Max Series

Outdoor P1.2 & P1.5 & P1.875
MIP+GOB

Catalogue

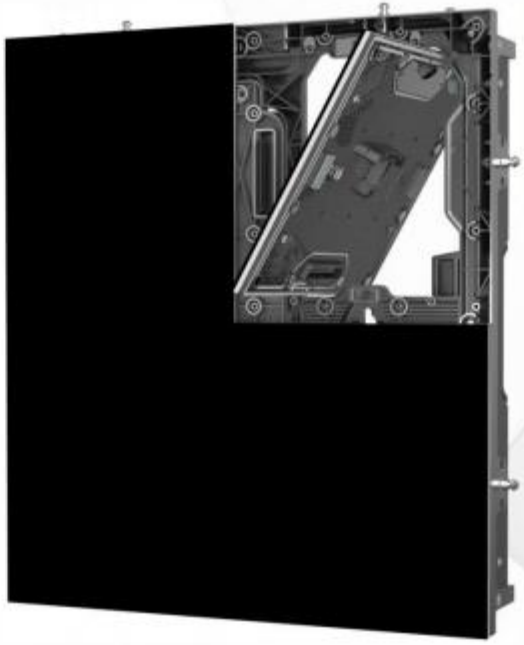
1

Product Parameters

Cabinet Appearance

Die-cast aluminium
Weight

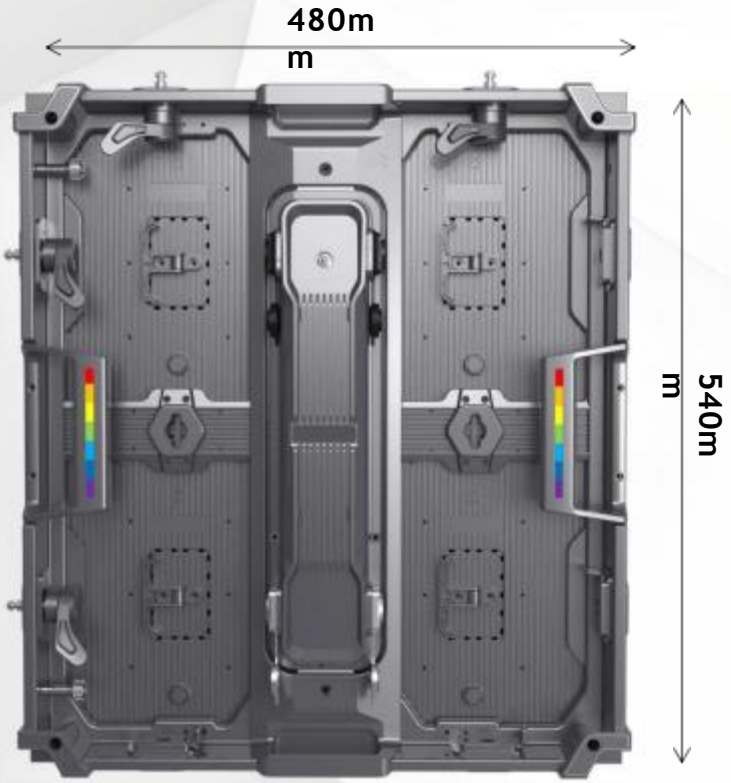
9.5KG



Magnesium alloy
Weight

7.5KG

Product Features



Item	Parameter(For Outdoor)		
Part Number	Max-12	Max-15	Max-18 （Launch Soon）
Pitch	1.25mm	1.5mm	1.875mm
Brightness	3500-4000 nits	3500-4000 nits	3500-4000 nits
LED Package	MIP0606 common cathode	MIP 1010 common cathode	MIP 1010 common cathode
LED Type	3in1	3in1	3in1
Module Size	240*270mm	240*270mm	240*270mm
Module Pixel	192*216	160*180	
Housing Material	Die-cast aluminum / **Magnesium alloy**	Die-cast aluminum / **Magnesium alloy**	Die-cast aluminum / **Magnesium alloy**
Weight	9.5kg / 8kg	9.5kg / 7.5kg	9.5kg / 8kg
AC Input Power Maximum Value	625 (W/m²)	600 (W/m²)	550 (W/m²) (**Estimated value**)
AC Input Power Typical Valu	188 (W/m²)	180 (W/m²)	165 (W/m²) (**Estimated value**)
Operation Power	AC100-240v 50/60HZ	AC100-240v 50/60HZ	AC100-240v 50/60HZ
IP Grade	Front/Back IP65	Front/Back IP65	Front/Back IP65
Grayscale	16 bit	16 bit	16 bit
Viewing Angle	160°/160°	160°/160°	160°/160°
Refresh	7680Hz	7680Hz	7680Hz
Working Temperature	-20～ +60℃	-20～ +60℃	-20～ +60℃
Humidity	10% ～ 90%	10% ～ 90%	10% ～ 90%
Maintenance	Front/Back	Front/Back	Front/Back
Operating Life	100,000 hours	100,000 hours	100,000 hours

