



ARLED Pro Series

SIRIUS

HOME CINEMA LED WALLS

89% BT.2020 | 5G High Performance Version COB + with the newest XM+ technology

HDR10+
Vivid and Clear Details

144Hz 240Hz optional
High Frame Rate

7680Hz 15360Hz optional
High Refresh Rate

1000000:1
High Contrast Ratio

DCI-P3
Color Gamut

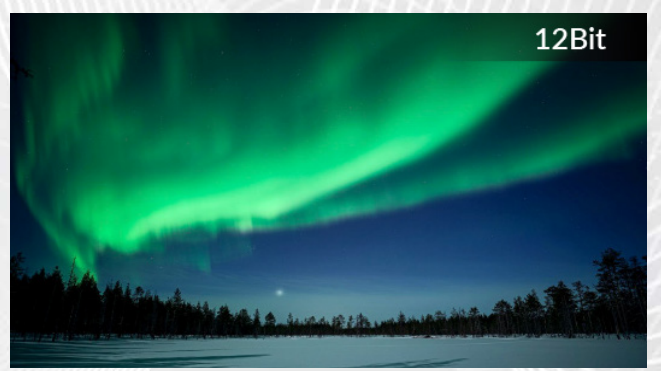
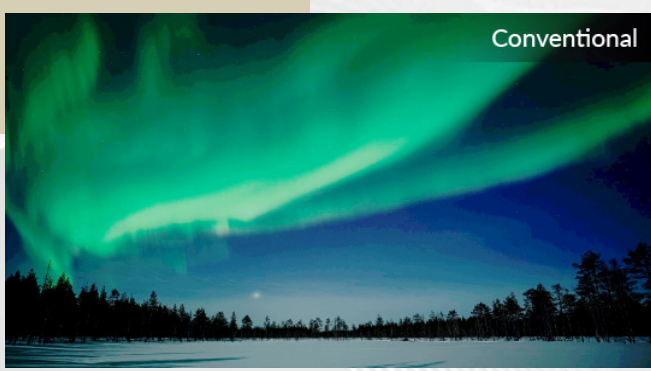
5Gb/s
High Speed Transmission

12Bit

Color Depth

Supporting 12-bit video sources, the Sirius renders a staggering 68.7 billion colours. Rich in detail, with smooth gradients, it delivers a truly immersive and awe-inspiring visual experience.

*Requires a control system that supports this function.



ULTRA HFR



144Hz

240Hz optional
High Frame Rate

Supports up to 144Hz/240Hz high frame rate display for smoother motion, reducing ghosting and trailing issues, delivering fine, fluid and crisp visual performance.

HDR 10+

High Dynamic Range Display

Paired with an HDR control system, the Sirius LED Wall can achieve HDR10+, HLG and other HDR standards, presenting images with an exceptional dynamic range, high contrast, and a wide colour gamut.



