



# Brighten Every Moment

Hikvision LED Displays 2022 H2

**HIKVISION**<sup>®</sup>





# Who is Hikvision?

## Our Mission and Vision

Hikvision is an IoT solution and big data service provider with video as its core competency

### Vision

Empower vision for the security and sustainable growth of the world.

### Mission

To explore innovative ways to better perceive and understand the world.  
To empower vision for decision-makers and practitioners, and work together to enhance safety and advance sustainable development around the world.

# Hikvision At a Glance

Compound growth rate from 2010 to 2020 **33.21%**



Total revenue in 2020 **\$9.20B**



International subsidiaries and branch offices

**66**

**100,000+**

Partners globally

Countries and regions using our products

**150+**

**2001**

Year founded



**19+**

Years steady growth



**42,000+**

Employees worldwide



**20,000+**

R&D engineers



**Over 10%**

Annual revenue invested in R&D





# Hikvision LED Displays

- Functions and Highlights
- Indoor LED
- Outdoor LED
- Rental LED
- Transparent LED Displays
- LED Controller
- Accessories
- Control System



# Hikvision LED Development History

· Entered the LED industry and explored fine pitch LED

2013

· Launched P1.2 fine pitch LED  
· Landed the first large-scale P1.2 case in the industry

2015



2018

· Fine-pitch LED ranks among the top 3 in China  
· Launched COB LED  
· Developed auto-dehumidification and remote control functions, leading the LED industry to pay more attention to user experience

2021

· Entered the distribution LED market  
· Launched P0.7/P0.9 mini LED

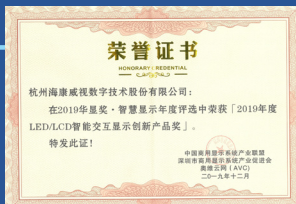
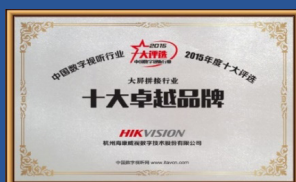
2019

· LED annual sales exceeded 400M\$  
· Mini LED grows rapidly



## Remarkable Performance, Outstanding Reliability

The commercial display line is a true embodiment of industry-leading quality that Hikvision is proud of, offering an unrivalled visual experience to our customers. *Hikvision has won the Product Innovation Prize for Smart Interactive LED/LCD Displays in 2019 and the Brilliant Brand of 2018 High-Precision Seamless Splicing LEDs and been listed among Ten of the Most Brilliant Brands in the splicing LED industry in 2019.*



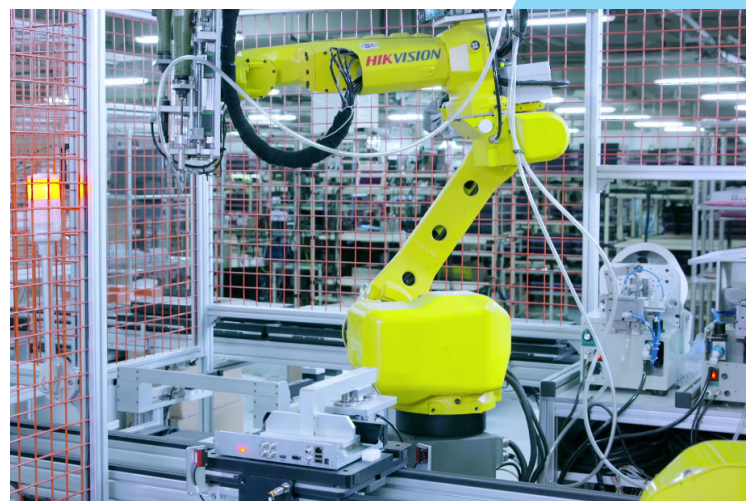
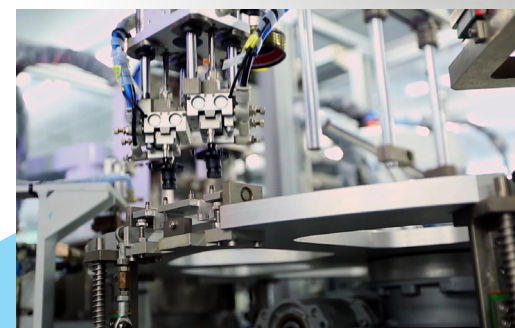
## Manufacturing Innovation

### 3 Manufacturing Bases in China

- Hangzhou: **100,000** m<sup>2</sup> (1 million sq. ft.)
- Tonglu: **580,000** m<sup>2</sup> (6.2 million sq. ft.)
- Chongqing: **10,000** m<sup>2</sup> (108,000 sq. ft.)

International Factories: India, Brazil

LED's monthly production capacity ( $\leq P2.5$  mm) exceeds **5,000 m<sup>2</sup>**







## Advanced Devices for Production

Smart  
Sorting  
Robot



A Smart logistics delivery system has long been in use at our manufacturing facilities.

Smart  
Warehouse  
Robot



Smart  
Carrying  
Robot

We use first-class automated SMT production lines to deliver the most highly standardized quality controls for sophisticated equipment manufacturing and assembly.





## ▶ Quality Control

### Quality Testing Center

Hikvision has always focused on product quality for the sake of our customers. With a testing laboratory of more than 13,000 m<sup>2</sup>, we ensure that all products meet global standards including UL / CUL / FCC / CE / CCC / C-tick / RoHS / WEEE / ISO, and more.



1

2

3

4

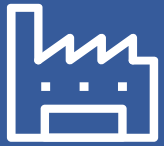
5

### Quality Management System Certificates

1. Quality Management System Certificate
2. Environmental Management System Certificate
3. Occupational health and safety management system certificate
4. Social Accountability International Standard
5. IECQ Certificate of Conformity Hazardous Substance Process Management



# Local Service Operations



## 2 Overseas Factories

- India
- Brazil



## Local Call Centers in 9 regions/countries

- Africa, North America, Oceania, Russia,
- India, Korea, UK, LATAM (Spanish), Brazil (Portuguese)



## Local Hikvision After-Sales Service Points in 15 Regions

USA, Canada, UK, Netherland, Russia, Turkey, Brazil, India, Korea, Indonesia, Singapore, Philippines, Malaysia, Dubai, and Hong Kong



## 100 Authorized Maintenance Service Partners covering 7 regions in more than 70 countries.

Asia, Africa, LATAM, Middle East, Russia, Oceania and Europe



# Brilliance in the Visuals

## 16:9 aspect ratio for common resolution

The standard structure simplifies splicing several screens together and enables easy installation and maintenance, supporting common 1080p and 4K resolution with equal proportions.



## Perfect display performance

With outstanding image rendering technology, you can rest assured that Hikvision's commercial displays bring you seamless, true-to-life images and video.

### Abundant Color



### No Ripples



### No Shadow



Resolution	Pixel pitch (mm)	Inch	Numbers (Cabinets)	Area
1080p	P0.9	81"	3×3	1.82 m <sup>2</sup>
	P1.2	108"	4×4	3.24 m <sup>2</sup>
	P1.5	136"	5×5	5.06 m <sup>2</sup>
	P1.8	163"	6×6	7.29 m <sup>2</sup>
	P2.5	217"	8×8	12.96 m <sup>2</sup>
	P3.0	260"	6×12	18.66 m <sup>2</sup>
4K	P0.9	162"	6×6	7.28 m <sup>2</sup>
	P1.2	216"	8×8	12.96 m <sup>2</sup>
	P1.5	272"	10×10	20.24 m <sup>2</sup>
	P1.8	326"	12×12	29.16 m <sup>2</sup>
	P2.5	434"	16×16	51.84 m <sup>2</sup>
	P3.0	520"	12×24	74.64 m <sup>2</sup>



## ▶ One-click color-temperature mode switching

Hikvision LED displays support one-click switching among multiple color-temperature modes to adapt to various scene applications.

### Standard color mode



### Warm color mode



### Cold color mode



## ▶ Pix master for superior image processing

### Pix Master



### Enhanced details, clearly identifiable

Improving image clarity without loss of details, each detail is clearly identifiable

### Ordinary displays



Loss of detail, blurred image details



# Excellent Display Performance

## Image Enhancement



## Text Enhancement



Better image gloss



More obvious contrast



Better transparent view



Clearer image details



Better line display



More obvious contrast

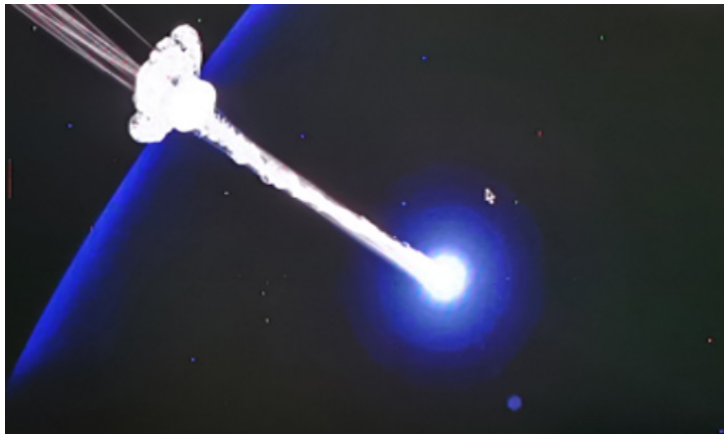


De-aliasing algorithm

# Excellent Display Performance

Through **gray multiplication technology**, Hikvision LED improves the display effect in the dark part of the picture, avoids the common phenomenon of mosaic and vignetting, and improves the overall picture display quality.

