AMERICAN LED GROUP

AL SERIES

Creative flat screen for Rental

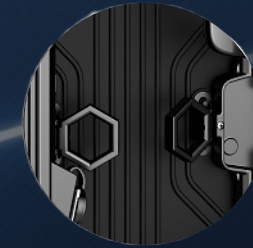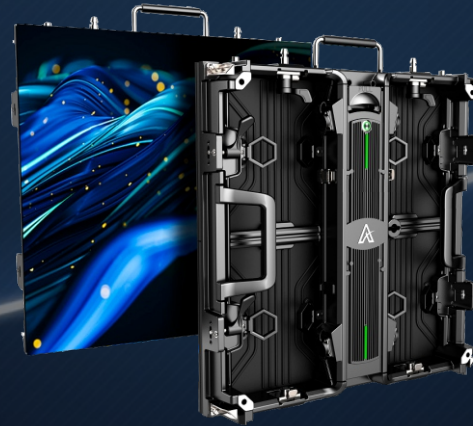REFRESH RATE
7860Hz

GRAYSCALE
16Bit
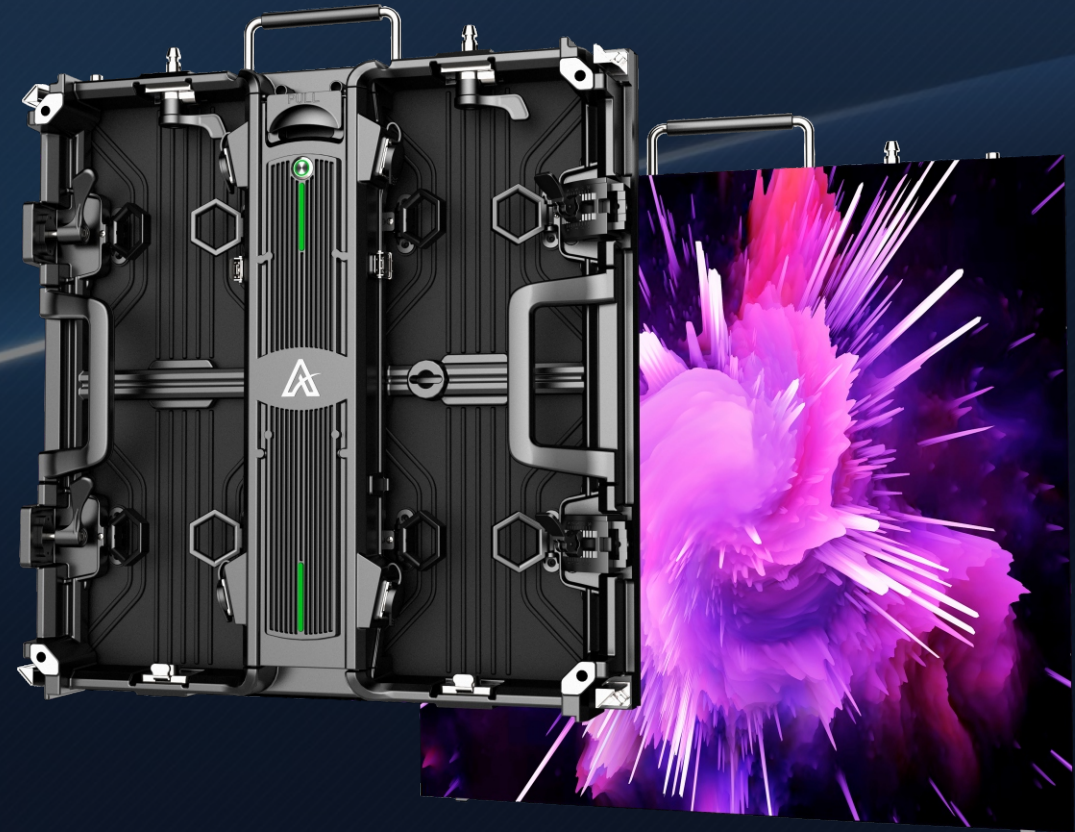
Product main features
Product resolution quality

