



Product Catalog 2023

APT LED Solutions, LLC

33920 US Highway 19 N, Ste 250, Palm Harbor, Florida, USA, 34684

+1 727 385 0390

pstals@aptledsolutions.com

Catalog Index

All In One Display

Custom Transit Sign

Q-PRO/E Outdoor Full Color LED Module

S Series Outdoor Full Color LED Module

Q-PRO Indoor Full Color LED Module

Q-H/E Series Indoor Full Color LED Module

S Series Indoor Full Color LED Module

Indoor Flexible Full Color LED Module

Single Color Series Outdoor LED Module

DM Series Rental Cabinet

DM Series Indoor and Outdoor LED Module

MG Series Indoor Fixed Install Cabinet

DA-I Series Indoor Fixed Install Cabinet

MG-O Series Outdoor Fixed Install Cabinet

Stadium Field Perimeter LED Screen

Transparent Screen

APT LED SOLUTIONS

All In One Display



Model	APT-110	APT-138	APT-163
Screen Size	110 inches	138 inches	163 inches
Panel Type	COB	COB	COB
Screen Resolution	1920 x 1080	3840 x 2160	3840 x 2160
Pixel Pitch Exhibited (mm)	1.2	0.79 (Based on Super COB)	0.93 (Based on Super COB)
Bare Metal Size (mm)	2466 x 1522 x 64	3074 x 1864 x 64	3634 x 2179 x 66
Screen Brightness (cd/m ²)		450	
Visual Angle (H / V)	170°/160°	170°/160°	170°/160°
Refresh Rate (Hz)	3000	3000	3000
Power Max. (W)	1400	1800	2400
Net Weight (kg)	126	185	253
Installation/Maintenance Mode	Wall Hanging, Moving Bracket (Optional); Front Maintenance		
Built-in System	Android 8.0 / Windows 10 Dual System		
Touch Technology	Infrared Touch, 10 Points		
Screen Mirroring	9-screen		
Screen Transfer Terminal	Android phone, iPhone, iPad, iMac, Windows computer		
One-button Shutdown	Can be One-button Into the Shutdown State, One-button to Wake Up		
Built-in Stereo	Built-in 2*15W		
Audio and Video Input	HDMI*2		
Audio and Video Output	HDMI*1 TRS*1		
USB Interface	USB-B*1, USB2.0*4, USB3.0*3		
Network Interface	LAN*2		



Multi-Touch



One-click boot



One-line link



Sound surround



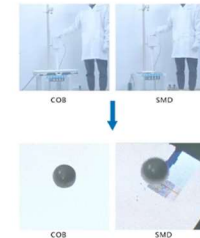
Front USB interface

All in One Design.

- Multi-Touch
- One-click boot
- One-line link
- Sound surround
- Front USB interface

High Reliability.

- The surface is subject to a weight impact test of greater than 10kg.
- This advantage of COB product can prevent the collision during the transportation and installation.
- The front of the integrated machine is waterproof and can be cleaned with water.



Easy to clean with water



Dual system

- Android 8.0 and Windows10

Complete Set of Accessories.

- Remote controller, screen sharer, touch pen, 4K camera (optional) 360° wireless speaker (optional), mobile stand (optional)



Smart remote



Screen transmitter



Touch pen



4k camera (Optional)



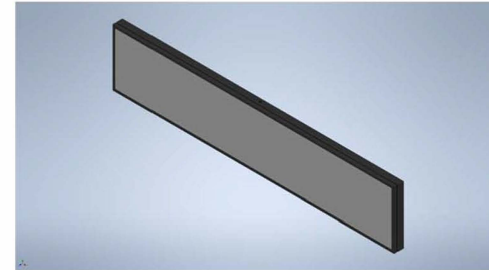
360° wireless microphone (Optional)



Moving bracket (Optional)

APT LED SOLUTIONS

Custom Transit Sign



Items	APT BESPOKE TRANIST SIGN							
	P2.5	P3.0	P4.0	P5.0	P6.0	P8.0	P10.0	
Pixel Pitch (mm)	2.5	3.0	4.0	5.0	6.0	8.0	10.0	
Scan	1/16	1/13	1/10	1/8	1/8	1/5	1/2	
Cabinet Size	Made to Order							
Cabinet Resolution								
Pixel Density (Dots / m ²)								
Energy Consumption Level								
Supply Voltage (v)								
Brightness (cd / M2 - nits)	4,500 ~ 5,000							
Color Tempreature (k)	6,500 ~ 18,000 Adjustable							
Contrast	≥ 5,000 : 1							
Driving IC	Energy Saving High Refresh Rate PWM-55							
Gray Level (bit)	13 ~ 14 Adjustable							
Refresh Rate (Hz)	≥ 3,840							
Maiximum Power Consumption (W / m ²)	Made to Order							
Average Power Consumption (W / m ²)								
Warranty	Per Customer Basis							