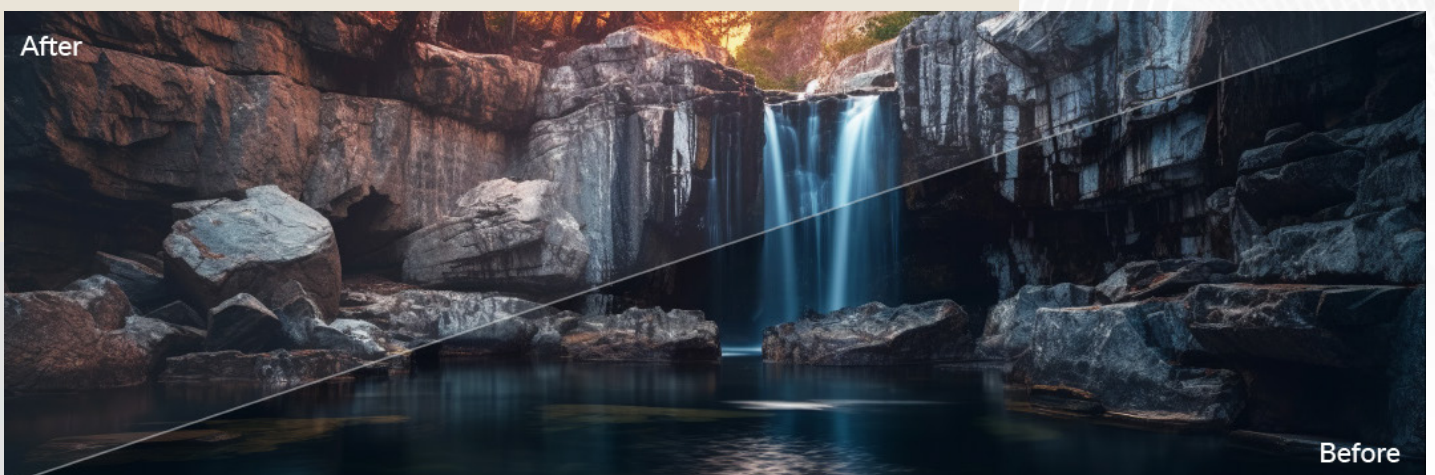
5Gb/s

High Speed Transmission

A single network cable enables ultra-high transmission rates for a streamlined, sleek cabling setup.

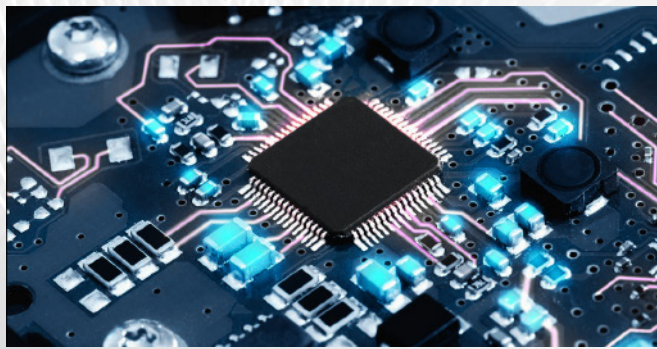
GRAY SCALE EXTENSION

Gray scale extension increases the effective output bit depth, resulting in smoother and more natural gradients, while revealing finer details in darker areas.



MULTI-LEVEL CALIBRATION

Multi-level calibration technology eliminates mottling and color blocking issues at different gray levels, ensuring uniform and consistent display across all gray scales.



Supports Receiver Card Backup & Power Backup

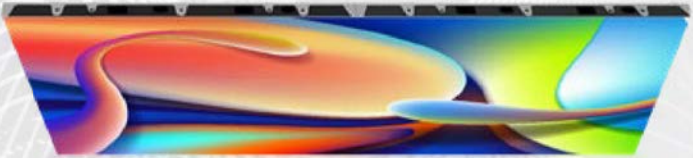
Automatically switches to a backup receiver card or power supply if the primary ones fail, ensuring uninterrupted display without blackouts.

SPECIFICATIONS

Model	AR PS8 (5G)
Pixel Pitch (mm)	P 0.84
Resolution	960*540 + 480*540
Panel Technology	Full flip-chip COB+
Unit Size (WxHxDmm)	806.3/403.1 x 453.6 x 35 HxV (+90° rotated)
Surface Treatment	Matte black finish coating
Brightness (nits)	1400
Contrast Ratio	>200000:1 (min 0.002 nits)
Colour Temperature (K)	3000 - 9300 (adjustable)
Internal processing	real 18 bit - 22+bit
Color depth	16 bit (281 trillion colours)
Frame Rate (Hz) + 3D support	23.96 - 240
Refresh Rate (Hz)	7680 / 15360
Working Voltage	AC: 100V ~ 240V, 50/60Hz
Power Consumption Max/AVG (W/m ²)	350 / 125
Power Consumption AVG (W/m ²)	100
Heat Dissipation	750 - 1250 BTU/h/m ² (max)
Control	Coex High Performance 5G
Viewing Angle (H./V.)	170°/170°
Lifetime (Hours)	100000 (video - 50% brightness)
Operating Temp (°C)	-10 ~ +50)
Humidity Range (%RH)	10 ~ 80
Unit weight (kg)	6.5 / 4.0