## ① Grayscale Multiplication Technology



Delicate image transition: To raise contrast ratio of low grayscale image by 64 times, solving common problems such as mosaic and vignetting.

## ② Normal Display



Blunt image transition: The transition of the image in the dark area is blunt, with obvious mosaic and vignetting phenomenon.



# Intuitive System Control

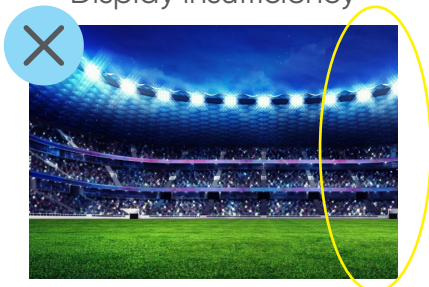
## Self-adapting resolution

Hikvision LEDs support automatic adjustment of any non-standard input to fit the resolution of the screen.



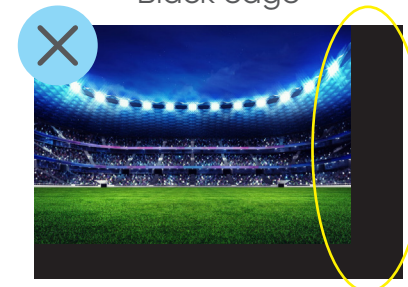
Hikvision LED displays

Display insufficiency



LED resolution < Signal resolution

Black edge



LED resolution > Signal resolution

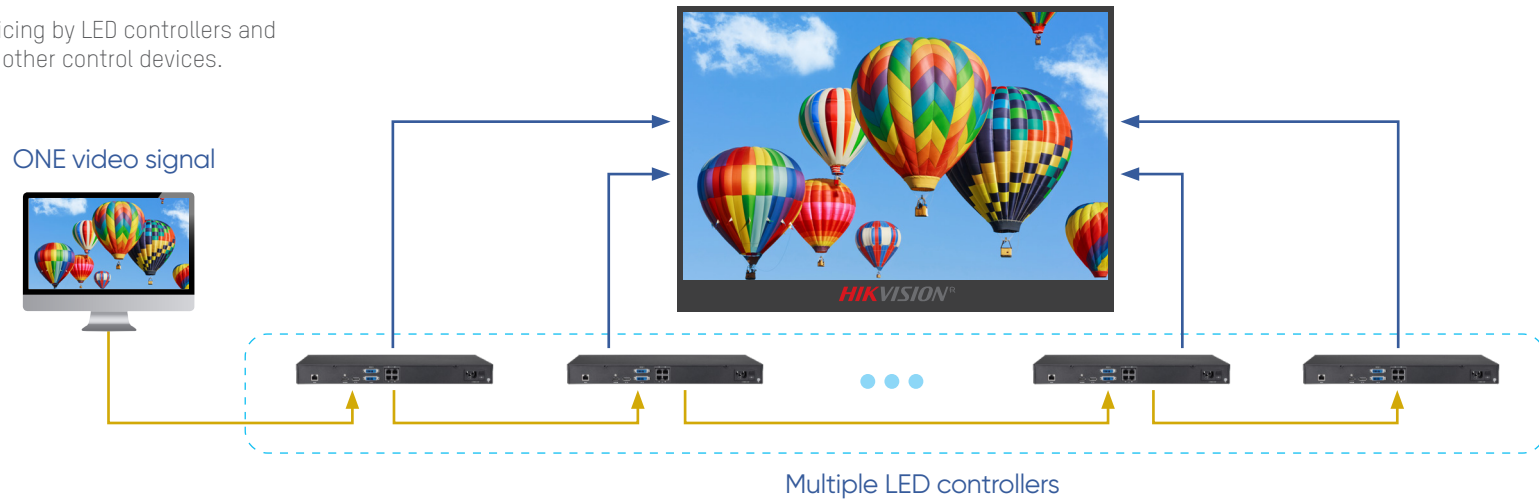
## Brightness adjustment

Hikvision LEDs support convenient, remote control adjustment of brightness to match lighting environment.



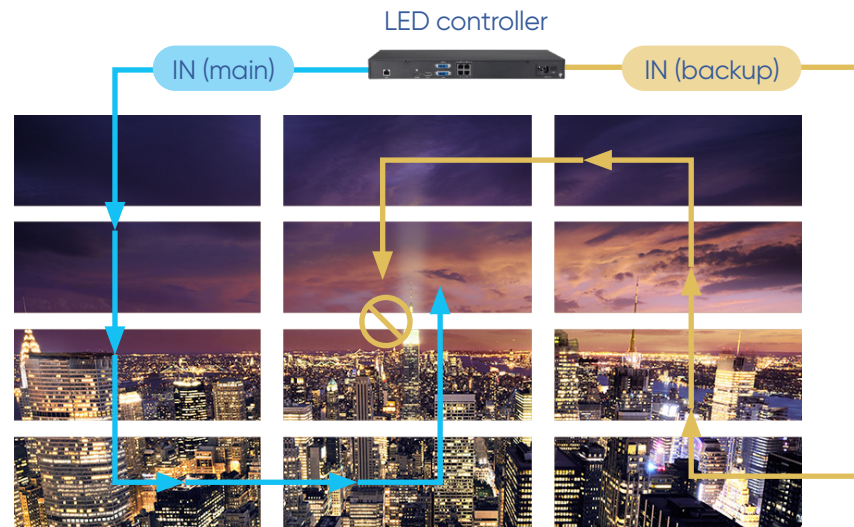
## ▶ Looped self-splicing

Supports simple self-splicing by LED controllers and loop connection without other control devices.



## ▶ Signal for dual backup

The two-way signal input design provides an LED screen backup. If one signal does not function correctly, the other one will automatically engage to ensure normal operation.



One broken signal (Normal operation)



# Extended Lifespan with Automatic Dehumidification

## Automatic dehumidification

The automatic dehumidification function lowers the rate of broken light by 30% on average, effectively lengthening a display's lifespan.

### Application environment



Moisture-proof in rainy season



Dehumidification in damp regions



Dehumidification in wet coastal areas



# Effective Eye Protection by Filtering over 90% Blue Light



## Blue light filtering

With over 90% of blue light converted to low-energy light, viewers enjoy effective eye protection.

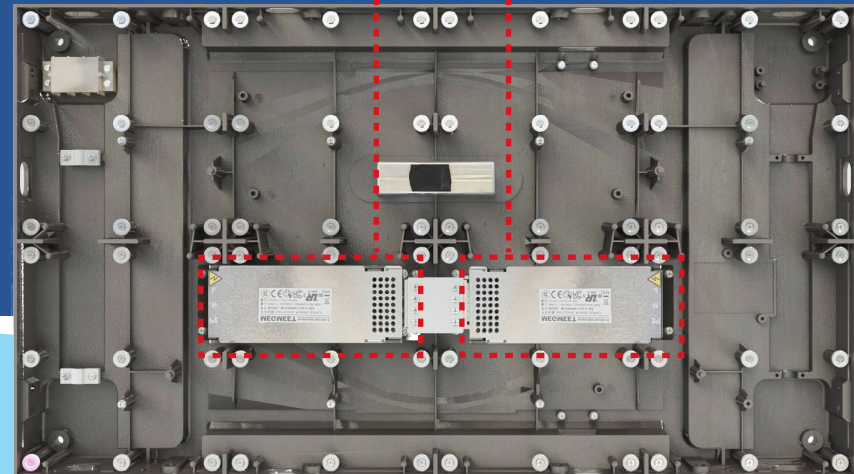
### Professional TUV certification

Zertifikat		Certificate		 <b>TÜVRheinland</b>	
Zertifikat Nr.	Certificate No.	Blatt	Sheet		
Q 50423213		0003			
Ihr Zeichen	Client Reference	Unser Zeichen	Our Reference	Ausstellungsdatum	Date of Issue
244007939		01-ZJ-50190476	002	21.03.2019	(day/mo/yr)
Genehmigungsinhaber			Fertigungsstätte		
License Holder			Manufacturing Plant		
Hangzhou Hikvision Digital Technolog Co., Ltd.			Hangzhou Hikvision Electronics Co., Ltd		
No. 555 Qianmo Road			No.299, Qiushi Road,		
Binjiang District, Hangzhou 310052			Tonglu Economic Development Zone,		
P. R. China			Tonglu County,		
			Hangzhou, Zhejiang, 310052		
			P. R. China		
Prüfzeichen		Test Mark		Geprüft nach	
				Tested acc. to	
				2 PFG 2383/06.16	
Zertifiziertes Produkt (Geräteidentifikation)				Lizenzentgelte - Einheit	
Certified Product (Product Identification)				License Fee - Unit	