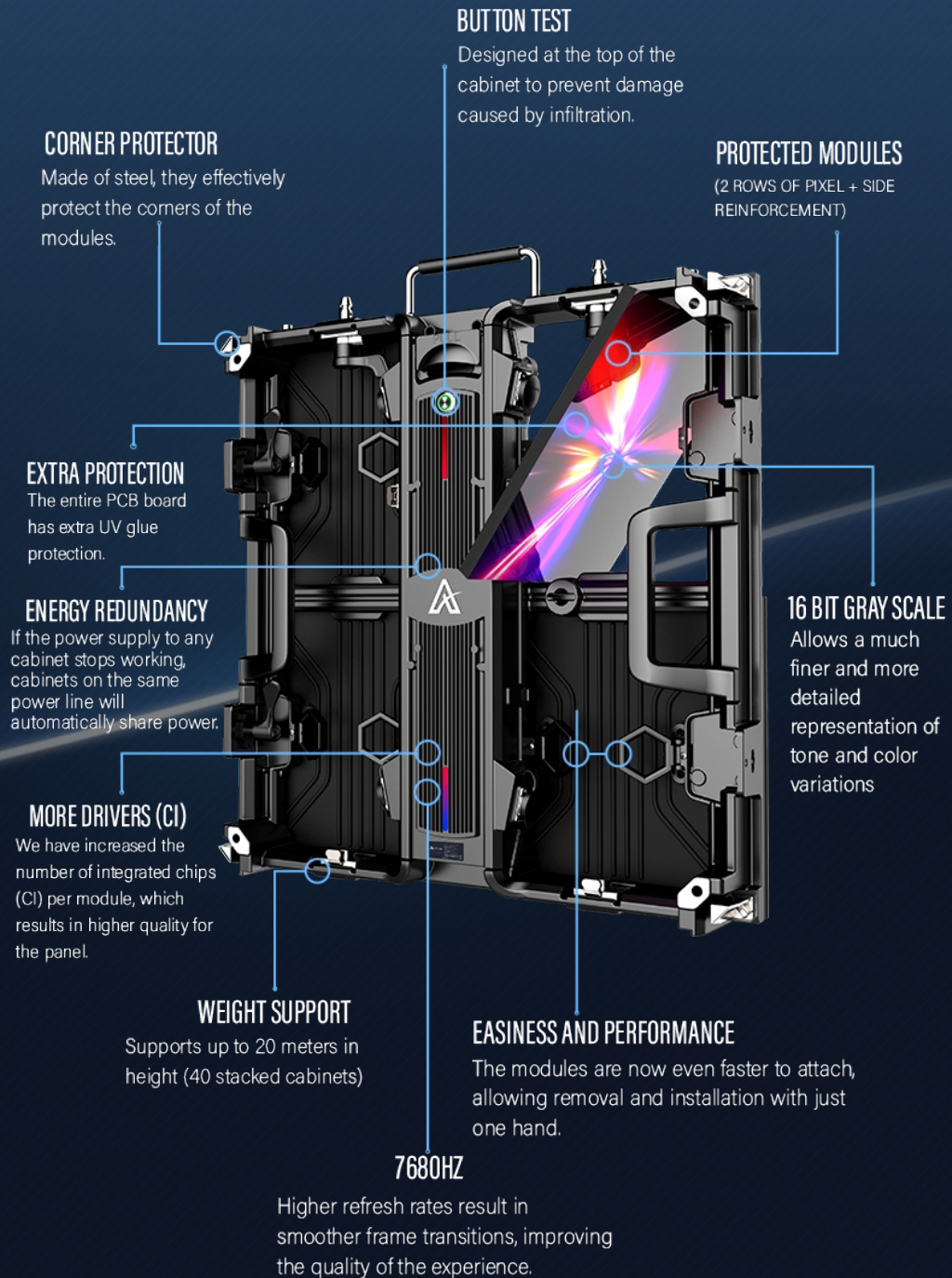**AMERICANLED** GROUP

GRAYSCALE
16Bit

The difference between an 8-bit grayscale image and a 16-bit grayscale image refers to the amount of tonal information each pixel can represent. Let's understand better:
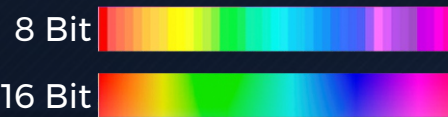
8 Bit

16 Bit

In short, the main difference is in the number of shades of gray that each pixel can represent.

