HIKVISION®

HIKVISION 5TH GENERATION
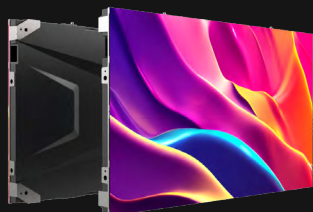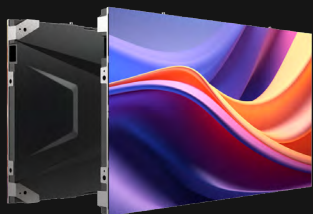# LED CABINET

Brighten Every Moment

Unified Structure
compared with *3 types* of lamp boards

• Ultra Series
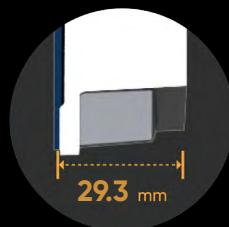**COB**

• Solid Plus Series
HOB

• Solid Series
SMD

Advanced Industrial Design

01/ Superior Cabinet & Convenient Splicing

SUPER SLIM

29.3 mm
super slim design for elegant appearance and easy installation

29.3 mm

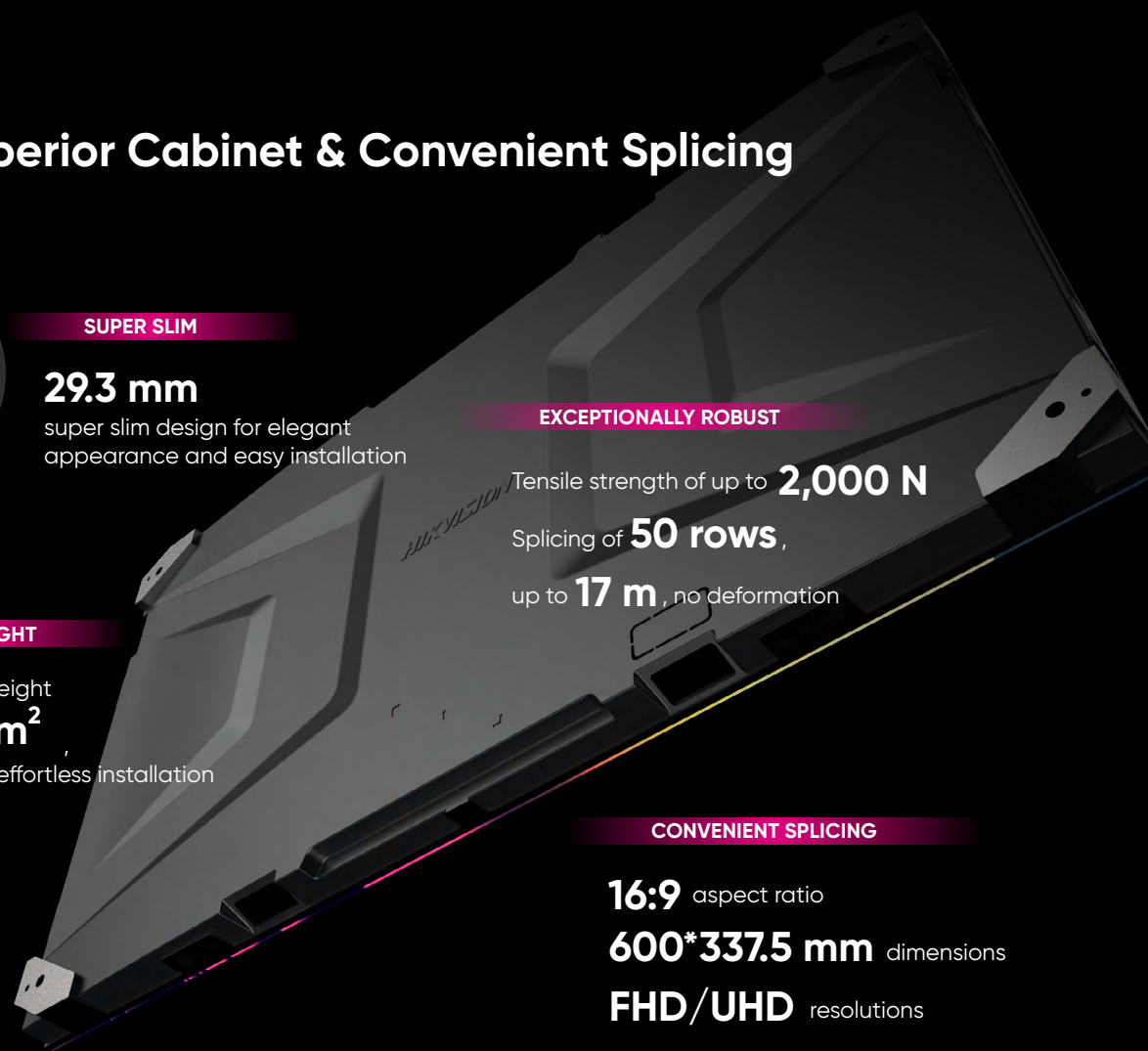**EXCEPTIONALLY ROBUST**

Tensile strength of up to **2,000 N**

Splicing of **50 rows**,

up to **17 m**, no deformation

ULTRA LIGHT

Ultra lightweight
17 Kg/m^2,
facilitating effortless installation

CONVENIENT SPLICING

16:9 aspect ratio

600*337.5 mm dimensions

FHD/UHD resolutions
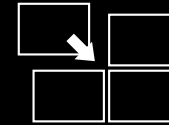
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02/ **Big Board**

FLATTER SPLICING

Larger lamp boards and fewer seams for flatter and more accurate splicing

EASIER INSTALLATION

Fewer lamp boards make installation quicker and easier

REDUCED LAMP DROPPING

Few lamp boards result in a lower occurrence of lamp bead dropping during installation

03/ Flexible Wiring

supports cascading both horizontally and
vertically, saving wiring costs.