## Dual Power Redundancy

Dual power backup design, ensuring more stable and secure work



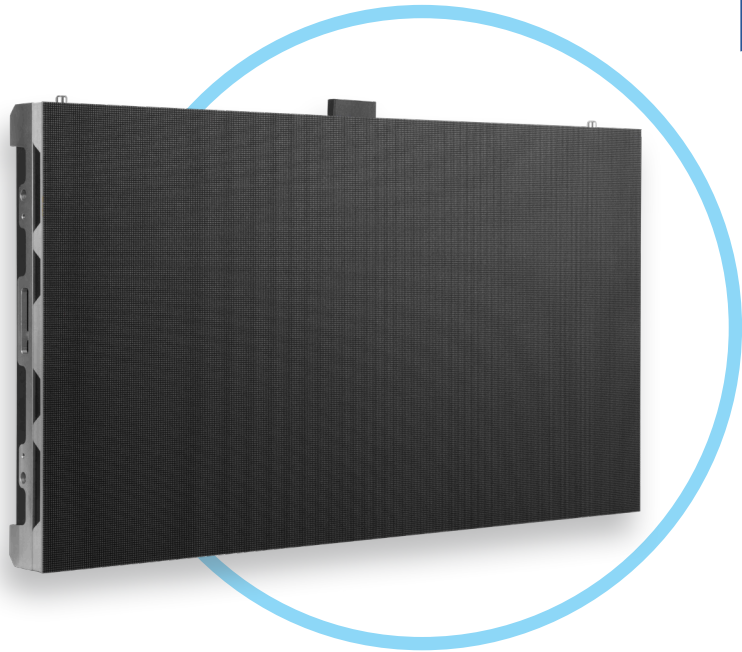
# High Precision Connection Interface

The power supply and signal wires between the cabinets in a column are integrated into the internal connection interface, which greatly improves the efficiency of on-site installation and eliminates the potential safety hazards caused by the wiring.



-- Functions and features are subject to the selected product series. Consult Hikvision for details. --

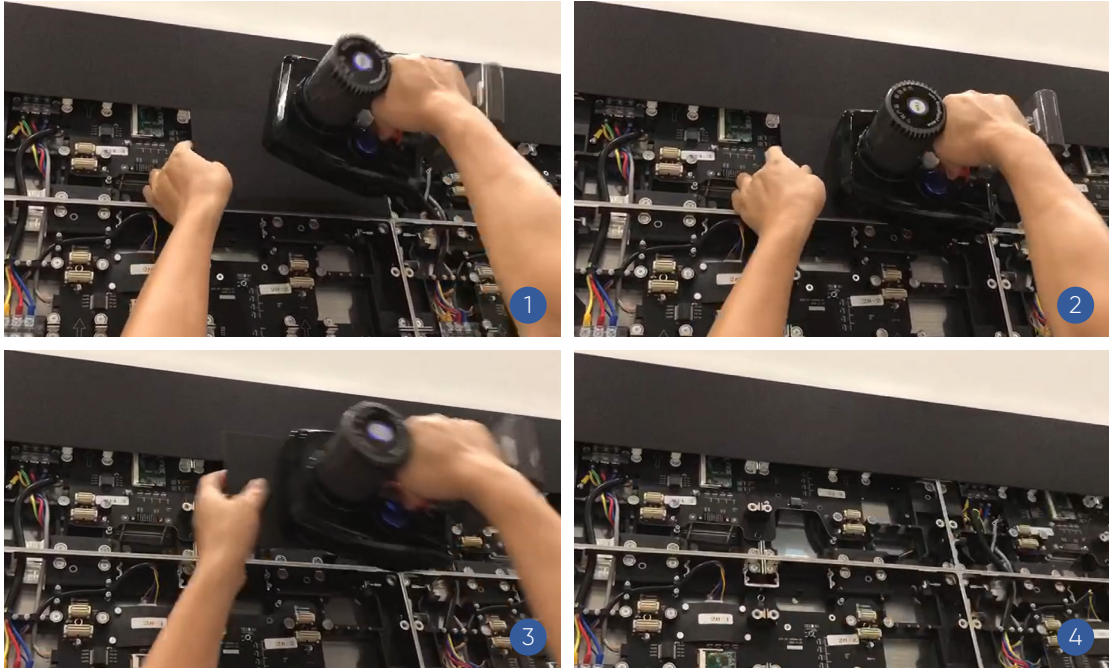




# Convenient Front Maintenance

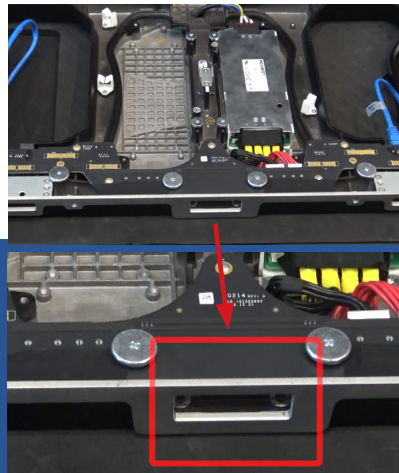
## Convenient automatic cabinet removal

All cabinets, power supplies and internal electronics and cables are replaceable from the front of each unit, greatly improving installation and maintenance efficiency without complicated configuration.

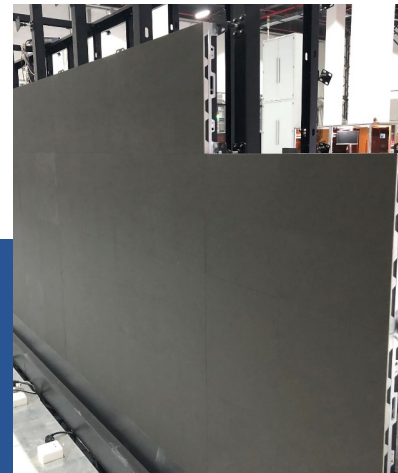




## No cables between cabinets



High precision connection interface



Integration of power and signal cables means no external cables



Improving the aesthetics of the installation on the site, and eliminating potential safety hazards caused by excessive wiring