A 16-bit image offers a much wider range of tonal variations compared to an 8-bit image, which can be important in applications where accuracy and visual fidelity are critical.

BUTTON TEST
Designed at the top of the cabinet to prevent damage caused by infiltration.

CORNER PROTECTOR
Made of steel, they effectively protect the corners of the modules.

PROTECTED MODULES
(2 ROWS OF PIXEL + SIDE REINFORCEMENT)

EXTRA PROTECTION
The entire PCB board has extra UV glue protection.

ENERGY REDUNDANCY
If the power supply to any cabinet stops working, cabinets on the same power line will automatically share power.

16 BIT GRAY SCALE
Allows a much finer and more detailed representation of tone and color variations

MORE DRIVERS (CI)
We have increased the number of integrated chips (CI) per module, which results in higher quality for the panel.

WEIGHT SUPPORT
Supports up to 20 meters in height (40 stacked cabinets)

EASINESS AND PERFORMANCE
The modules are now even faster to attach, allowing removal and installation with just one hand.

7680HZ
Higher refresh rates result in smoother frame transitions, improving the quality of the experience.

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Motion Smoothness: Higher refresh rates generally result in smoother movements on the screen, reducing the effect of motion blur and making the visual experience clearer and more enjoyable.

Improved Viewing Experience: Especially in high-speed contexts, such as sporting events or fast-moving content, a higher refresh rate helps prevent visual artifacts, providing a more authentic and immersive experience.

Reduced Eyestrain: Higher refresh rates can help reduce eye fatigue by reducing screen flicker, which can be a concern in artificial lighting environments or for people sensitive to these effects.

Greater Accuracy and Response in Critical Applications: In cases where accuracy and response time are crucial, such as in medical applications, engineering or simulation environments, a high update rate can guarantee a more accurate and instantaneous representation of information.

Ability to display high-resolution content and details: On large-format or high-resolution screens, a higher refresh rate can be crucial to maintaining the quality and clarity of the content displayed.
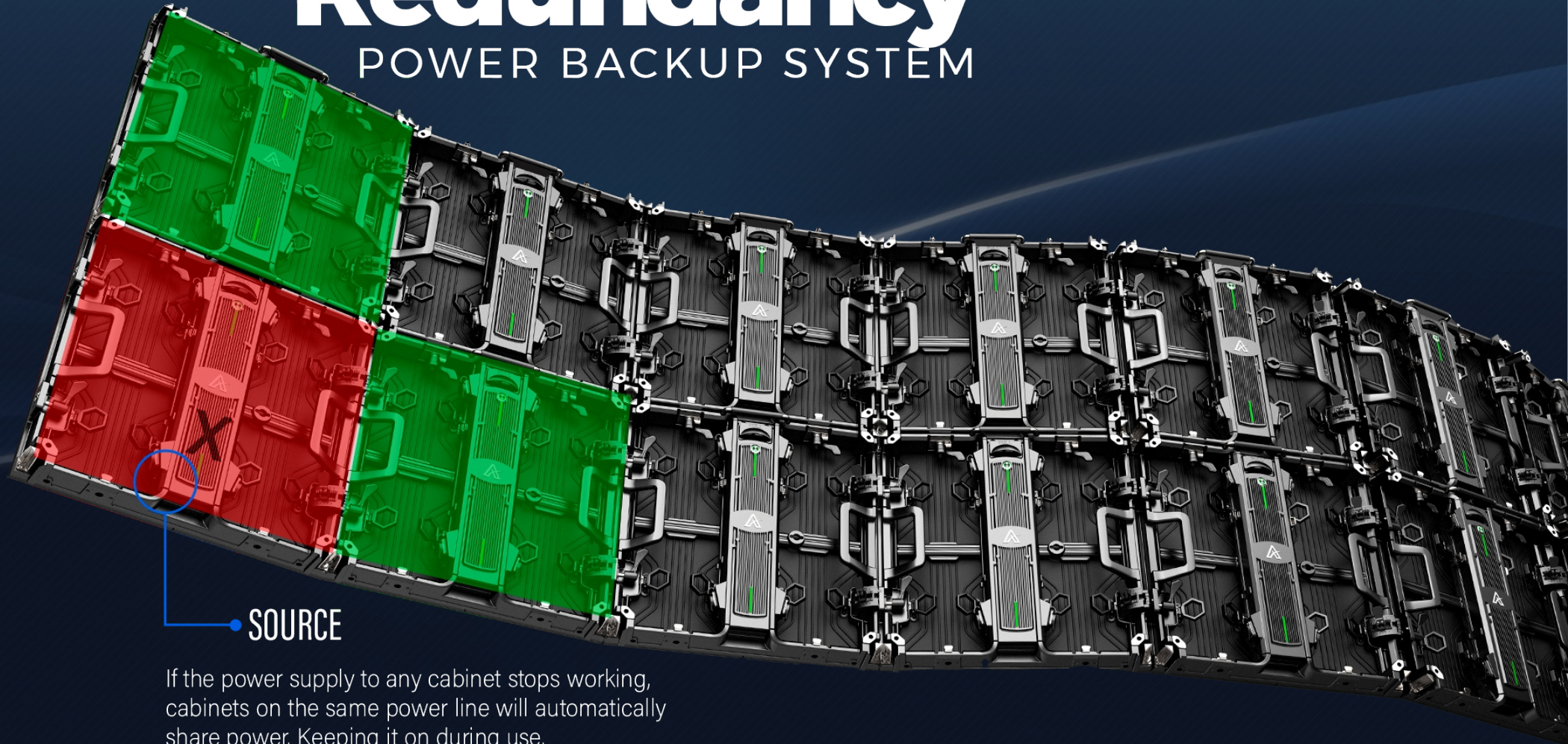
REFRESH RATE
7860Hz