Horizontal Power
& Network Cable

Vertical Power &
Network Cable
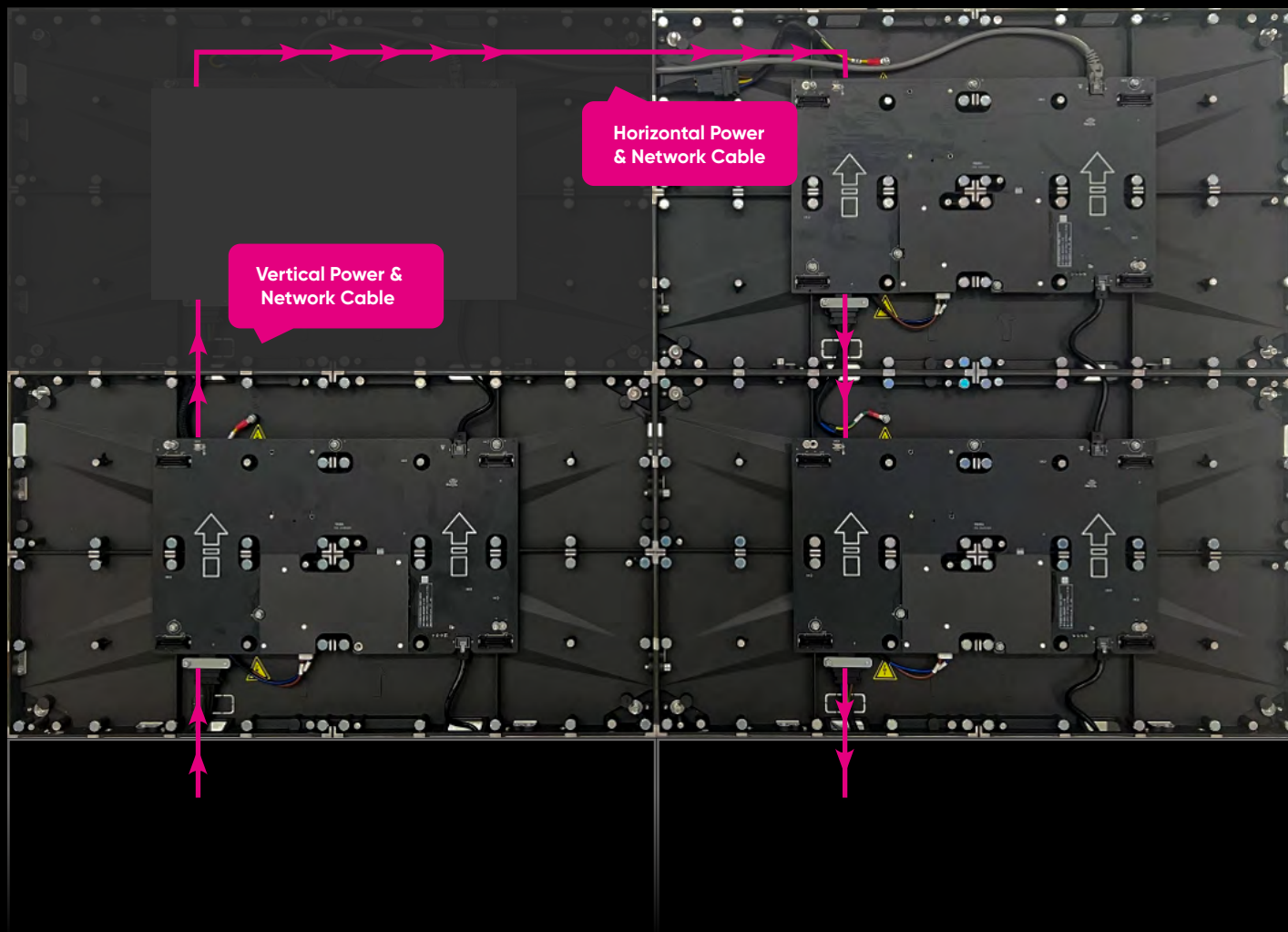
04/ Removable Back Frame Plate

Knock off the plate to pass power and network cables through the hole, preventing tangled cords at the screen bottom.