Product Features

Item	Parameter(For Indoor)			
Part Number	Max-15 (2000 nit)	Max-15 (800 nit)	Max-18 (2000 nit) (Launch Soon)	Max-18 (800 nit) (Launch Soon)
Pitch	1.5mm	1.5mm	1.875mm	1.875mm
Brightness	2000 nits	800 nits	2000 nits	800 nits
LED Package	MIP 1010 common cathode	MIP 1010 common cathode	MIP 1010 common cathode	MIP 1010 common cathode
LED Type	3in1	3in1	3in1	3in1
Module Size	240*270mm	240*270mm	240*270mm	240*270mm
Module Pixel	160*180	160*180	128*144	128*144
Housing Material	Die-cast aluminum / **Magnesium alloy**	Die-cast aluminum / **Magnesium alloy**	Die-cast aluminum / **Magnesium alloy**	Die-cast aluminum / **Magnesium alloy**
Weight	9.5kg / 8kg	9.5kg / 8kg	9.5kg / 8kg	9.5kg / 8kg
AC Input Power Maximum Value	363（W/m²）(**Estimated value**)	190（W/m²）(**Estimated value**)	350（W/m²）(**Estimated value**)	180（W/m²）(**Estimated value**)
AC Input Power Typical Valu	109（W/m²）(**Estimated value**)	57（W/m²）(**Estimated value**)	105（W/m²）(**Estimated value**)	54（W/m²）(**Estimated value**)
Operation Power	AC100~240v 50/60HZ	AC100~240v 50/60HZ	AC100~240v 50/60HZ	AC100~240v 50/60HZ
IP Grade	Front/Back IP54	Front/Back IP54	Front/Back IP54	Front/Back IP54
Grayscale	16 bit	16 bit	16 bit	16 bit
Viewing Angle	160°/160°	160°/160°	160°/160°	160°/160°
Refresh	7680Hz	7680Hz	7680Hz	7680Hz
Working Temperature	-20～ +60℃	-20～ +60℃	-20～ +60℃	-20～ +60℃
Humidity	10% ～ 90%	10% ～ 90%	10% ～ 90%	10% ～ 90%
Maintenance	Front/Back	Front/Back	Front/Back	Front/Back
Operating Life	100,000 hours	100,000 hours	100,000 hours	100,000 hours

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Product Features

VS

GOB from market

Because of the GOB process itself, edge whitening can occur.
If the potting layer is not perfectly uniform, it may also create visible white seams between modules.

GOB from us

With an improved GOB potting process and edge finishing on each module, we can nearly remove all visible seams.
Typical GOB modules have about 40 μm (0.04 mm) of alignment error, while ours is reduced to just 10 μm (0.01 mm).
We keep improving our GOB process, solving key issues for outdoor Fine-pitch displays such as heat resistance and graffiti protection.

Full front & back maintenance

- ☑ Modules Full front & back maintenance
- ☑ Power supply Full front & back Maintenance
- ☑ Full front & back installation

IP65 for front & back

Highly resistant to extreme temperatures, water, dust, and corrosion.

-Waterproof -Dustproof -Corrosion resistance -UV resistance

16:9 Display Ratio By Horizontal or Vertical

Can be replaced the on street LCD screen or Outdoor TV without changing the out shelter.