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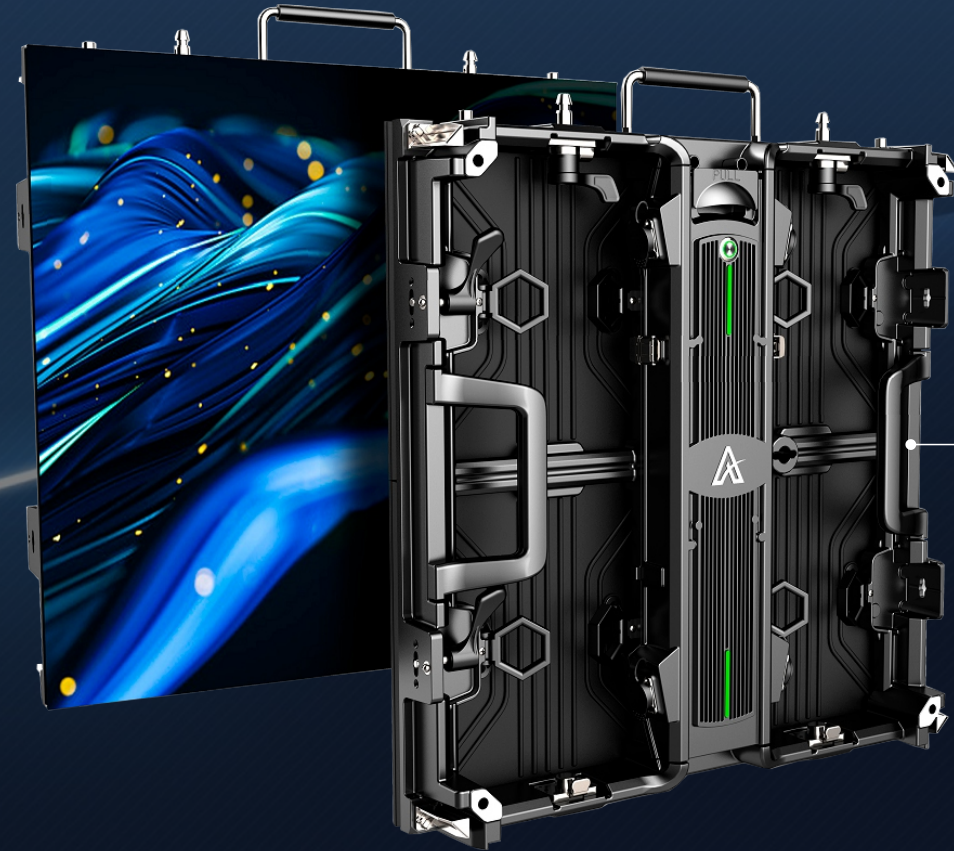
Redundancy
POWER BACKUP SYSTEM