REMOVABLE BACK FRAME PLATE
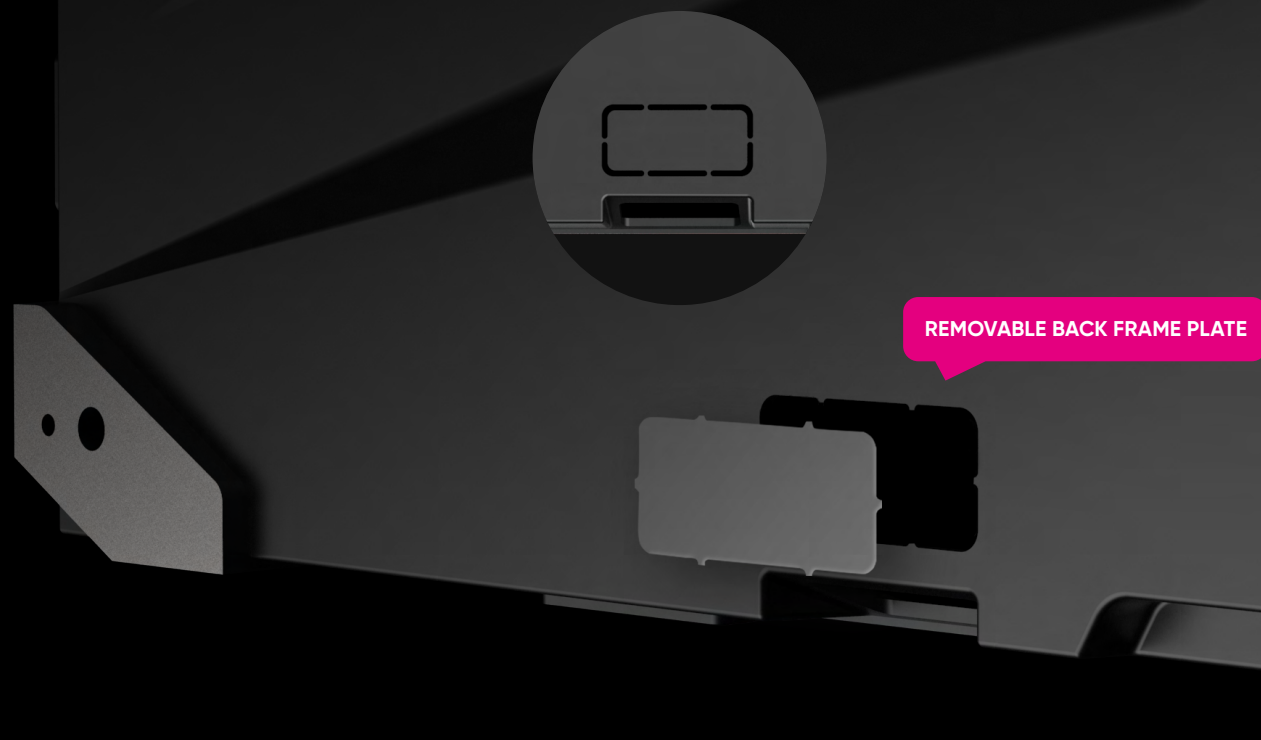
Ultra Series - COB

COB technology simplifies LED structure by directly connecting the LED chip to the PCB, improving display performance and enhancing product protection through resin encapsulation.

Epoxy Resin
LED Chip
PCB

01 / Single-Cabinet Calibration

Calibration is performed on a single cabinet, yet ensuring color consistency when assembled into a large screen.

COB

ADVANTAGES

- Easy installation of cabinets and lamp boards in any desired position
- No additional calibration required when replacing spare lamp boards
- Facilitating flexible warehousing and maintenance

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02/ **Flip-Chip COB**

ADVANTAGES

True-to-life Display Performance
High contrast, low glare, expansive color gamut, and high color consistency with image denoising

Lower Power Consumption
Without leads, no energy is wasted on them
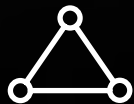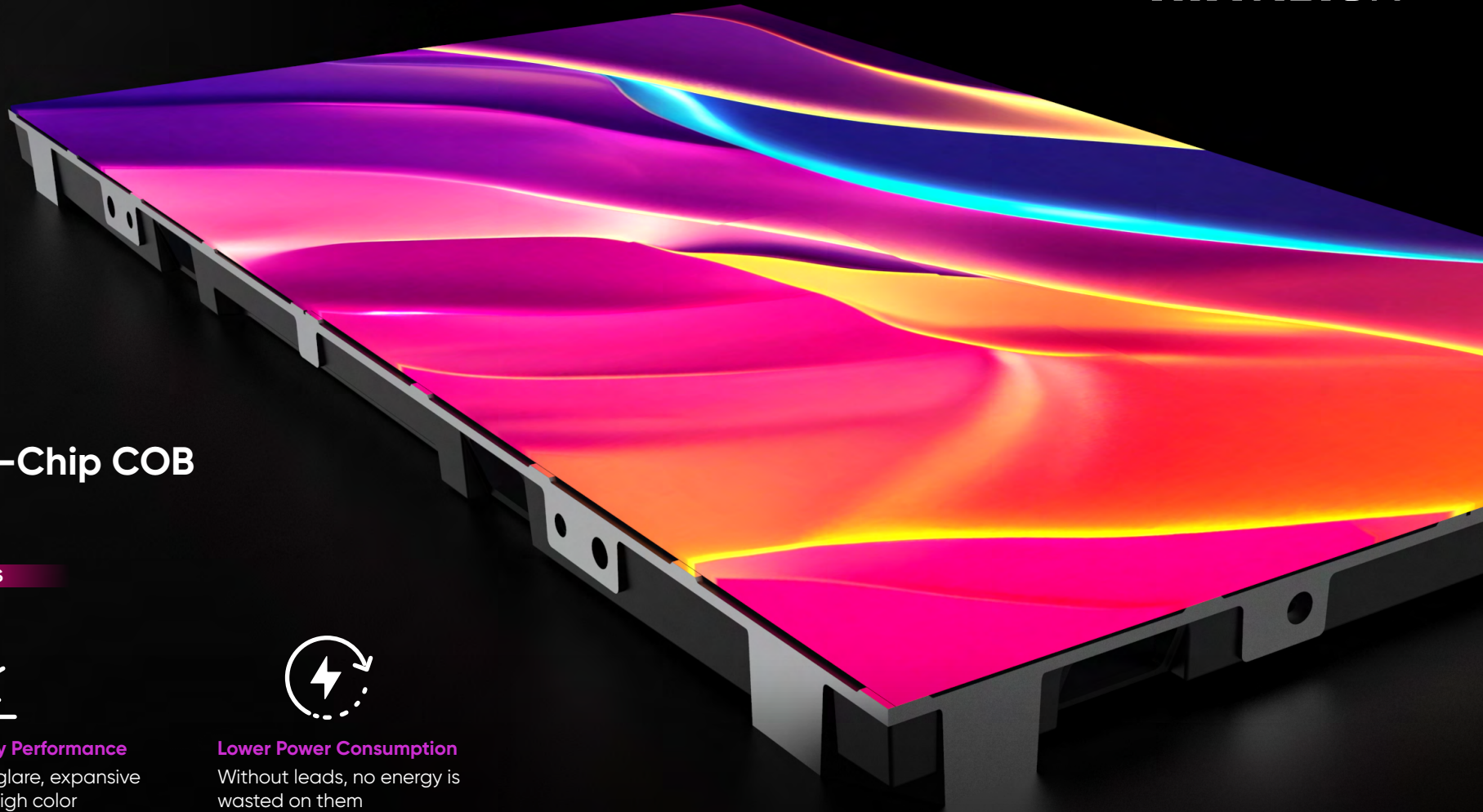
Superior Stability
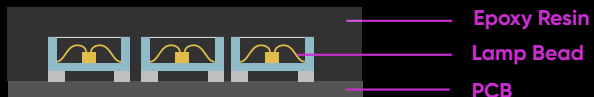Without leads, no risk of oxidation and lower pixel failure rate