Street LCD	Cabinet Direction W*H(mm)	Cabinet QTY W*H(mm)	LED Screen W*H(mm)	Screen Pixel P1.2 W*H	Screen Pixel P1.5 W*H	Screen Pixel P1.8 W*H
43”	540×480	1×2	540×960	432x768	360×640	288×592
75"	480×540	2×3	960×1620	768×1296	640×1080	523×864
86"	540×480	2×4	1080×1920	864×1536	720×1280	576×1024
136"	540×480	3×6	1620×2880	1296×2304	1080×1920	864×1536
165"	540×480	4×8	2160×3840	1728×3072	1440×2560	1152×2048

Resolution	Standard Resolution W*H(mm)	Cabinet Resolution W*H(mm)	Cabinet QTY W*H(mm)	LED Screen Resolution WxH(mm)
2K(P1.5)	1920×1080	320×360	6×3	2880×1620
4K(P1.2)	3840×2160	384×432	10×5	4800×2700

2K,4K,8K.
...

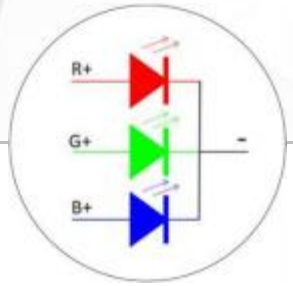
Support all kinds of installations easily

Stacking

Hanging

Support all kinds of installations easily

Product Features



Energy Saving Design

Common-cathode design saves energy and reduces heat.

Warranty

Base warranty: 2 years. Each extra year +5% cost, up to 10 years.

Long Lifetime

Our in-house monitoring system can ensure much longer life-time of the equipment.

Advantages

Max series compared to ordinary Outdoor LCD TV

Comparison	Outdoor LCD Display	Outdoor LED Display
Color & Contrast	1000~2000:1	10000~15000:1
Brightness	3000 nit after toughened glass	4000 nit after GOB
Size	Usually < 86 inches	Flexible
Weight & Thickness	Heavier and thicker; installation and transport more difficult	Lightweight and slim; suitable for large and curved installations
Durability & Weather Resistance	-20℃~50℃	-40℃~60℃
Ave. Power Consumption	Relatively high; backlight consumes significant power	Lower; self-emissive LEDs, adjustable brightness saves energy
Lifespan	50,000~80,000 hours	100,000 hours
Maintenance Cost	Panel replacement expensive; complex repair	Modular design; individual modules can be replaced; flexible maintenance

Why choose MIP for outdoor fine pitch LED screen?

Dimension	MIP — Micro Integrated Package	COB — Chip on Board	Typical Difference
Color Gamut	DCI-P3: 92%-98%	DCI-P3: 80%-85%	MIP offers 10-15% wider color gamut
	Rec.2020: 65%-75%	Rec.2020: 50%-55%	
Color Accuracy (ΔE)	ΔE < 1.0 (professional-grade)	ΔE ≈ 1.5-2.5	40-60% more accurate color reproduction
Color Uniformity	> 97% module-to-module	85-90%	7-12% improvement
Contrast Ratio	8,000:1 - 10,000:1	4,000:1 - 6,000:1	40-60% higher contrast
Surface Reflection	1%-2% (black encapsulation)	4%-6% (PCB exposed)	MIP reduces reflections by ~50%
Brightness Decay (1 year)	3-5%	8-12%	Up to 50% slower decay
Failure Rate (annual)	< 0.2%	0.5%-1.0%	2-5 × more reliable
Power Consumption	10-20% lower	Relatively higher	MIP is more energy-efficient
Heat Dissipation	Even heat distribution	Uneven distribution	Better thermal management
	5-8 ° C difference	10-15 ° C difference	
Pixel Repairability	Single-pixel repair supported	Pixel repair extremely difficult	Greatly reduced maintenance cost
		(often requires module replacement)	
Flatness	< 0.05 mm	0.10-0.20 mm	Superior flatness for seamless display
Viewing Experience	Smooth, no graininess	Visible micro-reflections and graininess	—

Fixed & Rental Applications

Max series can be optionally equipped with quick locks, making it suitable for both fixed and rental application scenarios.

Rental Application: Application Scenarios & Core Advantages

In future rental applications, the demand for products with a pitch below P1.5 will increase, which is also the product trend.