SOURCE

If the power supply to any cabinet stops working, cabinets on the same power line will automatically share power. Keeping it on during use.
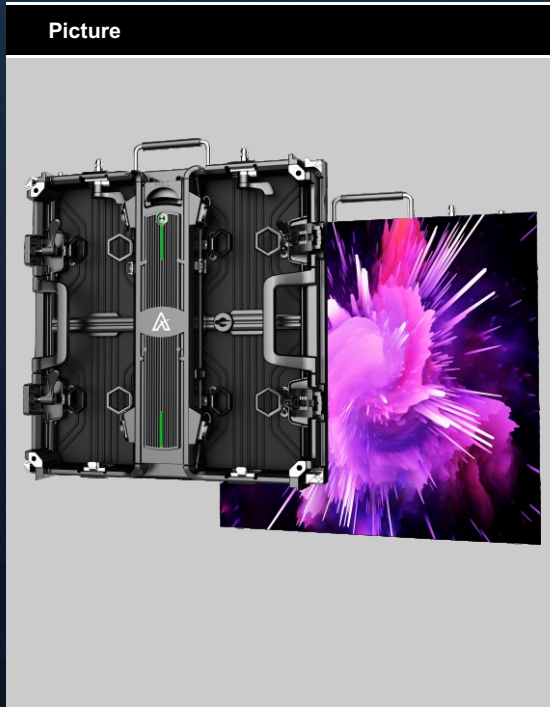
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CI INTEGRATED CHIPS

When an IC presents an error, the ICs next to it automatically go into redundancy mode to keep the panel functioning. This is possible because our panels have twice the CI.