High Protection & Stable Operation
Moisture resistance, anti-collision capability, and IP65 protection, with no exposed pins or risk of static damage

Solid Plus Series - HOB

HOB applies a glue layer onto the surface of SMD, enhancing the durability and protection of LEDs.

Epoxy Resin
Lamp Bead
PCB

HOB

ADVANTAGES

Higher Protection Level
Enhanced resistance against water, moisture, corrosion, dust, static, and oxidation

Better Visual Performance
• A matte screen to alleviate eye strain
• Increased contrast ratio
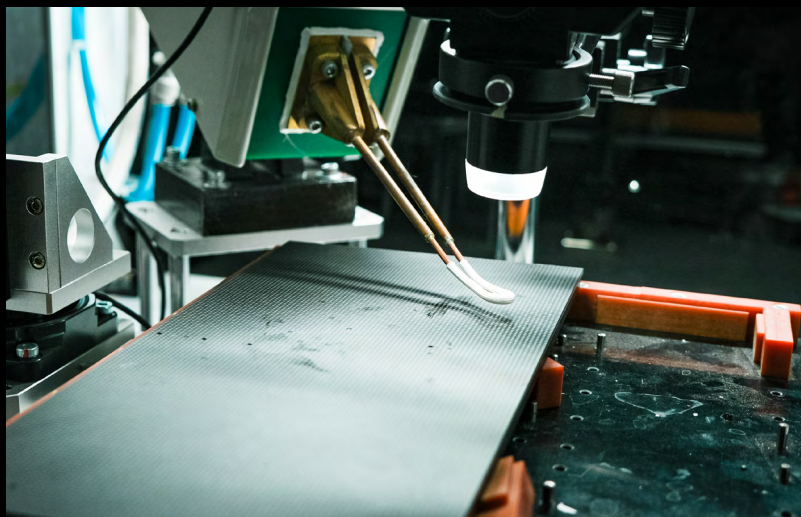
Repairing LED lamps has always posed challenges for HOB products due to the glue layer on the lamp board surface. Now, Hikvision introduces an HOB LED lamp repair machine to address this issue.

It streamlines HOB lamp board repairs for enhanced efficiency by assisting in dead LED identification, replacement, and protective coating reapplication after new LED installation.

Configurations in Full HD and 4K
Example applications

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P 1.8 324"

P 1.5 270"

P 1.2 216"

P 1.8 162"   P 0.9 162"

P 1.5 135"

P 1.2 108"

P 0.9 81"