# Perfect Scenarios



## Conference Rooms

LED full-color displays



PC signal



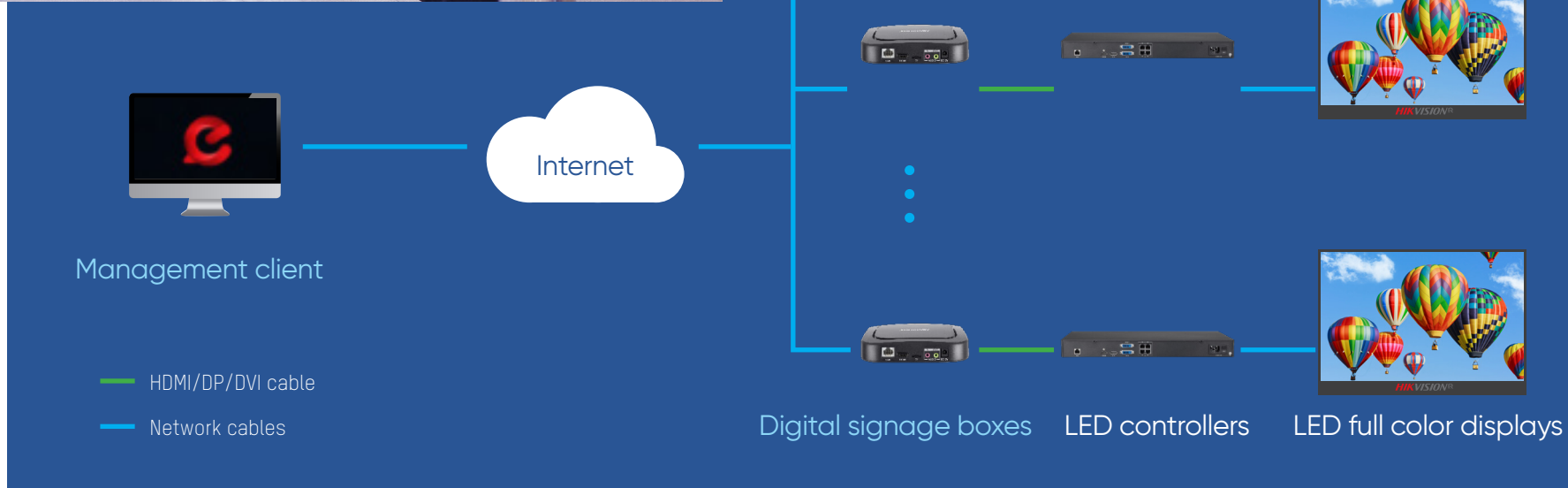
LED controller

HDMI/DP/DVI cable

Network cables

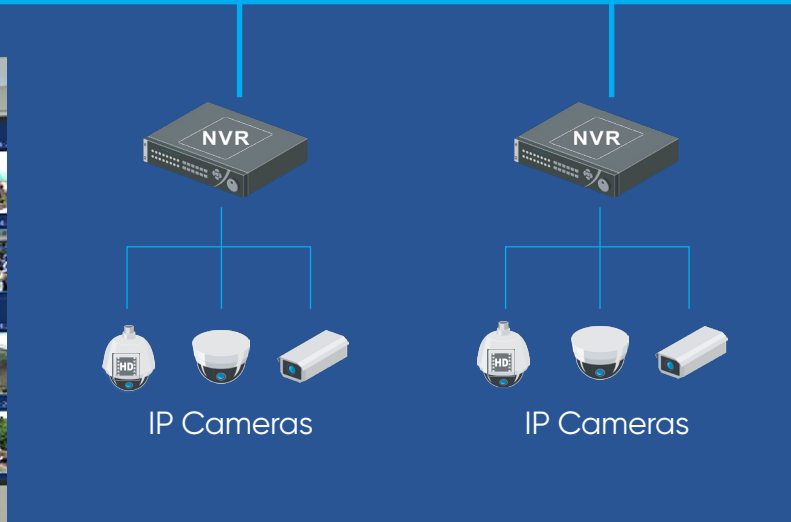
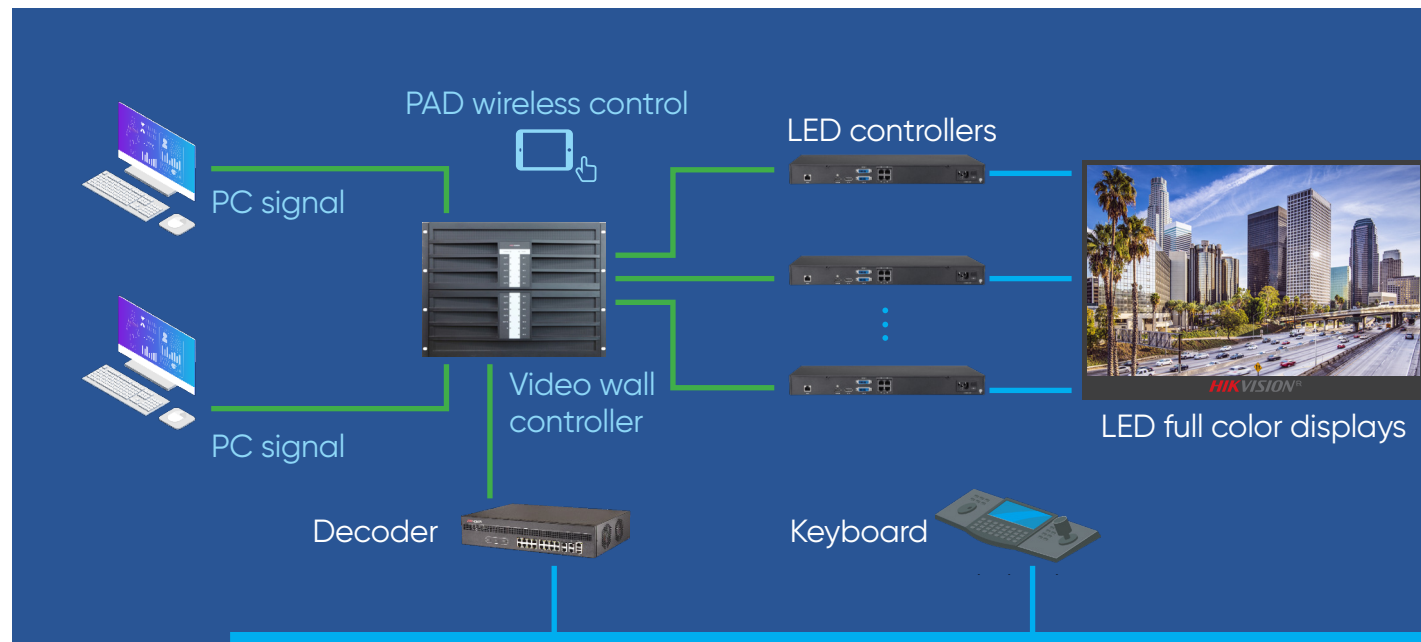


## ▶ Shopping Malls





# Command Centers



— HDMI/DP/DVI cable  
 — Network cables

# COB LED Advantages



## Better Surface Protection

-Entirely covered and protected by epoxy resin, the COB LED can withstand the following substances or behaviors:



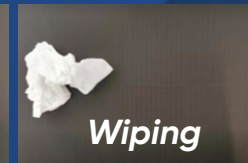
Saline



Fine Sand



Water&Dust

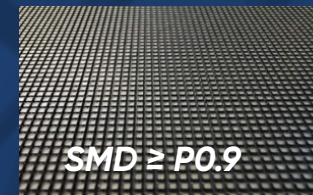


Wiping

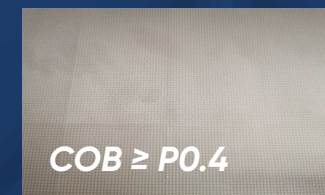


## Smaller Pixel Pitch

-SMD technology is difficult to mass produce  $< P0.9$ , while COB technology can realize minimum  $P0.4$ .



SMD  $\geq P0.9$

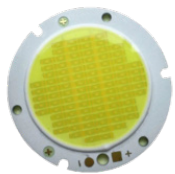


COB  $\geq P0.4$

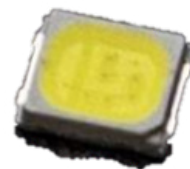


## Lower Dead Pixel Rate

-SMD dead pixel rate is around 100PPM, and for COB it's  **$< 10PPM$** .



COB Chip



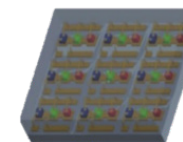
SMD LED Lamp



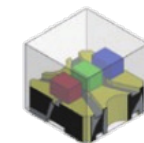
## Better Light Quality

-SMD is point light source while COB is area light source, has bigger viewing angle, and is less likely to cause glare and ghosting.

-COB LED can better transfer heat to PCB, thus reducing power consumption, extending lifespan and preventing brightness decay.



COB Modules



SMD LED Lamp



# Indoor LED Display – COB Series

Model		DS-D4209CI-ZWDB	DS-D4212CI-ZWDB
Image			
Module Composition	Pixel Structure	Flip Chip COB LED	
	Pixel Pitch [mm]	0.93 mm	1.25 mm
	Unit Module Composition (W × H)	3*4	
Unit Composition	Unit Resolution (W × H)	640 × 360	480 × 270
	Unit Dimensions (W × H)	600 x 337.5 mm	
	Weight	6.5 Kg ( 14.3 lb )	
	Pixel Density	1137777 dots/m <sup>2</sup>	640000 dots/m <sup>2</sup>
	Unit Ratio	16:9	
	Maintenance Mode	Front-maintenance	
	Optical Parameters	Brightness [nits]	600 nits
Color Temperature		3,000 K to 10,000 K adjustable	
Viewing Angle		Horizontal 160°, vertical 160°	
Brightness Uniformity		≥ 97%	
Color Uniformity		≤ ± 0.003Cx, Cy	
Max. Contrast		≥ 15,000 : 1	
Electrical Parameters	Peak Consumption (W/m <sup>2</sup> )	≤ 524 W/m <sup>2</sup>	≤ 393 W/m <sup>2</sup>
	Average Consumption (W/m <sup>2</sup> )	< 178 W/m <sup>2</sup>	< 134 W/m <sup>2</sup>
	Power Supply	AC100~240V(50-60Hz)	
Processing Performance	Drive Mode	Constant current driving	
	Frame Rate	60 Hz	
	Refresh Rate	3,840 Hz	
	Service Life (H)	Lamp 100,000 hours	
General	Temperature	-10 to 40 °C (10 to 104 °F)	
	Humidity (RH)	10%-80%RH	
	Certification	CE-EMC, CE-LVD, CB-LVD, RoHS	