- Front maintenance
- Lightweight design
- Light board flash



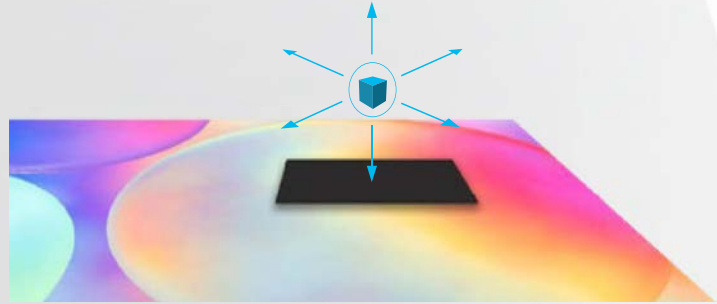
Thickness **35mm** Weight **6,5 kg**

Large size, slim design, endless possibilities.

The structure and materials of the cabinet are specially weight-reduced to achieve an ultra-light weight of 6,5 kg per cabinet, bringing great convenience for transport and installation.

Standardised ratios for easy display of UHD/FUHD images.

Combining the international standard 16:9 aspect ratio with the large-size panel design, the standard resolution of HD, UHD, or FUHD can be easily achieved with just a few panels.



Customized connector, six-way adjustment.

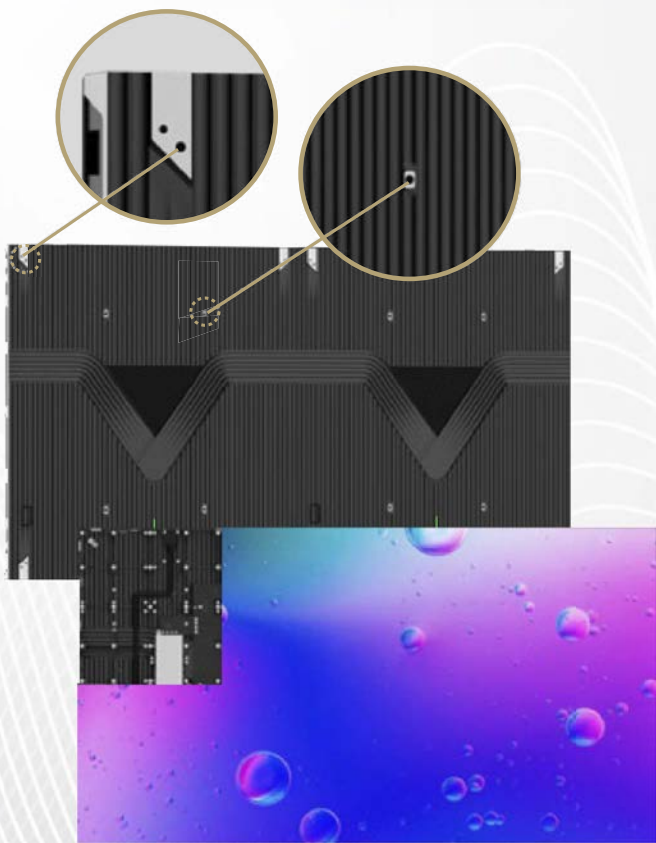
Adopting customised connectors to connect the cabinet to the module, the module can be adjusted in six directions, giving the screen superb flatness and making the visual effect guaranteed.

40%
Energy Saving (COB)

1400nits
Brightness

22Bit+
Grayscale

1000000:1
Contrast Ratio (COB)



Bi-directional holes on all four corners.

The four corners of the cabinet have bi-directional mounting holes, allowing for fixed installation from both the front and rear, making it suitable for a variety of installation scenarios. The back of the cabinet has VESA holes to support the assembly of VESA mounts.

Dual backup of power supply and receiving card.

In the event of a failure of the main receiving card or power supply, the backup system will automatically switch over to ensure that the display is not interrupted, providing stronger stability and reliability for the large-screen display.

THE XM11206 G CHIP

In terms of display effect, the highly-integrated XM11206G can achieve 18-bit high colour depth, support low grayscale effect at high refresh rate (with a 16-fold improvement in refresh rate at low grayscale, addressing flicker issues visible to the human eyes), and allows customisable scanning lines to simplify display panel design. It also supports front-end high framerate input (23Hz to 480Hz), with a visual refresh rate of up to 15360Hz, making it suitable for high framerate scenarios like 3D displays.