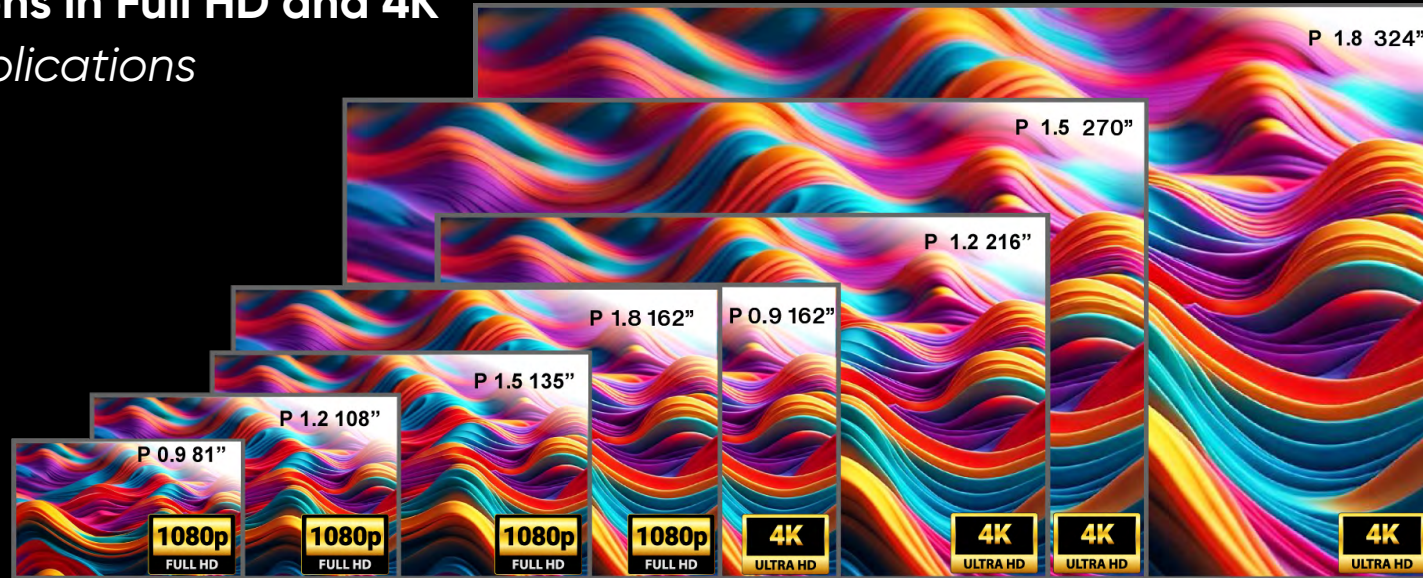| Resolution | Pixel pitch (mm) | Lamp series | | | LED package options | | | |
| | | Solid | Solid Plus | Ultra | | | | |
		SMD	HOB	COB	Inch	Numbers (Units)	Size in mtr	LED Controllers
1080p FULL HD	P0.9			√	81"	3x3	1.80x1.01	Hikvison P series DS-DT60P-02HI04NO
	P1.2	√	√	√	108"	4x4	2.40x1.35	
	P1.5	√	√	√	135"	5x5	3.00x1.69	
	P1.8	√	√		162"	6x6	3.60x2.03	
4K ULTRA HD	P0.9			√	162"	6x6	3.60x2.03	Hikvision P series DS-DT60P-02HDI20NO/U
	P1.2	√	√	√	216"	8x8	4.80x2.70	
	P1.5	√	√	√	270"	10x10	6.00x3.38	
	P1.8	√	√		324"	12x12	7.20x4.05	

These are examples of configurations that can be made with the Hikvision 5th gereation cabinets.
Ask your local dealer for a customised quote to suit your application.

Solid Series - SMD

SMD applies soldering individual LED lamps onto a PCB, representing the most mature and widely adopted technology in the industry.

Lamp Bead

PCB

SMD applies soldering individual LED lamps onto a PCB, representing the most mature and widely adopted technology in the industry.

SMD

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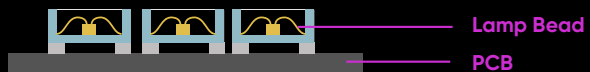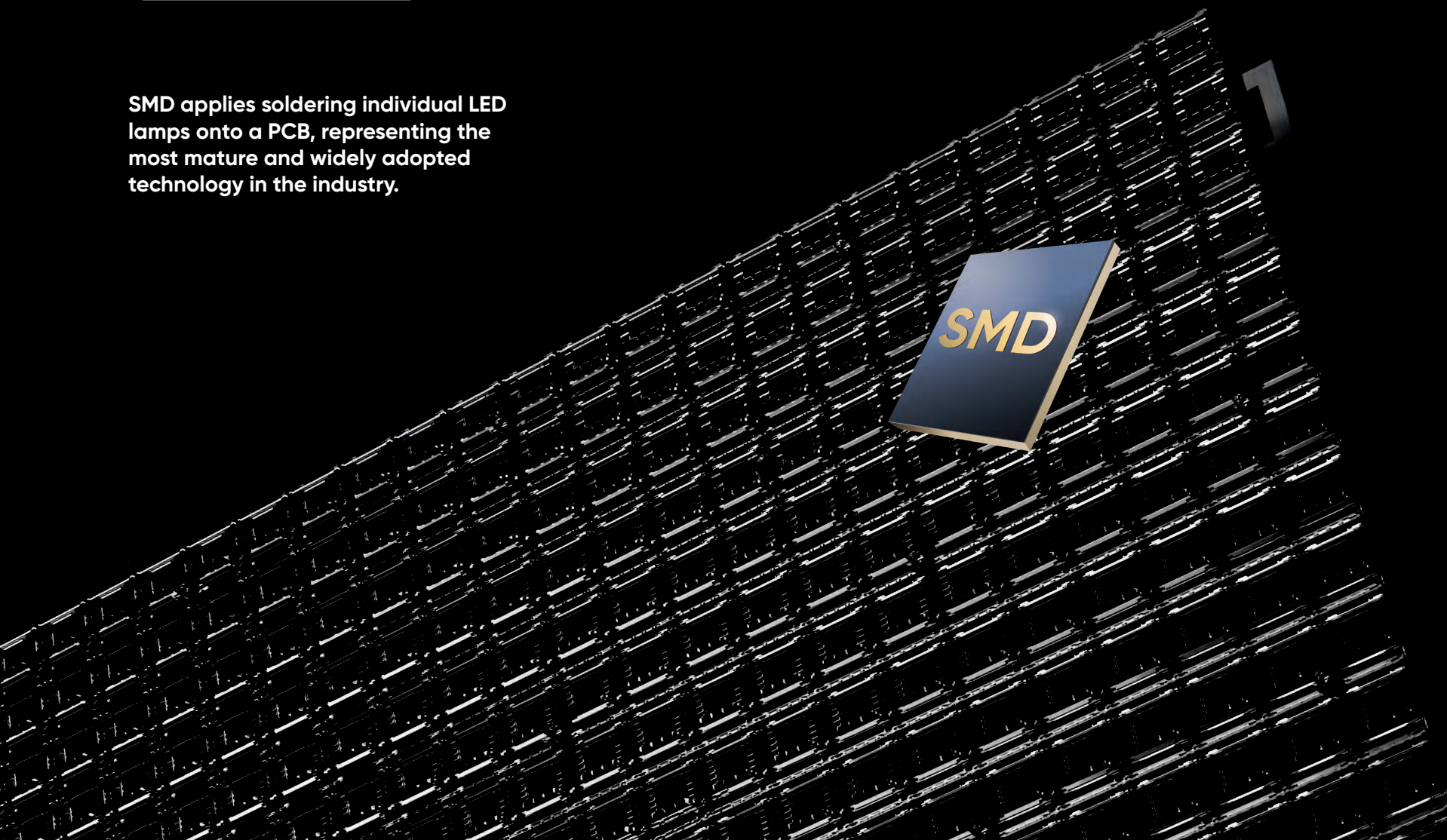
01 / Top Brand LED Lamp