# Indoor LED Display – SMD Series

Model		DS-D4212FI-GWF/III	DS-D4215FI-GWF/III	DS-D4215FI-CWF/III	DS-D4218FI-CWF/III	DS-D4225FI-CWF/III
Image						
Module Composition	Pixel Structure	Gold Wire SMD Triad LED		Copper Wire SMD Triad LED		
	Pixel Pitch	1.25 mm	1.5625 mm		1.875 mm	2.48 mm
	Module Component	2 × 4				
Unit Composition	Unit Resolution (W x H)	480 × 270	384 × 216		320 × 180	240 × 136
	Unit Dimensions (W x H)	600 x 337.5 mm				
	Weight	5.4 Kg (11.9 lb)				
	Pixel Density	640,000 dots/m <sup>2</sup>	409,600 dots/m <sup>2</sup>		284,444 dots/m <sup>2</sup>	161,185 dots/m <sup>2</sup>
	Unit Ratio	16:9				
	Maintenance Mode	Front-maintenance				
Optical Parameters	Brightness	800 nits				
	Color Temperature	3,000 K to 10,000 K adjustable				
	Viewing Angle	Horizontal 160°, vertical 160°				
	Brightness Uniformity	≥ 97%				
	Color Uniformity	≤ ± 0.003Cx, Cy				
	Contrast Ratio	≥ 5,000 : 1				
Electrical Parameters	Peak Consumption	≤ 600 W/m <sup>2</sup>	≤ 450 W/m <sup>2</sup>		345 W/m <sup>2</sup>	375 W/m <sup>2</sup>
	Average Consumption (W/m <sup>2</sup> )	< 200 W/m <sup>2</sup>	< 150 W/m <sup>2</sup>		115 W/m <sup>2</sup>	125 W/m <sup>2</sup>
	Power Supply	110-220 VAC ± 15%				
"Processing Performance"	Drive Mode	Constant current driving				
	Frame Rate	60 Hz				
	Refresh Rate	3,840 Hz				
General	Service Life (H)	Lamp 100,000 hours				
	Temperature	-10 to 40 °C (10 to 104 °F)				
	Humidity (RH)	10%-80%RH				
	Certification	CE-EMC, CE-LVD, CB-LVD, RoHS				



# HOB Technology

**HOB** is Hikvision's unique technology for LED lamp surface mounting and treatment. It improves many key performances of traditional SMD technology, while maintains an affordable price, making it rather competitive in fields of **P1.2, P1.5 and P1.8**.



1. The LED lamp's air tightness and environmental tolerance of LED lamp is insufficient.
2. Due to small pad area, LED lamp's welding firmness and strength is insufficient.



**Surface colloid layer** for better **waterproof, moisture-proof, anti-corrosion, dust-proof, anti-static, anti-oxidation.**



## High Temperature Mold Pressing

Better surface accuracy, flatness and thermal stability.



## Polymer Synthetic Colloid

Add a variety of additives, coagulants, anti-UV agents, etc., the colloid is not easy to turn yellow.



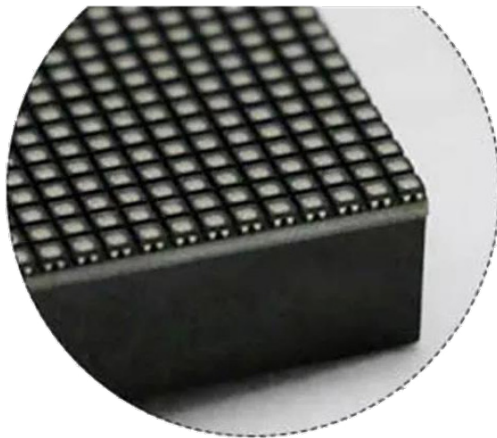
## Better Optical Performance

Through precise mold control, the thickness of the glue is controlled within 0.2mm, which reduces the double refraction of light at the edge of the colloid.

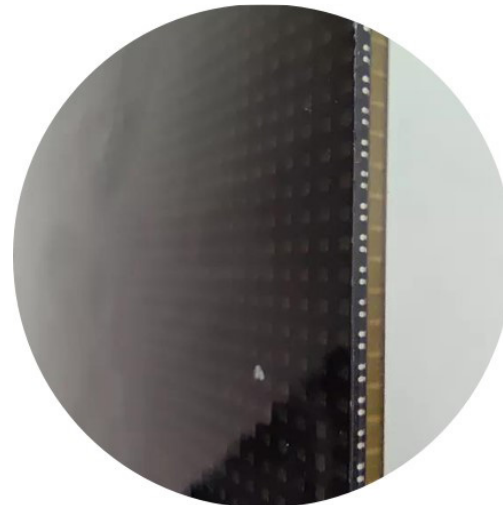


## Higher Contrast Ratio

Matte screen, compared with traditional mirror screen the contrast ratio increased by 40%.





**SMD**



**HOB**

# Indoor LED Display – HOB Series

Model		DS-D4212FI-CWFH	DS-D4215FI-CWFH	DS-D4218FI-CWFH
Image				
Module Composition	Pixel Structure	HOB: Glue covered SMD Triad LED		
	Pixel Pitch (mm)	1.25 mm	1.5625 mm	1.875 mm
	Module Component (Row x Column)	2 x 4		
Unit Composition	Unit Resolution (W x H)	480 x 270	384 x 216	320 x 180
	Unit Dimensions (W x H)	600 x 337.5 mm		
	Weight	5.4 Kg (11.9 lb)		
	Pixel Density	640,000 dots/m <sup>2</sup>	409,600 dots/m <sup>2</sup>	284,444 dots/m <sup>2</sup>
	Unit Ratio	16:9		
	Maintenance Mode	Front-maintenance		
	Optical Parameters	Brightness (nits)	800 nits	
Color Temperature		3,000 K to 10,000 K adjustable		
Viewing Angle		Horizontal 160°, vertical 160°		
Brightness Uniformity		≥ 97%		
Color Uniformity		≤ ± 0.003Cx, Cy		
Max. Contrast		≥ 5,000 : 1		
Electrical Parameters	Peak Consumption (W/m <sup>2</sup> )	600 W/m <sup>2</sup>	450 W/m <sup>2</sup>	345 W/m <sup>2</sup>
	Average Consumption (W/m <sup>2</sup> )	200 W/m <sup>2</sup>	150 W/m <sup>2</sup>	115 W/m <sup>2</sup>
	Power Supply	110 to 240 VAC ± 15%		
Processing Performance	Drive Mode	Constant current driving		
	Frame Rate	60 Hz		
	Refresh Rate	3,840 Hz		
General	Service Life (H)	≥ 100,000		
	Temperature	-10 to 40 °C (10 to 104 °F)		
	Humidity (RH)	10% to 80% (non-condensing)		
	Certification	CE-EMC, CE-LVD, CB-LVD, RoHS		



# Indoor LED Display – Entry Series

Model		DS-D4218FI-CAF	DS-D4225FI-CAF	DS-D4237FI-CAF
Image				
Module Composition	Pixel Structure	SMD Triad LED		
	Pixel Pitch (mm)	1.875 mm	2.5mm	3.75 mm
	Module Component	2*2		
Unit Composition	Unit Resolution (W x H)	256 x 288	192 * 216	128 x 144
	Unit Dimensions (W x H)	480 mm x 540mm		
	Weight	7KG(15.43lb)		
	Pixel Density	284,444 dots/m <sup>2</sup>	160,000 dots/m <sup>2</sup>	71,111 dots/m <sup>2</sup>
	Unit Ratio	8:9		
	Maintenance Mode	Front maintenance for all components		
	Optical Parameters	Brightness	800 nits	
Color Temperature		3,000 K to 10,000 K adjustable		
Viewing Angle		Horizontal 160°, vertical 160°		
Brightness Uniformity		≥ 97%		
Color Uniformity		≤ ± 0.003Cx, Cy		
Contrast Ratio		≥ 5,000 : 1		
Electrical Parameters	Peak Consumption	≤ 600 W/m <sup>2</sup>	≤ 600 W/m <sup>2</sup>	≤ 570 W/m <sup>2</sup>
	Average Consumption (W/m <sup>2</sup> )	< 200 W/m <sup>2</sup>	< 200 W/m <sup>2</sup>	< 170 W/m <sup>2</sup>
	Power Supply	110-220 VAC ± 15%		
Processing Performance	Drive Mode	Constant current driving		
	Frame Rate	60 Hz		
	Refresh Rate	3,840 Hz		
General	Service Life (H)	Lamp 100,000 hours		
	Temperature	-10 to 40 °C (10 to 104 °F)		
	Humidity (RH)	10%-80%RH		
	Certification	CE-EMC, CE-LVD, CB-LVD, RoHS		

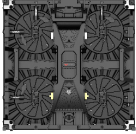
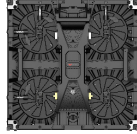
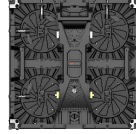
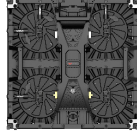
# Outdoor LED Display

