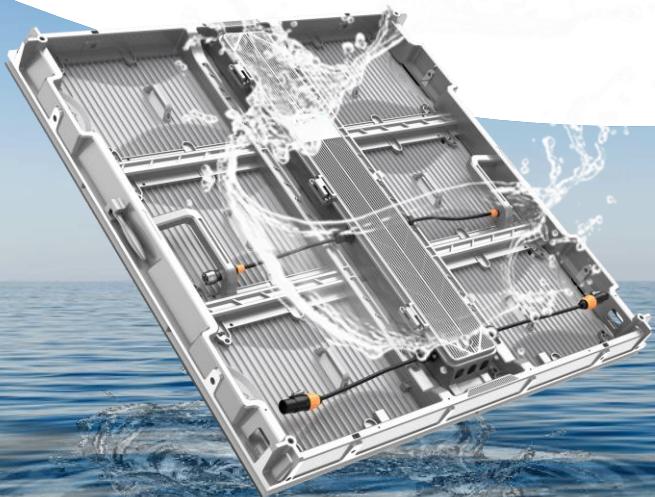


Temperature 6°C lower than traditional white cabinets

# Superior Waterproof Performance-IP66

Seamless design that withstands any weather and environment with IP66 protection

## IP66 Test\*



Water temperature:  $80^{\circ}\text{C}\pm5^{\circ}\text{C}$



Water pressure:  $80\sim100$  bar



Water flow rate:  $100\pm5\text{L/min}$



Water spray distance:  $2.5\sim3\text{m}$



Water spraying angle:  $0^{\circ}, 30^{\circ}, 60^{\circ}, 90^{\circ}$

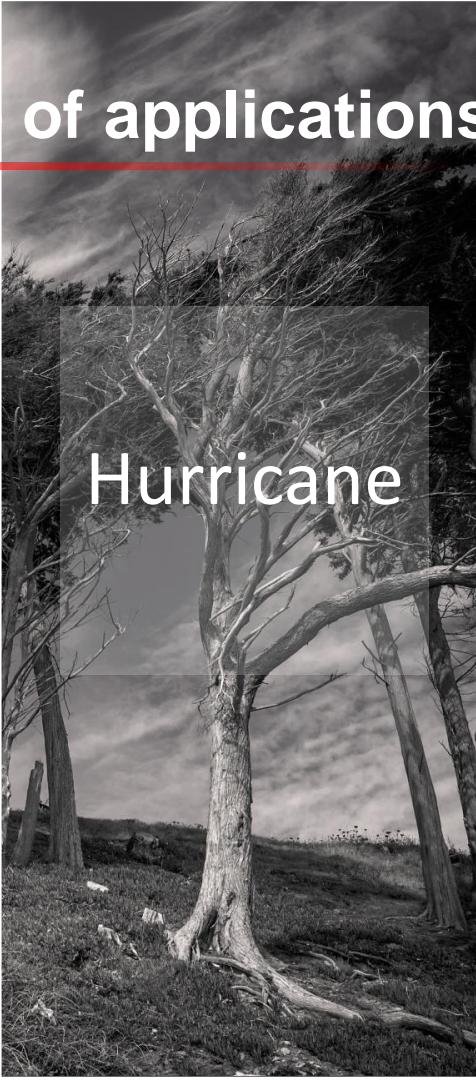


Water spraying time: 30 seconds per angle

# Wide range of applications



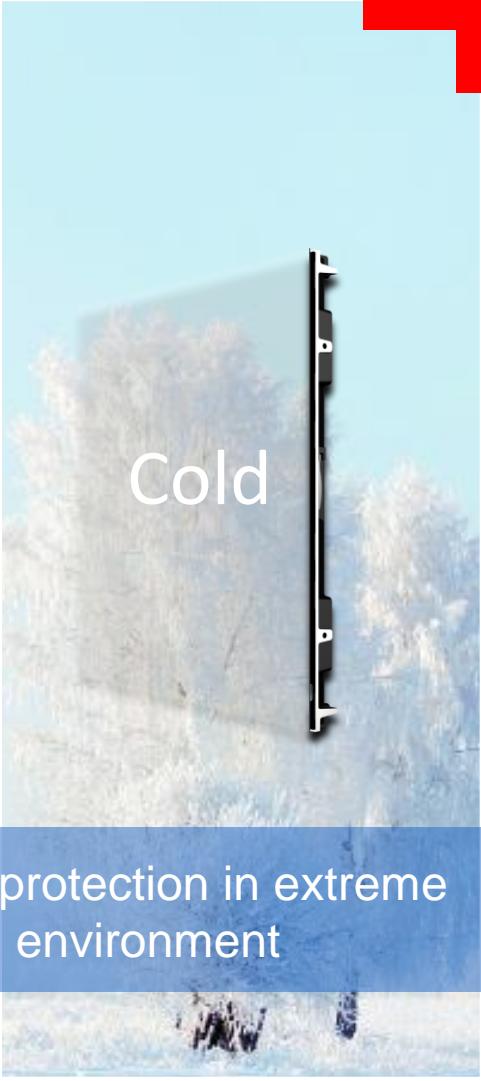
Rain



Hurricane



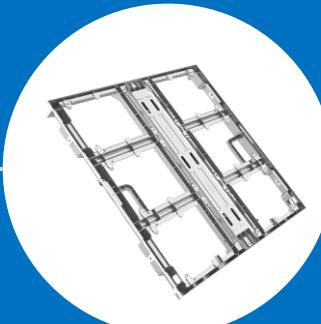
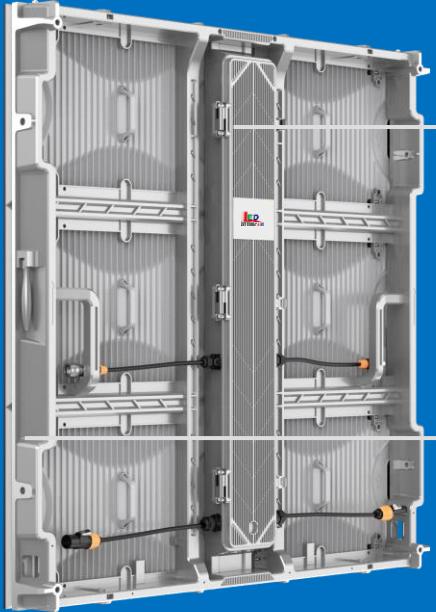
Heat



Cold

Stable protection in extreme environment

# Ultra Light & Slim Cabinet



Die-casting aluminum frame, light and robust



- The cabinet weight is  $\leq 25\text{kg}/\text{panel}(960\times 960\text{mm})$
- Cabinet thickness: 91mm(Include module)

Summer Series is a lightweight and slim solution, enabling single-person installation and maintenance, reducing labor and shipment costs



# die-cast aluminum cabinet

## Al profile



### Poor structural strength

Profile aluminum cabinets are spliced together using separate frames, not one-piece forming, and the structural strength of the joints is insufficient.

### Poor flatness

Splicing molding, processing accuracy is insufficient, flatness error is greater than 0.7mm

### Unchanged installation and handling

Cabinets are designed without handles, making installation and handling inconvenient