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Picture
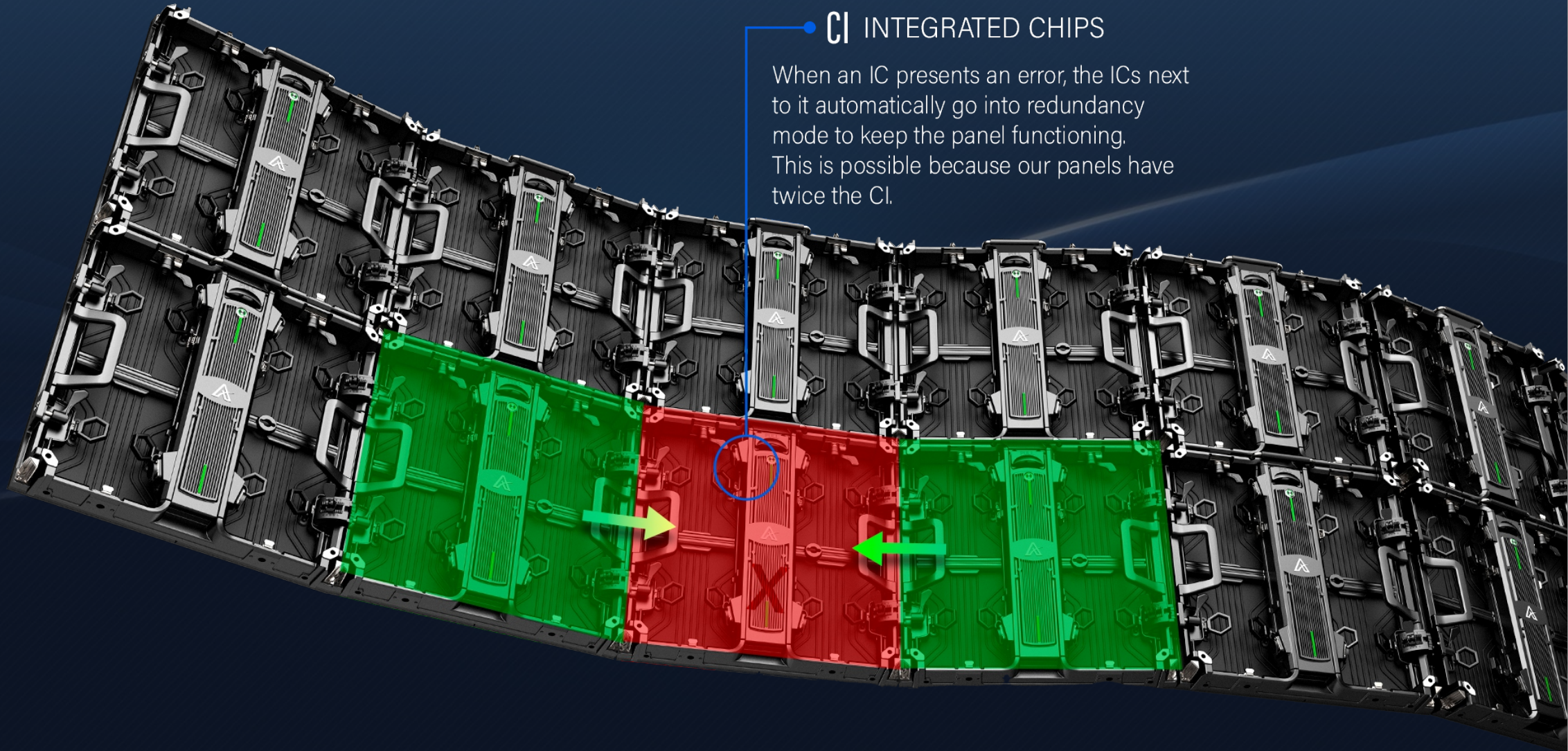
CABINET INFO			
Module compostion	W(pc)	H(pc)	Total (pcs)
	2	2	4
Cabinet Size(mm)	W(mm)	H(mm)	D(mm)
	500	500	93
Cabinet Resolution	W(Pixels)	H(Pixels)	Total Pixels
	128	128	16384
Cabinet material		Die cast Rental cabinet	
Cabinet Weight(kg)		7	
Maintenance method		Front	
Receiver card	Brand & Type	Qty	Refresh Rate
	Nova-208-1	1	7860 Hz
Power supply	Brand & Type	Qty	Input Power
	NDA200HS5	1	220V/60Hz
Cabinet Power Consumption(W/M^2)	Ave.(W)	Max(W)	
	100	200	

Specification

Picture
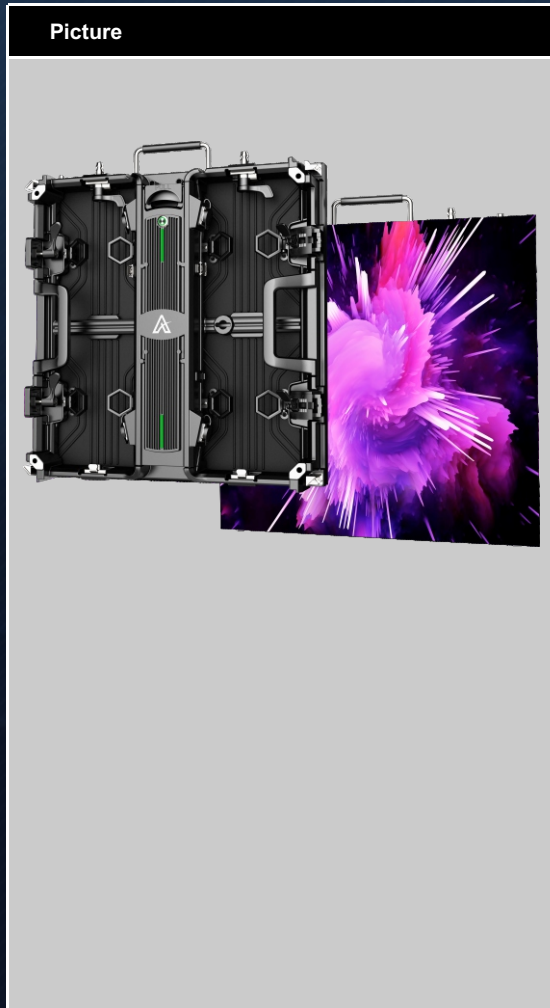
AL SERIES

SCREEN PARAMETERS			
Cabinet Compostion	W(pc)	H(pc)	Total(Pcs)
	1	1	1
Screen Size	W(m)	H(m)	M²
	0,5	0,5	0,25
	W(ft)	H(ft)	FT²
	1,64	1,64	2,71
Screen Resolution	W(Pixels)	H(Pixels)	Total(Pixels)
	128	128	16384
Screen Weight(kg)	7		
Screen Power Consumption	Ave.(Kw)	Max(kw)	
	0,03	0,05	