Model		DS-D4266FO-GLF	DS-D4266FO-CLF	DS-D4280FO-GLF	DS-D4280FO-CLF	DS-D42A0FO-GLF	DS-D42A0FO-CLF
Image							
Module Composition	Pixel Structure	Gold Wire SMD Triad LED	Copper Wire SMD Triad LED	Gold Wire SMD Triad LED	Copper Wire SMD Triad LED	Gold Wire SMD Triad LED	Copper Wire SMD Triad LED
	Pixel Pitch (mm)	6.6 mm		8 mm		10 mm	
	LED Arrangement	SMD2727		SMD3535		SMD3535	
Unit Composition	Unit Resolution (W x H)	144 x 144		120 x 120		96 x 96	
	Unit Dimensions (W x H)	960 x 960 mm					
	Weight	27.6 Kg (60.8 lb)					
	Pixel Density	22,500 dots/m <sup>2</sup>		15,625 dots/m <sup>2</sup>		10,000 dots/m <sup>2</sup>	
	Unit Ratio	1:1					
	Maintenance Mode	Front-maintenance and rear-maintenance					
Optical Parameters	Brightness	9,000 nits	6,000 nits	10,000 nits	6,000 nits	10,000 nits	6,000 nits
	Viewing Angle	Horizontal 160°, vertical 60°					
	Grayscale	14 bit					
Electrical Parameters	Peak Consumption	580 W/m <sup>2</sup>		550 W/m <sup>2</sup>		550 W/m <sup>2</sup>	
	Average Consumption	200 W/m <sup>2</sup>		190 W/m <sup>2</sup>		190 W/m <sup>2</sup>	
	Power Supply	AC 110 to 240V					
Processing Performance	Refresh Rate	3,840 Hz					
General	Temperature	-20 to 65 °C (-4 to 149 °F)					
	Protection Level	IP66					
	Certification	CE-EMC, CE-LVD, CB-LVD, RoHS					





Model		DS-D4229FO-CLFS	DS-D4239FO-CLFS	DS-D4248FO-CLFS
Image				
Module Composition	Pixel Structure	SMD Triad LED		
	Pixel Pitch (mm)	2.97 mm	3.91 mm	4.81 mm
	LED Arrangement	SMD1515	SMD1921	
Unit Composition	Unit Resolution (W x H)	168 x 168	128 x 128	104 x 104
	Unit Dimensions (W x H)	500 x 500 mm		
	Weight	7.1 Kg (15.7 lb)		
	Pixel Density	112,896 dots/m <sup>2</sup>	65,536 dots/m <sup>2</sup>	43,264 dots/m <sup>2</sup>
	Unit Ratio	1:1		
	Maintenance Mode	Front-maintenance and rear-maintenance		
Optical Parameters	Brightness	4,500 nits	5,000 nits	
	Viewing Angle	Horizontal 160°, vertical 90°		
	Grayscale	14 bit		
Electrical Parameters	Peak Consumption	700 W/m <sup>2</sup>	760 W/m <sup>2</sup>	
	Average Consumption	280 W/m <sup>2</sup>	300 W/m <sup>2</sup>	
	Refresh Rate	3,840 Hz		
Certification	Temperature	-30 to 65 °C (-22 to 149 °F)		
	Protection Level	IP66		
	General	CE-EMC, CE-LVD, CB-LVD, RoHS		

# Rental LED




Model		DS-D4226RI-CAF	DS-D4239RI-CAF	DS-D4239RO-CA	DS-D4248RO-CA
Image					
Module Composition	Pixel Structure	SMD Triad LED			
	Pixel Pitch (mm)	2.604 mm	3.906 mm	3.906 mm	4.8 mm
	Module Resolution (W × H)	96 × 96	64 × 64	64 × 64	52 × 52
	Module Dimensions (W × H)	250 × 250 mm			
	Unit Module Composition (W × H)	2 × 2			
Unit Composition	Unit Resolution (W × H)	192 × 192	128 × 128	128 × 128	104 × 104
	Unit Dimensions (W × H)	500 × 500 mm			
	Weight	7.7 kg (16.97 lbs)		8.5 Kg (18.74lbs)	
	Pixel Density	147,456 dots/m <sup>2</sup>	65,536 dots/m <sup>2</sup>	65,536 dots/m <sup>2</sup>	42,364 dots/m <sup>2</sup>
	Unit Ratio	1 : 1			
	Maintenance Mode	Front-maintenance		Rear-maintenance	
Optical Parameters	Brightness (nits)	800 nits		≥ 5,000 nits	≥ 4,500 nits
	Color Temperature	3,000 K to 10,000 K adjustable			
	Viewing Angle	Horizontal 160°, vertical 160°			
	Luminous Point Center Distance Deviation	< 3%			
	Brightness Uniformity	≥ 97%			
	Color Uniformity	≤ ± 0.003Cx, Cy			
	Max. Contrast	≥ 6,000 : 1			
Electrical Parameters	Peak Consumption (W/m <sup>2</sup> )	550 W/m <sup>2</sup>	460 W/m <sup>2</sup>	680 W/m <sup>2</sup>	
	Average Consumption (W/m <sup>2</sup> )	180 W/m <sup>2</sup>	150 W/m <sup>2</sup>	230 W/m <sup>2</sup>	
	Power Supply	110 to 220 VAC ± 15%			
Processing Performance	Drive Mode	Constant current driving			
	Frame Rate	60 Hz			
	Refresh Rate	Up to 3,840 Hz		3,840 Hz	
General	Service Life (H)	≥ 100,000 (H)			
	Temperature	-15 to 50 °C (5 °F to 122 °F)			
	Humidity (RH)	10% to 80% (non-condensing)		10% to 85% (non-condensing)	
	Certification	CE-EMC, CE-LVD, CB-LVD, RoHS			






# Transparent LED Displays






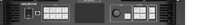
Model		DS-D4239TI-SHC	DS-D4239TI-SLC
Image			
Unit Composition	Pixel Structure	1R1G1B	
	Pixel Pitch	Horizontal: 3.9 mm, Vertical: 7.8 mm	
	Unit Dimensions (W x H)	Different dimensions for flexible splicing: 1 m x 1 m, 1 m x 0.75 m, 0.75 m x 1 m, 0.75 m x 0.75 m	
	Weight	15 kg/m <sup>2</sup>	
	Pixel Density	32768 dot/m <sup>2</sup>	
	Transmittance	60%	
Optical Parameters	Brightness	5000 nits	2000 nits
	Color Temperature	2000K to 10000K adjustable	
	Viewing Angle	120° (H)/120° (V)	
	Brightness Uniformity	≥ 98%	
	Color Uniformity	≤ ± 0.001Cx, Cy	
	Contrast Ratio	≥ 3,000 : 1	
Electrical Parameters	Peak Consumption	≤ 800 W/m <sup>2</sup>	
	Average Consumption (W/m <sup>2</sup> )	< 300 W/m <sup>2</sup>	
	Power Supply	110 to 220 VAC ± 15%	
Processing Performance	Drive Mode	Constant current driving 1/4 scan	
	Frame Rate	60 Hz	
	Refresh Rate	≥ 1920 Hz	
General	Service Life (H)	> 100000 [H]	
	Temperature	-10 to 65 °C (10 to 104 °F)	
	Humidity (RH)	10%-90%RH	
	Certification	CE-EMC, CE-LVD, CB-LVD, RoHS	

# LED Controller


Model		DS-D42C08-H	DS-D42C16-H	DS-D42V24-H
Image				
Interface	Video & Audio Input	HDMI × 2, DP × 1, DVI × 1		HDMI × 2, DVI × 4
	Video & Audio Output	HDMI × 1		HDMI × 3, DVI × 4
	Network Interface	8	16	24
	Control Interface	RJ45 × 1		
Processing Performance	Max. Load Capacity	5 MP	10 MP	13.27 MP
	Frame Frequency	50/60 Hz		60 Hz
	Refresh Rate	3,840 Hz		
	Processing Depth	8 bit		10 bit
	Grey Level	16 bit		
	Display Color	281 trillion		
	Brightness Control	1 to 10 levels adjustable (gradual white balance)		1 to 100 levels adjustable (gradual white balance)
Electrical Parameters	Average Consumption	13.3 W		24 W
	Input Voltage	100 to 240 VAC @50/60 Hz		
Operating Environment	Operating Temperature	0 to 40 °C (32 to 104 °F)		
	Operating Humidity	10% to 80%		
	Storage Temperature	-10 to 60 °C (14 to 140 °F)		
	Storage Humidity	10% to 80%		
General	Product Dimensions (W × H × D)	442 × 249.5 × 57 mm (17.40 × 9.82 × 2.24 inch)		442 × 338.5 × 92 mm (17.40 × 13.33 × 3.62 inch)
	Certification	CE-EMC, CE-LVD, CB-LVD, RoHS		
Video Wall Management Function		No		Support