Regarding power consumption, the XM11206G adopts an energy-saving architecture, cutting static power consumption at black-screen mode by 20% compared to its predecessor IC Power/Pixel, making it an ideal solution for fine-pitch LED displays and low-temperature screens.



Mirage Driving Engine

Solving 8 fine pitch visual issues:

Ghosting effect, Open caterpillar effect, Cross effect, Low gray colour shift, First dimming line, High contrast couple, Cross plate gradient CCT.

Bit & Refresh Rate

Supports 18 bits, with visual refresh rate up to 15360Hz.

Supports low gray and high refresh rate, with a 16 fold increase in grey refresh rate.

Supports dynamic high frame rate input: 23-480Hz.



Global Calibration

GEN2 low grey calibration technology, 1 set of calibration parameters.



Image Booster

64 times grayscale improvement

22bit+, 64 times grayscale improvement, 0.002 nits precise control, ultra-image for stunning realism.



Colour Adjustment

The gamut of the LED display can be adjusted according to the gamut of the video source, so that the gamut between the display and video source can be perfectly matched to eliminate color bias and reproduce the original colour.



Standard Test Color	CIE31 (Lxy)			Before Color Adjustment				After Color Adjustment			
	L	x	y	L	x	y	DeltaE	L	x	y	DeltaE
#7C5947	185.2	0.4218	0.3594	200.97	0.4067	0.3211	10.676	183.42	0.42	0.3609	0.7339
#E18F50	601.38	0.5586	0.3959	682.83	0.57	0.3683	15.502	600.06	0.5564	0.3975	1.0622
#4F3416	116.62	0.1812	0.129	142.31	0.1518	0.1126	13.396	115.93	0.1797	0.1289	0.5929
#602C05	1969.6	0.3192	0.3355	2074.9	0.2842	0.2878	25.853	1928.7	0.3174	0.3354	0.9364
#C5593F	717.2	0.4089	0.357	779.96	0.3902	0.3165	17.321	705.36	0.4058	0.357	1.098
#AC8E81	214.99	0.1994	0.1722	246.76	0.1647	0.1453	15.603	213.99	0.1982	0.1721	0.47



Dynamic Booster

Standard Test Colour

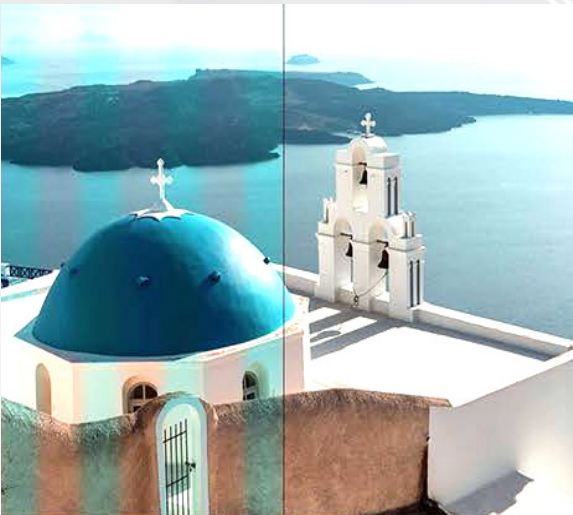
By enhancing bright and dark content details to the ideal level, an SDR source can deliver HDR-like effect, ensuring no overexposure in bright areas and no loss of detail in shadows. With real-time analysis, brightness is adjusted dynamically frame by frame, saving 20%-40% power, extending the lifespan of an LED display.



Multi-layer Full Grayscale Calibration

Medium and low grayscale remains uniform

Support multi-layer full gray scale calibration, aiming at the non-linear characteristics of Mura shape under different gray scales, each gray scale has its own calibration coefficient, so that the LED screen is uniform and delicate under different brightness.



Thermal Compensation

Long operating time, no color casting

After the LED screen has been running for a period of time, reddish textures appear on the screen due to uneven heat dissipation. Through thermal compensation technology, the thermal characteristics of LED screen are calibrated, which can effectively solve the color bias caused by uneven heat distribution of the screen.