OPTICAL PARAMETER		
	Single Dot Brightness Amended	Yes
	Single Dot Color Amended	Yes
	White Balance Brightness（nits)	4500 nits
	Color Temperature（K）	9000-13000
	Visual Angle（Horizontal/Vertical）	140/120
	Brightness/Colorful Evenness	≥99%
	Contrast Ratio	5000:1

PERFORMANCE PARAMETER		
	Frequency（Hz）	≥60
	IC Driving	1/16 Scan
	Grayscale	≤65536
	Refreshing Ratio（Hz）	7860
	Color Processor	15 bit
	Lifespan（hrs）	100,000H
	Work Temperature/Humidity（°C/RH）	-10°C-50°C/10%RH-98%RH
	Storage Temperature/Humidity（°C/RH）	-20°C-60°C/10%RH-98%RH
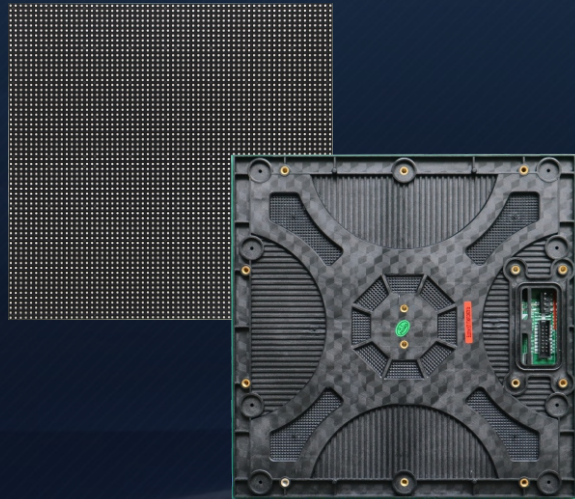
AL SERIES		Outdoor

MODULE INFO			
LED lamp	LED Brand	LED type	Viewing Angle(H/V)
	SINYOPTO	2121	140/120
Pixel Pitch	3.91		
Size(mm)	W(mm)	H(mm)	D(mm)
	250	250	15.1
Resolution	W(Pixels)	H(Pixels)	Total Pixels
	64	64	4096
Module Enclosure type	Plastic Frame		
Module weight(kg)	0,35		
Module Power consumption	Ave.(W)	Max(W)	
	12	28	
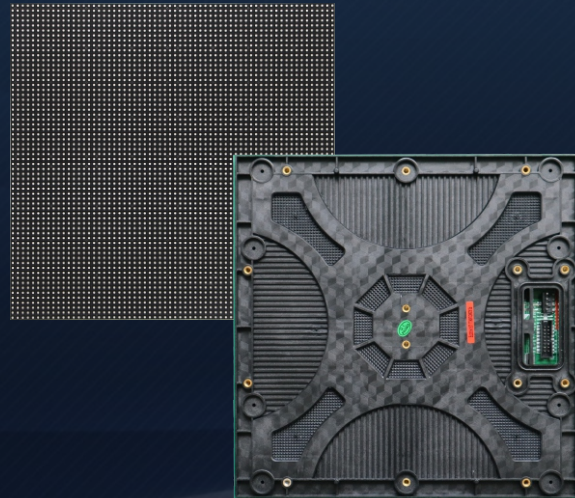
AL SERIES — **indoor**

MODULE INFO

	LED Brand	LED type	Viewing Angle(H/V)
LED lamp	RUISHENG COPPER	2121	140/120
Pixel Pitch		3.91	
	W(mm)	H(mm)	D(mm)
Size(mm)	250	250	15.1
	W(Pixels)	H(Pixels)	Total Pixels
Resolution	64	64	4096
Module Enclosure type		Plastic Frame	
Module weight(kg)		0,35	
	Ave.(W)	Max(W)	
Module Power consumption	12	28	