## die-casting



### Excellent structural strength

Die-cast cabinets molded in one piece for better structural strength

### Better flatness

Die-casting cabinet using CNC technology, processing precision is higher, flatness can be maintained below 0.3mm

### Lightweight panel

Lightweight cabinets reduce the amount of steel used. Reduced transportation costs and ease of installation

## sheet metal



### Easily corroded

Iron rusts easily in outdoor environments, leading to malfunctions

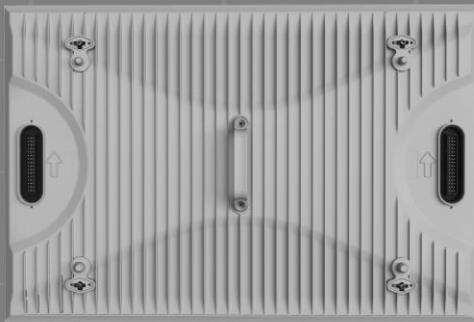
### Poor flatness

Sheet metal box body processing process to increase the error, flatness  $\geq 0.7\text{mm}$

### overweight

weights  $\geq 32\text{kg/panel}$ , Requires more mounting steel tubing, higher installation costs, heavier weight, increased transportation costs

# Module



01

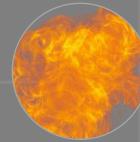
Compatible with both  
right & left modules



Module handler



4pcs knobs /module,Can withstand 21.94kg  
pulling force without breakage



Fire prevention

02

Fully-waterproof design

03

Elegant metal module back shell

# die-cast aluminum bottom case



## plastics bottom case

deformable

waterproofing  
IP65

Easily cracked

flammable



## die-cast aluminum bottom case

**non-deformable**

**waterproofing  
IP66**

**non-cracking**

**non-flammable**



## General Module bottom case

deformable

non-waterproof

Easily cracked

flammable



structural strength



protective



durability



safety performance

Die-cast aluminum bottom case have better protection and stability than traditional plastic bottom case. More suitable for use in harsh outdoor environments