Higher Brightness
Higher lighting efficiency boosts maximum brightness

Lower Pixel Failure Rate
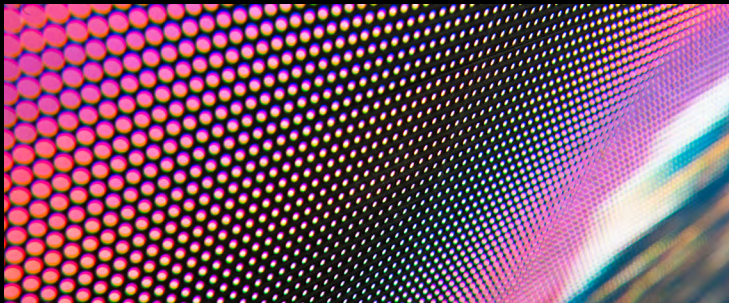Reliable airtightness reduces oxidation, minimizing open circuits and dead pixels

02 / Cold Screen

Flip-Chip & Energy-Saving
Reduces energy use by over 55% and lowers surface temperature by 30%

Cool Experience
-Surface temperature decreases by 30%
-Nearby air temperature drops by 20°C

Longer Product Life
Lower chip temperature extends the product life and reduces color deviation

Lower Pixel Failure Rate
Eliminating bonding wires reduces lamp failure rates by 80%

Ecosystem of Hikvision
LED Controllers

Self-Developed
LED Controller

Self-Developed
Receiving Card

Self-Developed
Management Software

01
One Device Supports Three Functions

- Screen setup
- Remote information release
- Multi-signal input and splicing

02
Management Platform

The HikCentral FocSign software supports configuration, program editing, device monitoring and signal source management on an integrated platform.

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03 / Precise Display

- Point-by-point brightness and color calibration
- HDR10 display
- Fine grayscale enabled by the intelligent image algorithm
- 22bit+ for significant grayscale enhancement
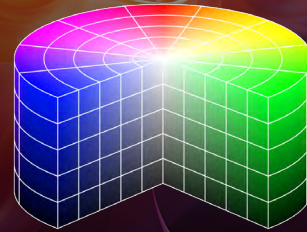
04 / Dynamic Eye Protection and Energy Saving

After processing with the intelligent image algorithm, the brightness matches the LED display accurately, enhancing contrast ratio while reducing power consumption for a more comfortable viewing experience.

Original Image Input

Presented with Max. Brightness

Processed by Intelligent Image Algorithm

Application

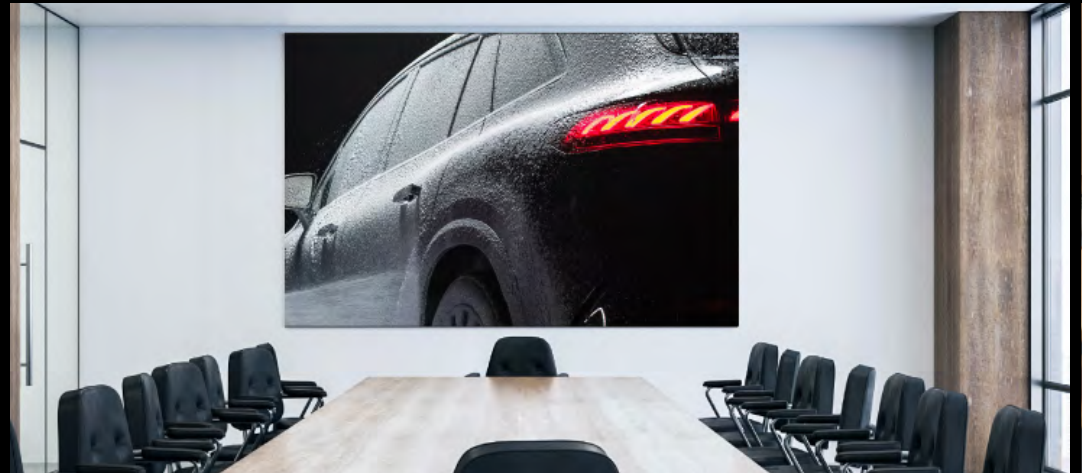## Command Center

Integrating video, storage, display, and control, ensuring information security in critical monitoring environments with Hikvision KVM and distributed splicing control systems.