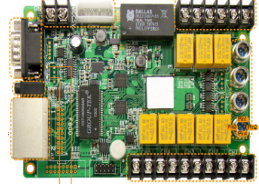
Model		DS-D42B01-N	DS-D42B02-N	DS-D42B04-N
Image				
Interface	Video & Audio Input	Internal video source	Internal video source, HDMI x 1	
	Video & Audio Output	1 × Audio Out	1 × Audio Out, 1 x HDMI Out	
	Network Interface	1	2	4
	Control Interface	RJ45 × 1, WiFi AP		
Processing Performance	Max. Load Capacity	0.65 MP	1.3 MP	2.3 MP
	Frame Frequency	60 Hz		
	Refresh Rate	3,840 Hz		
	Processing Depth	8 bit		
	Grey Level	16 bit		
	Display Color	281 trillion		
	Brightness Level	1 to 255 adjustable		
Electrical Parameters	Average Consumption	6 W		
	Input Voltage	100 to 240 VAC @50/60 Hz		
Operating Environment	Operating Temperature	-20 to 60 °C (-4 to 140 °F)		
	Operating Humidity	0% to 80% (non-condensing)		
	Storage Temperature	-40 to 80 °C (-40 to 176 °F)		
	Storage Humidity	0% to 80% (non-condensing)		
General	Product Dimensions (W × H × D)	274.3 x 139 x 40 mm (10.8 x 5.47 x 1.57 inch)		
	Certification	CE-EMC, CE-LVD, CB-LVD, RoHS		
Built-in Information Releasing System		Support		



Model		DS-D42C04-N	DS-D42C06-N	DS-D42V04-N	DS-D42V06-N	DS-D42V10-N	DS-D42V16-N
Image							
Interface	Video & Audio Input	DVI × 1, HDMI × 1, Audio × 1	DVI × 1, HDMI × 2, 3G-SDI × 2, DVI+DVI LOOP × 1, USB × 1	3G-SDI x1, Audio x1, VGA x1, CVBS x1, DVI x1, HDMI1.3 x1, DP x1	3G-SDI x1, HDMI 1.3 x2, DVI x1	3G-SDI x1, HDMI1.4 x2, DVI x2	3G-SDI x2, HDMI 2.0 x1, DVI x4
	Video & Audio Output	RJ45 × 4	RJ45 × 4, DVI × 1	DVI x1	HDMI1.3 x1	HDMI1.3 x1	-
	Network Interface	4		4	6	10	16
	Control Interface	USB × 1		RJ45 × 1, USB × 1			
Processing Performance	Max. Load Capacity	2,048 × 1,152 @ 60 Hz or 1,920 × 1,200 @ 60 Hz	2,560 × 440 @ 60 Hz	2.3 MP	3.9 MP	6.5 MP	10.4 MP
	Frame Frequency	50/60 Hz		60 Hz			
	Refresh Rate	3,840 Hz					
	Processing Depth	8 bit		-			
	Grey Level	16 bit		-			
	Display Color	281 trillion		-			
	Brightness Control	Automatic/manual		-			
Electrical Parameters	Average Consumption	16 W	65 W	25 W	28 W	28 W	70 W
	Input Voltage	100 to 240 VAC @50/60 Hz					
Operating Environment	Operating Temperature	-10 to 45 °C (14 to 113 °F)		-20 to 60 °C (-4 to 140°F)	0 to 45 °C (32 to 113°F)	0 to 45°C (32 to 113°F)	0 to 50°C (32 to 122°F)
	Operating Humidity	10% to 90%		20% to 90% (non-condensing)			20% to 85% (non-condensing)
	Storage Temperature	-20 to 60 °C (-4 to 140 °F)		-	-20 to 70°C (-4 to 158°F)		-20 to 60°C (-4 to 140°F)
	Storage Humidity	10% to 90%		-	10% to 95% (non-condensing)		10% to 85% (non-condensing)
General	Product Dimensions (W × H × D)			482.6 × 227.6 × 50 mm (19 × 8.96 × 1.97 inch)	483.6 × 351.2 × 50.1 mm (19.4 × 13.83 × 1.97 inch)	483.6 × 351.2 × 50.1 mm (19.04 × 13.83 × 1.97 inch)	482.6 × 372.5 × 94.6 mm (19 × 14.67 × 3.72 inch)
	Certification	CE-EMC, CE-LVD, CB-LVD, RoHS					
Video Wall Management Function		Support					

# Multi-Function Card


Model		<b>DS-D42AM2</b>
Image		
Control Card Parameter	Sending Card Dimension (W × H × D)	200 × 42 × 126.7 mm (7.9 × 1.7 × 5.0 inch)
	Sending Card Weight	0.70 kg (1.5 lbs)
Electrical Parameter	Power Supply	12 VDC, 1A
	Peak Power	8 W
	Average Power	3 W
General	Operating Temperature	-10 to 40 °C (14 to 104 °F)
	Operating Humidity	10% to 90%
	Storage Temperature	-20 to 60 °C (-4 to 140 °F)
	Storage Humidity	10% to 90%
	Package Dimension (W × H × D)	317 × 82 × 242 mm (12.5 × 3.2 × 9.5 inch)
	Gross Weight	0.75 kg (1.7 lbs)
	Packing List	Multi-functional card × 1 Infrared remote control × 1 Power adapter × 1 Outer package × 1

Model		<b>DS-D42V10-N</b>
Image		
Power	Input Voltage	DC 3.3V to 5.5V
	Rated Current	0.38 A
	Max. Consumption	2.5 w
Working Environment	Working Temperature	-20 to +75 °C (-4 to 167 °F)
	Working Humidity	0% to 90% (non-condensing)
Power Switch Control	Rated Voltage (Switch)	AC 250V / DC 30V
	Rated Current (Switch)	3A
General	Dimensions (W × H × D)	144 × 94.8 × 20 mm (5.67 × 3.73 × 0.79 inch)
	Net Weight	164.4 g
	Certification	CE-EMC, CE-LVD, CB-LVD, RoHS

# Front Maintenance Tool




Model	<b>DS-D42MF2B</b>
Image	
Dimensions	350 × 220 × 230 mm (1.1 × 0.7 × 0.8 inch)
Materials	N50 magnetic steel + ABS + Silica gel
Color	Black
Weight	2.9 kg (6.39 lbs)
Generation	Second Generation
Power	Lithium ion battery
Battery Capacity	3,000 mAh
Certification	CE-EMC, CE-LVD, CB-LVD, RoHS




# Light Sensor

Model	<b>DS-D42A05</b>
Image	
Operating Temperature	-20 to +70°C (-4 to 158 °F)
Operating Humidity	0% to 99% (non-condensing)
Rated voltage	5V DC
Brightness measurement range	0 lux to 65535 lux
Cable length	5m
Certification	CE-EMC, CE-LVD, CB-LVD, RoHS





# Indoor Standard Bracket

Model		DS-DL116033W	DS-DL126033W	DS-DL226033W
Image				
Default Parameters	Color	Black		
	Material	AL6063		
	Surface Treatment	Electrostatic spraying		
General	Dimensions (W × H × D)	640 × 380 × 80 mm (25.22 × 14.97 × 3.15 inch)	1,240 × 380 × 80 mm (48.86 × 14.97 × 3.15 inch)	1,240 × 710 × 80 mm (48.85 × 27.97 × 3.15 inch)
	Gross Weight	4.1 ± 0.5 kg (9.05 ± 1.1 lbs)	6.9 ± 0.5 kg (15.23 ± 1.1 lbs)	9.9 ± 0.5 kg (21.85 ± 1.1 lbs)
	Net Weight	2.5 ± 0.5 kg (5.51 ± 1.1 lbs)	4.0 ± 0.5 kg (8.83 ± 1.1 lbs)	4.9 ± 0.5 kg (10.81 ± 1.1 lbs)

Model		DS-DL114854W	DS-DL124854W	DS-DL224854W
Image				
Default Parameters	Color	Black		
	Material	AL6063		
	Surface Treatment	Electrostatic spraying		
General	Dimensions (W × H × D)	520 × 580 × 80 mm (20.49 × 22.85 × 3.15 inch)	1,000 × 580 × 80 mm (39.40 × 22.85 × 3.15 inch)	1,000 × 1,120 × 80 mm (39.40 × 44.13 × 3.15 inch)
	Gross Weight	4.3 ± 0.5 kg (9.49 ± 1.1 lbs)	7.5 ± 0.5 kg (16.55 ± 1.1 lbs)	11.0 ± 0.5 kg (24.28 ± 1.1 lbs)
	Net Weight	2.7 ± 0.5 kg (5.96 ± 1.1 lbs)	4.0 ± 0.5 kg (8.83 ± 1.1 lbs)	5.3 ± 0.5 kg (11.70 ± 1.1 lbs)