# Front Maintenance

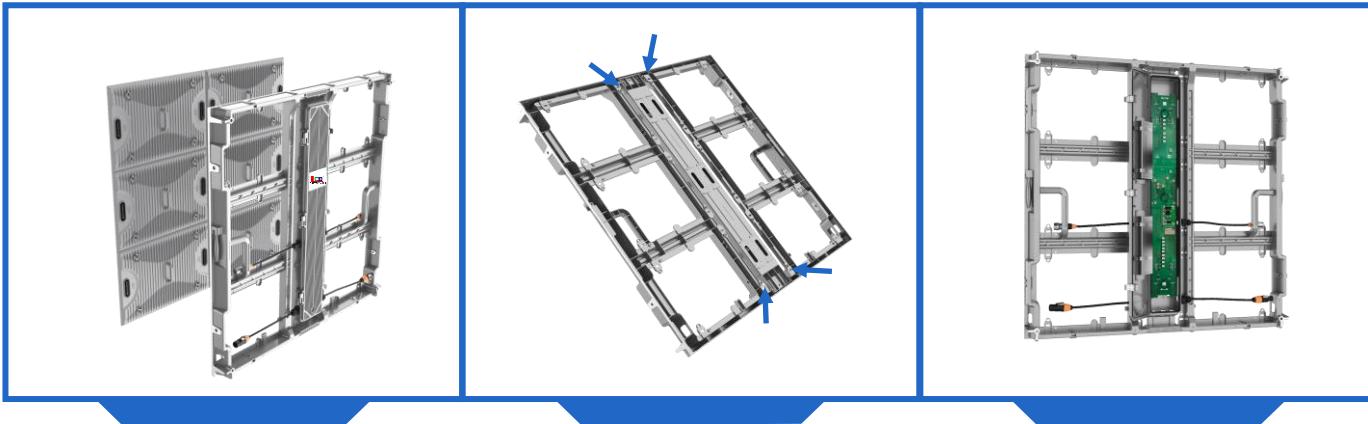


Professional  
maintenance tool

Unlock modules  
anticlockwise

Remove modules

# Front Maintenance



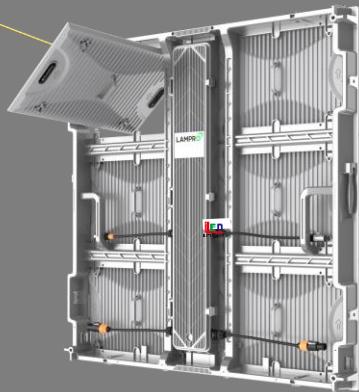
Remove modules

Loosen the set screws

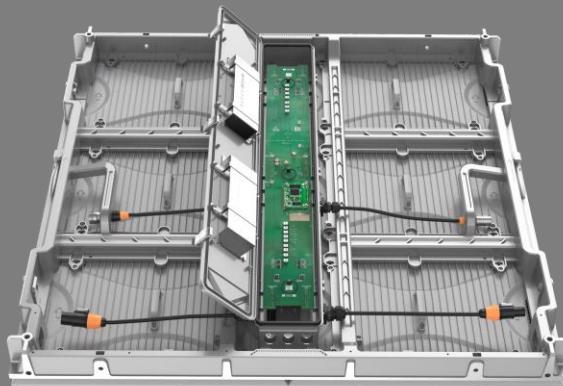
Open the latch and  
maintain the control box

# Rear Maintenance

Unlock module back with professional tool, disassemble module for back maintenance.



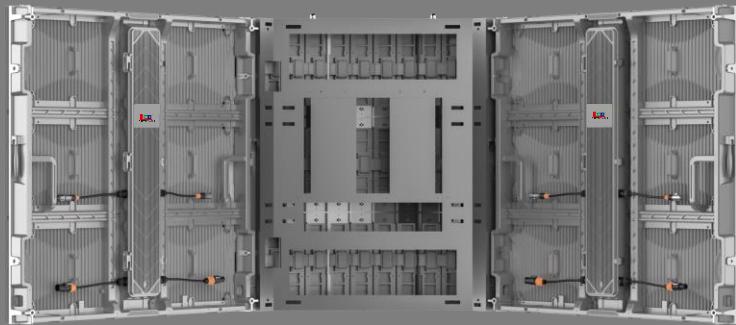
Disconnect power, open locks on back cover, to maintain power supply, receiver & hub



# Right Angle Solution



Right Angle Solution



Right Angle Solution



## Product Specification

L04

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Parameter	Value			
Model	Summer 4	Summer 6	Summer 8	Summer 10
Pixel Configuration	SDM1921	SMD2727	SMD2727	SMD2727
Pixel Pitch (mm)	4	6.67	8	10
Pixel matrix per panel	240*240	144*144	120*120	96*96
Pixel density (pixels/sq.m.)	57600	22500	15625	10000
Cabinet Dimensions (WxHxD)/(mm)	960x960x91			
Module Dimensions (WxH)/(mm)	480X320			
Cabinet weight (kg/panel)	25			
Color Grayscale (Bit)	14bit			
Gray Scale per Color (level)	16384			
Refresh Rate (Hz)	3840-7680			
Brightness (nits)	7500-8500	8500-10000	10000-11000	10000-12000
Optimal Horizontal Viewing Angle (°)	140	160	140	150
Optimal Vertical Viewing Angle (°)	Up60/Down60	Up50/Down60	Up50/Down60	Up50/Down60
Contrast ratio	5000-6500:1	5500-10000:1	5500-10000:1	8400-14000:1
AC Input Power Maximum Value (W/m <sup>2</sup> )	650-700	640-750	600-710	600-710
AC InputPower Typical Value (W/m <sup>2</sup> )	217-233	213-250	200-240	200-240
Storage Temperature (°C)	-40-80			
Working Temperature (°C)	-20-50			
IPRating (Front/Rear)	IP66			
Storage Humidity (RH)	10%~90%non-condensing			
Working Humidity (RH)	10%~90%non-condensing			
Lifetime Typical Value (hrs)	100000			

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