Meeting Room

Adopting standard aspect ratios and energy-efficient cold screens for a comfortable meeting environment. You can easily manage meetings with just one click.

Auditorium & Lecture Hall

Ensuring LED cabinets are protected from moisture and collisions, while HOB stands strong against props rubbing during stage performances.

Studio

Delivering precise and detailed broadcasting effects with HDR10 signals, ultra-wide color gamut, high refresh rates, and supports creative installations like curved screens.
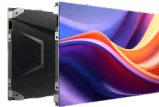
Retail Store & Cinema

Featuring recommended cabinets for exquisite display and protection against collisions, spills, and stains.

PRODUCT SHOWCASE

Model		DS-D4009BW-2FC	DS-D4012BW-2FC	DS-D4015BW-2FC
Image				
Module	Pixel Structure	Flip-chip COB	Flip-chip COB	Flip-chip COB
	Pixel Pitch (mm)	0.9375	1.25	1.5625
	Module Composition (W × H)	2 × 2	2 × 2	2 × 2
Cabinet	Cabinet Dimension (W × H × D, mm)	600 × 337.5 × 29.3 (23.622" × 13.287" × 1.154")	600 × 337.5 × 29.3 (23.622" × 13.287" × 1.154")	600 × 337.5 × 29.3 (23.622" × 13.287" × 1.154")
	Cabinet Resolution (W × H)	640 × 360	480 × 270	384 × 216
	Cabinet Weight	3.4 Kg(7.496 lb)	3.4 Kg(7.496 lb)	3.4 Kg(7.496 lb)
	Pixel Density (dots/m²)	1,137,777	640,000	409,600
	Cabinet Material	Aluminium die casting	Aluminium die casting	Aluminium die casting
	Maintenance Method	Front maintenance for all components	Front maintenance for all components	Front maintenance for all components
	Protection Level	IP65 (Module)	IP65 (Module)	IP65 (Module)
Optical	Brightness (nits)	600	600	600
	Color Temperature (K)	3000-10000 K adjustable	3000-10000 K adjustable	3000-10000 K adjustable
	Viewing Angle	160°(H)/160°(V)	160°(H)/160°(V)	160°(H)/160°(V)
	Contrast Ratio	15000:1	15000:1	15000:1
Electrical	Peak Consumption (W/m²)	≤ 360	≤ 300	≤300
	Average Consumption (W/m²)	≤ 120	≤ 100	≤ 100
Processing Performance	Frame Rate (Hz)	60	60	60
	Refresh Rate (Hz)	3,840	3,840	3,840
	Grey Level (bit)	16	16	16

Model	DS-D4012CW-2FQ	DS-D4015CW-2FQ	DS-D4018CW-2FQ	DS-D4012NW-2F
Image				
Module				
Pixel Structure	HOB	HOB	HOB	SMD Triad LED with Top level lamp
Pixel Pitch (mm)	1.25	1.56	1.8	1.25
Module Composition (W × H)	2 × 2	2 × 2	2 × 2	2 × 2
Cabinet				
Cabinet Dimension (W × H × D, mm)	600×337.5×29.5 (23.622" × 13.287" × 1.161")	600×337.5×29.5 (23.622" × 13.287" × 1.161")	600×337.5×29.5 (23.622" × 13.287" × 1.161")	600×337.5×29.5 (23.622" × 13.287" × 1.161")
Cabinet Resolution (W × H)	480 × 270	384 × 216	240 × 136	480 × 270
Cabinet Weight	3.4 Kg(7.496 lb)	3.4 Kg(7.496 lb)	3.4 Kg(7.496 lb)	3.4 Kg(7.496 lb)
Pixel Density (dots/m²)	640,000	409,600	161,185	640000
Cabinet Material	Aluminium die casting	Aluminium die casting	Aluminium die casting	Aluminium die casting
Maintenance Method	Front maintenance for all components	Front maintenance for all components	Front maintenance for all components	Front maintenance for all components
Protection Level	IP65 (Module)	IP65 (Module)	IP65 (Module)	IP60 (Front)
Optical				
Brightness (nits)	600	600	600	800
Color Temperature (K)	3000-10000 K adjustable	3000-10000 K adjustable	3000-10000 K adjustable	3000-10000 K adjustable
Viewing Angle	160°(H)/160°(V)	160°(H)/160°(V)	160°(H)/160°(V)	160°(H)/160°(V)
Contrast Ratio	3000:1	3000:1	3000:1	3000:1
Electrical				
Peak Consumption (W/m²)	≤ 460	≤ 390	≤ 400	≤ 460
Average Consumption (W/m²)	≤ 160	≤ 130	≤ 140	≤ 160
Processing Performance				
Frame Rate (Hz)	60	60	60	60
Refresh Rate (Hz)	3,840	3,840	3,840	3,840
Grey Level (bit)	16	16	16	16