I. Core Application Scenarios for P1.5 & below

1. High-end Brand Outdoor Launch Events/Roadshows (Top Scenario)
-Typical Clients: New energy/luxury cars, luxury goods, high-end watches, premium alcohol, high-end 3C products, high-end commercial performances

2. Luxury/High-end Retail Outdoor Pop-up Stores
-Applicable Scenarios: Mall entrances, street-front shop window facades, temporary brand spaces

II. Core Value of P1.5 & below

1. Exquisite Visuals: Window-level display effect, aligning with high-end brand positioning

2. Key Reasons: Guests' viewing distance is 2—4 meters, requiring high-definition restoration of details and gradients; suitable for media shooting and social communication, avoiding graininess of P2.6 in shots

Advantages

Energy Saving

Full IP65

Smaller Pitch

Seamless GOB

16:9

Front & Back Maintenance

Multiple installation methods

Long Lifetime

Excellent display effect

Rental & Fixed

Application

Big outdoor TV in Villas which closed to sea, super hot cities

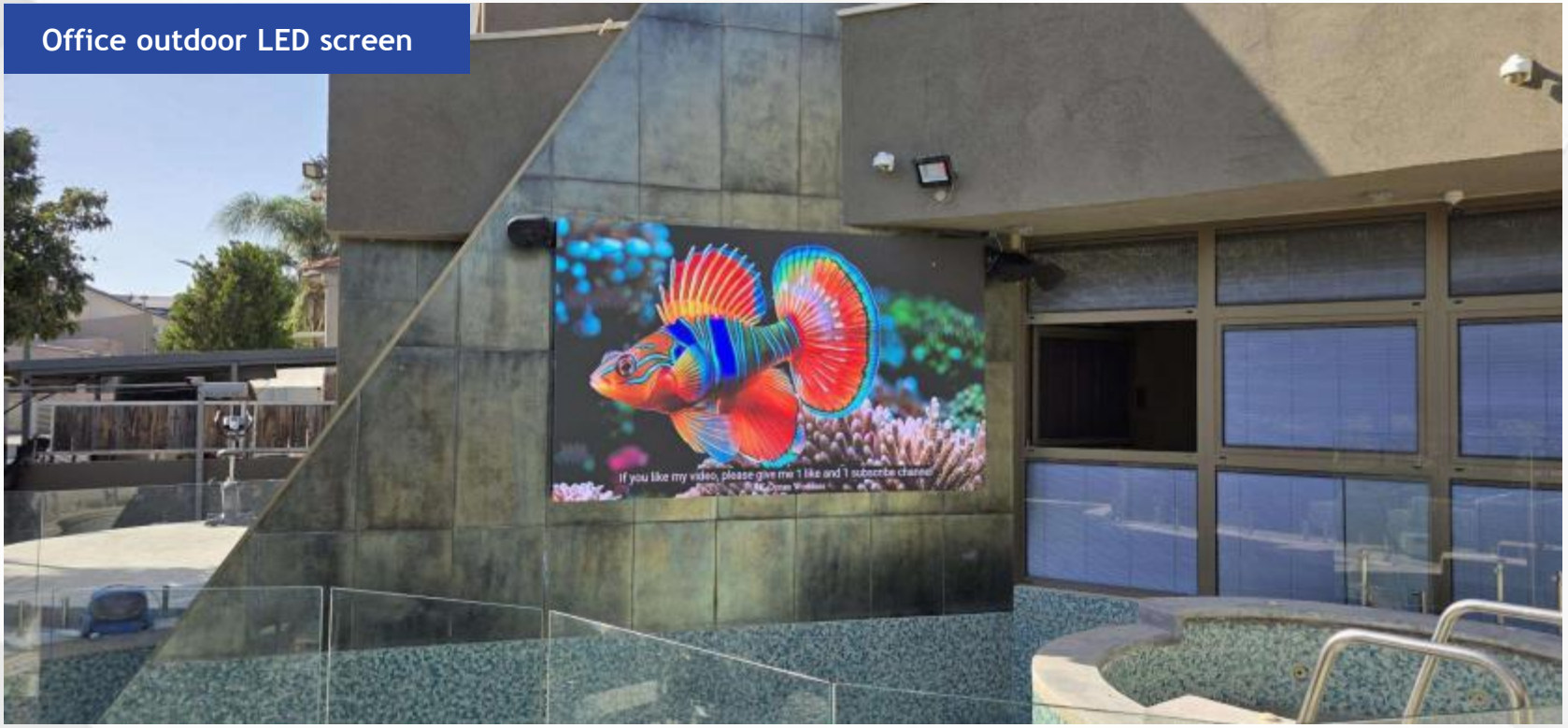
Big outdoor TV in Villas

Application

Big size outdoor TV

Guiding LED screen

Office outdoor LED screen



On Street Window Screen

Outdoor Digital Signage

THANKS FOR WATCHING