# Video Wall Controller

Model		DS-C30S-S11	DS-C30S-S23
Image			
Device Features	Screen Size	105.42 mm (length) × 67.07 mm (width)	105.42 mm (length) × 67.07 mm (width)
	Screen Resolution	480 × 272	480 × 272
Device Parameters	Power Interface	AC 100 ~ 240 V, 50/60 Hz	AC 100 ~ 240 V, 50/60 Hz
	Dimension	447 mm (depth) × 207.8 mm (height) × 442 mm (width)	447 mm (depth) × 354.8 mm (height) × 442 mm (width)
	Chassis Height	4.5 U	8 U
	Power Supply Number	1+2 redundant power supplies	2+1 redundant power supplies
	Power Consumption	≤600 W (full-loaded)	≤1000 W (full-loaded)
Chassis Parameters	Bus Type	10 Gigabit network switching	10 Gigabit network switching
	Slot Number	sub board slot × 11, switching board slot × 1, main control board slot × 2	sub board slot × 23, switching board slot × 1, main control board slot × 2
	Management Network Interface	2, 10 M/100 M/1000 M self-adaptive Ethernet interfaces 1, 10 Gigabit optical interface	2, 10 M/100 M/1000 M self-adaptive Ethernet interfaces 1, 10 Gigabit optical interface
	Weight (full-loaded)	≤40 KG (full-loaded)	≤60 KG (full-loaded)
Environment Parameters	Working Temperature	0°C ~ 50°C	0°C ~ 50°C
	Working Humidity	10 ~ 90% (non-condensing)	10 ~ 90% (non-condensing)
HDMI Input Board (DS-C30S-04HI)	Input Resolution	1024 × 768@60 Hz, 1280 × 1024@60 Hz, 1366 × 768@60 Hz, 1440 × 900@60 Hz, 1680 × 1050@60 Hz, 1280 × 960@60 Hz, 1600 × 1200@60 Hz, 1280 × 720P@50 Hz, 1280 × 720P@60 Hz, 1920 × 1080P@50 Hz, 1920 × 1080P@60 Hz, 1920 × 1200@60 Hz	
	Video Input Interface Number	4	
	Video Input Interface Type	HDMI	
VGA Input Board (DS-C30S-04VI)	Input Resolution	1024 × 768@60 Hz, 1280 × 1024@60 Hz, 1366 × 768@60 Hz, 1440 × 900@60 Hz, 1680 × 1050@60 Hz, 1280 × 960@60 Hz, 1600 × 1200@60 Hz, 1280 × 720P@50 Hz, 1280 × 720P@60 Hz, 1920 × 1080P@50 Hz, 1920 × 1080P@60 Hz, 1920 × 1200@60 Hz	
	Video Input Interface Number	4	
	Video Input Interface Type	VGA	
	Audio Input Interface Number	4	
	Audio Input Interface Type	miniDP to 4 × 3.5 mm	
DVI Input Board (DS-C30S-04DI)	Input Resolution	1024 × 768@60 Hz, 1280 × 1024@60 Hz, 1366 × 768@60 Hz, 1440 × 900@60 Hz, 1680 × 1050@60 Hz, 1280 × 960@60 Hz, 1600 × 1200@60 Hz, 1280 × 720P@50 Hz, 1280 × 720P@60 Hz, 1920 × 1080P@50 Hz, 1920 × 1080P@60 Hz, 1920 × 1200@60 Hz	
	Video Input Interface Number	4	
	Video Input Interface Type	DVI-D	

DVI Input Board (DS-C30S-04DI)	Audio Input Interface Number	4
	Audio Input Interface Type	miniDP to 4 x 3.5 mm
HDMI UHD Input Board (DS-C30S-02HI/4K)	Input Resolution	1920 x 1080P@60 Hz, 1920 x 1200@60 Hz, 3840 x 2160@30 Hz, 4096 x 2160@30 Hz, 3840 x 2160@60 Hz (only supported by interface 1), 4096 x 2160@60 Hz (only supported by interface 1)
		Supports custom resolution: width 1920 ~ 4092, height 1080 ~ 2160, frame rate 30/60. Only supports frame rate of 60 when the width is less than 2560 or the height is less than 1940.
		Video Input Interface Number
	Video Input Interface Type	HDMI
DP Input Board (DS-C30S-02DPI/4K)	Input Resolution	1920 x 1080P@50 Hz, 1920 x 1080P@60 Hz, 1920 x 1200@60 Hz, 3840 x 2160@30 Hz (only supported by interface 1), 3840 x 2160@60 Hz, 4096 x 2160@30 Hz, 4096 x 2160@60 Hz (only supported by interface 1)
		Supports custom resolution: width 1920 ~ 4092, height 1080 ~ 2160, frame rate 30/60. Only supports frame rate of 60 when the width is less than 2560 or the height is less than 1940.
	Video Input Interface Type	DP
DVI Output Board (DS-C30S-04DO)	Output Resolution	1920 x 1200@60 HZ, 1600 x 1200@60 Hz, 1920 x 1080@60 Hz, 1680 x 1050@60 Hz, 1280 x 720@60 Hz, 1280 x 1024@60 Hz, 1024 x 768@60 Hz
		Supports LED screen and custom resolution output. Can be configured with maximum area length x width less than 260 W.
	Video Output Interface Number	4
	Video Output Interface Type	DVI-D
	Audio Output Interface Number	4
HDMI Output Board (DS-C30S-04HO)	Output Resolution	1920 x 1200@60 HZ, 1600 x 1200@60 Hz, 1920 x 1080@60 Hz, 1680 x 1050@60 Hz, 1280 x 720@60 Hz, 1280 x 1024@60 Hz, 1024 x 768@60 Hz
		Supports LED screen and custom resolution output. Can be configured with maximum area length x width less than 260 W.
	Video Output Interface Type	HDMI
LED Sending Card Output Board (DS-C30S-L104)	Output Resolution	width (144 ~ 8192), height (144 ~ 4320), the total pixel point should be less than 1040 W
	Video Output Interface Number	4 x miniSAS to 20 x 1G electrical interfaces, 2 x 10G optical interfaces
	Video Output Interface Type	miniSAS to 5 x RJ45, 10G optical port
	Audio Output Interface Number	1
	Audio Output Interface Type	3.5 mm audio terminal
Decoding Board (DS-C30S-DEC)	Audio Decoding Channel Number	32
	Audio Decoding Performance	audio encoding format G711-A, G711-U, G722.1, G726-16/U/A, MPEG, AAC-LC
	Audio Decoding Format	audio encoding format G711-A, G711-U, G722.1, G726-16/U/A, MPEG, AAC-LC
	Decoding Resolution	Supports decoding up to 1600W pixels (one channel)
	Decoding Channel	Supports Up to 32 decoding channels.
	Decoding Performance	A single board supports 16 x 1080P30, 32 x 720P@30. Supports decoding up to 1600W pixels.



# Video Wall Controller -C12L

Product Model	DS-C12L-0204H	
image		
Input	Input Interface 2 × HDMI 2.0	
	Input resolution	4096 × 2160@60 Hz, 4096 × 2160@30 Hz,
		3840 × 2160@60 Hz, 3840 × 2160@30 Hz,
		1920 × 1080@60 Hz, 1920 × 1080@50 Hz,
		1920 × 1200@60 Hz, 1600 × 1200@60 Hz,
		1680 × 1050@60 Hz, 1280 × 1024@60 Hz
Input resolution customizable		
Output	Output interface	4 × HDMI 2.0
	Output resolution	4096 × 2160@60 Hz
		3840 × 2160@60 Hz
		1920 × 1080@60 Hz, 1920 × 1200@60 Hz,
		1080 × 1920@60 Hz, 1200 × 1920@60 Hz
When HDMI OUT 1 is inputting signals of 4K@60 Hz, HDMI OUT 2, 3, and 4 are unavailable.		
Other Interface	Network interface	1 × RJ45 10M/100M/1000Mbps self-adaptive Ethernet interface
	Audio output	1 × 3.5 mm Audio Interface
	Serial port	1 × RS-232 debugging port
		1 × RS-232/RS-485 control port
	Sync port	1 × Sync IN interface
		1 × Sync OUT interface
	Cascading interface	1 × LOOP OUT interface
Infrared interface	1 × IR interface	
General	Control method	Client, front panel
	Power supply	12 VDC (external)
	Power consumption	18 W
	Working temperature	-10°C to 45°C
	Working humidity	10% to 90% RH
	Dimension	222.8 mm × 41.8 mm × 154.2 mm [8.77 inch × 1.65 inch × 6.07 inch] (W × H × D)
	Weight	1.1 Kg [2.43 lb]

# Brighten Every Moment

## Hikvision LED Displays

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