Model	DS-D4015NW-2F	DS-D4012CW-2F	DS-D4015CW-2F	DS-D4018CW-2F
Image				
Module Pixel Structure	SMD Triad LED with Top level lamp	SMD triad LED	SMD triad LED	SMD triad LED
Pixel Pitch (mm)	1.56	1.25	1.56	1.8
Module Composition (W × H)	2 × 2	2 × 2	2 × 2	2 × 2
Cabinet Cabinet Dimension (W × H × D, mm)	600×337.5×29.5 (23.622" × 13.287" × 1.161")	600×337.5×29.5 (23.622" × 13.287" × 1.161")	600×337.5×29.5 (23.622" × 13.287" × 1.161")	600×337.5×29.5 (23.622" × 13.287" × 1.161")
Cabinet Resolution (W × H)	384 × 216	480 × 270	384 × 216	240 × 136
Cabinet Weight	3.4 Kg(7.496 lb)	3.4 Kg(7.496 lb)	3.4 Kg(7.496 lb)	3.4 Kg(7.496 lb)
Pixel Density (dots/m²)	409,600	640,000	409,600	161,185
Cabinet Material	Aluminium die casting	Aluminium die casting	Aluminium die casting	Aluminium die casting
Maintenance Method	Front maintenance for all components	Front maintenance for all components	Front maintenance for all components	Front maintenance for all components
Protection Level	IP60 (Front)	IP60 (Front)	IP60 (Front)	IP60 (Front)
Optical Brightness (nits)	800	600	600	600
Color Temperature (K)	3000-10000 K adjustable	3000-10000 K adjustable	3000-10000 K adjustable	3000-10000 K adjustable
Viewing Angle	160°(H)/160°(V)	160°(H)/160°(V)	160°(H)/160°(V)	160°(H)/160°(V)
Contrast Ratio	3000:1	3000:1	3000:1	3000:1
Electrical Peak Consumption (W/m²)	≤ 390	≤ 460	≤ 390	≤ 400
Average Consumption (W/m²)	≤ 130	≤ 160	≤ 130	≤ 140
Processing Performance Frame Rate (Hz)	60	60	60	60
Refresh Rate (Hz)	3,840	3,840	3,840	3,840
Grey Level (bit)	16	16	16	16

Model	DS-DT60P-02HI04N0	DS-DT60P-02HI06N0	DS-DT60P-02HDI12N0/U	DS-DT60P-02HDI20N0/U
Image				

		DS-DT60P-02HI04N0	DS-DT60P-02HI06N0	DS-DT60P-02HDI12N0/U	DS-DT60P-02HDI20N0/U
Interface	Video & Audio Input	2 × HDMI 1.4 + 1 × DVI + 1 × embedded Android & 2 × HDMI 1.4 + 1 × embedded Android	2 × HDMI 1.4 + 1 × DVI + 1 × embedded Android & 2 × HDMI 1.4 + 1 × embedded Android	1 × HDMI 2.0 + 1 × DVI + 1 × embedded Android & 1 × HDMI 2.0 + 1 × embedded Android	1 × HDMI 2.0 + 1 × DVI + 1 × embedded Android & 1 × HDMI 2.0 + 1 × embedded Android
	Video & Audio Output	1 × HDMI 1.4 & 1 ×3.5 mm	1 × HDMI 1.4 & 1 ×3.5 mm	1 × HDMI 1.4 & 1 ×3.5 mm	1 × HDMI 1.4 & 1 ×3.5 mm
	Network Interface	4	6	12	20
	Control Interface	2 × RJ45, 1 × IR Input,2 × Serial Interface	2 × RJ45, 1 × IR Input,2 × Serial Interface	2 × RJ45, 1 × IR Input,3 × Serial Interface	2 × RJ45, 1 × IR Input,3 × Serial Interface
Processing Performance	Max. Load Capacity	Max. 2.6 MP, width 320 - 32760 pixels, height 64 - 5120 pixels	Max. 3.9 MP, width 320 - 32760 pixels, height 64 - 5120 pixels	Max. 7.8 MP, width 320 - 32760 pixels, height 64 - 8192 pixels	Max. 13 MP, width 320 - 32760 pixels, height 64 - 8192 pixels
	Frame Frequency (Hz)	25 - 120 Hz	25 - 120 Hz	25 - 120 Hz	25 - 120 Hz
	Refresh Rate (Hz)	3840	3840	3840	3840
	Processing Depth (bit)	8	8	8	8
	Grey Level (bit)	256	256	256	256
	Brightness Control	1 to 100 levels adjustable	1 to 100 levels adjustable	1 to 100 levels adjustable	1 to 100 levels adjustable
	Average Consumption (W)	≤16.5	≤16.5	≤ 42	≤ 45
General	Product Dimensions (W × H × D, mm)	210 × 42 × 180 (8.27" × 1.65" × 7.08")	210 × 42 × 180 (8.27" × 1.65" × 7.08")	440 × 44.5 × 320.8 (17.32" × 1.75" × 12.63")	440 × 44.5 × 320.8 (17.32" × 1.75" × 12.63")
	Weight	1.03 Kg (2.27 lb)	1.05 Kg (2.31 lb)	3.369 Kg (7.43 lb)	3.30 Kg (7.28 lb)
Special Features		Support multiple input signals simultaneous display, and video wall management functions,digital signage function	Support multiple input signals simultaneous display, and video wall management functions,digital signage function	Support multiple input signals simultaneous display, and video wall management functions,digital signage function	Support multiple input signals simultaneous display, and video wall management functions,digital signage function

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