Product resolution quality

Other companies
Low Contrast

HD Visual
High Contrast
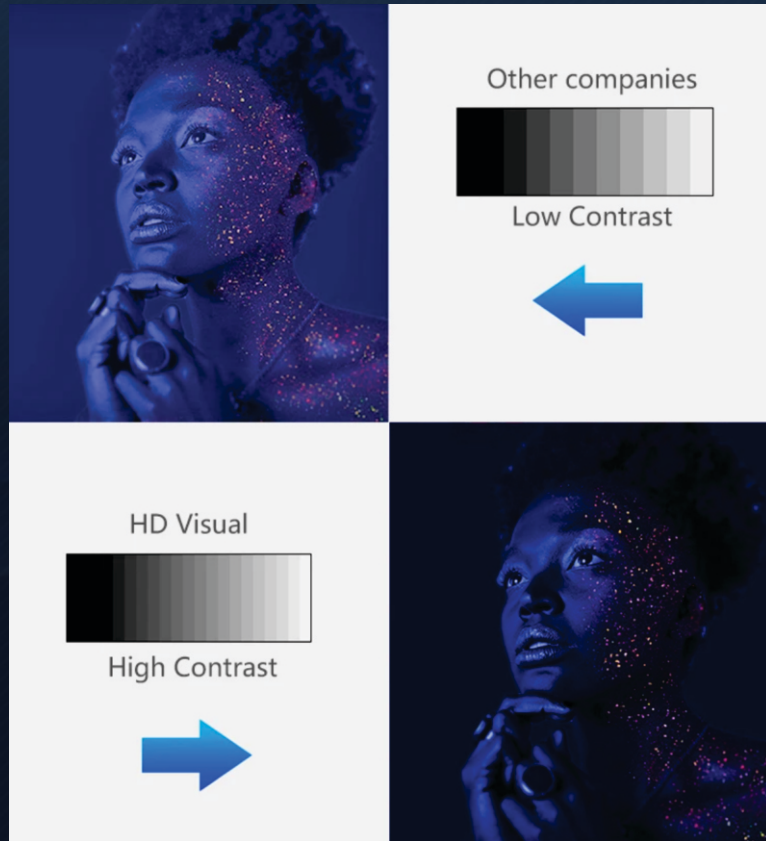
Low Refresh
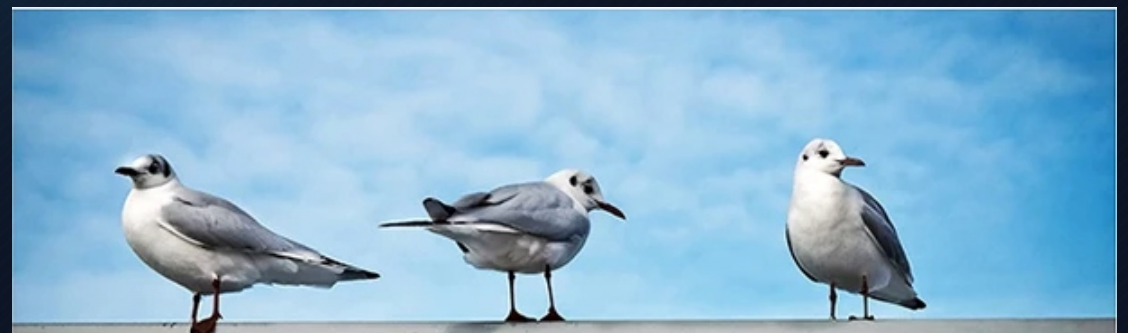
High Refresh

Product Application

Suitable for rental, events, fairs, exhibitions, theme parks and other fields.

Application scenario

Ø Branded shop window screens in retail malls.

◆▶ Application scenario

Ø Creative art displays for richer visual effects.

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Application scenario

Ø Airports, stations, exhibition halls square column screen.

Application scenario

Ø LED canopy screen is suitable for hotel lobby, large shoppingmall, commercial pedestrian street, city centre square, large stage and other large buildings on the ceiling.

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