Direct View LED Sign Front

Outdoor Direct View LED Panel Screen
Image Not Affected by Direct Sunlight
Pixel Pitches Available

- P2.5 Image Viewed from +2.5 meters Shows No Pixelation
- P3.0 Image Viewed from +3.0 meters Shows No Pixelation
- P4.0 Image Viewed from +3.0 meters Shows No Pixelation

Brightness

5,000 to 10,000 nits [available options]

Refresh Rate

1,920 Hz to 8,000 Hz [available options]

Contrast Ratio

5,000 : 1

Available Connections

Ethernet
Wi-Fi
Bluetooth
Cellular 2G – 3G – 4G – 5G

Available Operating Systems

Android
Windows OPS [Open Pluggable Specification]

Available Image + Video Formats

IMAGE
GIF – JPEG – PNG - BMP
VIDEO
MPG – AVI – MOV – MKV – DAT – MP4 – VOB - ASF

Normal Operating Temperature

-30 C to 60 C
-22 F to 120 F

Aluminum Cabinet

Great Heat Dissipation
Non-Corrosive
IP65
Powder Coated Any Color to Automotive Standards

Components

All Components UL Certified or Recognized

Sizes

Bespoke Design per Customer Specifications

OUTDOOR FULL COLOR Q-PRO/E SERIES



Items	Q-Pro Series (Outdoor)								Q-E Series (Outdoor)							
	Q2.5	Q3.0	Q4	Q5	Q6	Q6.6	Q8	Q10	Q2.5	Q3.0	Q4	Q5	Q6	Q6.6	Q8	Q10
Pixel Pitch (mm)	2.5	3.0	4	5	6	6.6	8	10	2.5	3.0	4	5	6	6.6	8	10
Scan	1/16	1/13	1/10	1/8	1/8	1/6	1/5	1/2	1/16	1/13	1/10	1/8	1/8	1/6	1/5	1/2
Module Size (mm)	320*160			192*192			320*160		320*160			192*192		320*160		
Module Resolution(Dots)	128*64	104*52	80*40	64*32	32*32	48*24	40*20	32*16	128*64	104*52	80*40	64*32	32*32	48*24	40*20	32*16
Pixel Density (Dots/m ²)	160000	105625	62500	40000	27777	22500	15625	10000	160000	105625	62500	40000	27777	22500	15625	10000
Energy Consumption Level	Grade 1								Grade 1							
Supply Voltage (v)	≥4.5								≥4.5							
Brightness (cd/m ²)	4500-5000								4200-4500							
Color Temperature (k)	6500-18000 Adjustable								6500-18000 Adjustable							
Contrast	≥5000: 1								≥5000: 1							
Driving IC	Energy-Saving High Refresh Rate PWM-SS								Energy-Saving Driving IC							
Gray Level (Bit)	13-14 Adjustable								12-13 Adjustable							
Refresh Rate(Hz)	≥3840								≥1920							
Maximum Power Consumption (W/m ²)	≤648	≤786	≤909	≤836	≤946	≤892	≤866	≤857	≤648	≤786	≤909	≤836	≤946	≤892	≤866	≤857
Average Power Consumption (W/m ²)	≤216	≤262	≤303	≤279	≤315	≤297	≤289	≤286	≤216	≤262	≤303	≤279	≤315	≤297	≤289	≤286
Warranty	1 Year															

01 [Product Module]

Q-Pro: Q2.5, Q3.0, Q4, Q5, Q6, Q6.6, Q8, Q10 Q-E: Q2.5, Q3.0, Q4, Q5, Q6, Q6.6, Q8, Q10

02 [Product Advantages]

Q-Pro utilizes a PWM-SS dual energy-efficient driver IC, boasting a 4K refresh rate for ripple-free photography. It also supports a low-voltage start at 4.2V, offering additional energy savings.

Compatible with a 4.5V low voltage, offering energy efficiency.

The IC transistors feature broad spacing, robust over-current capabilities, and excellent voltage resistance. With mature manufacturing techniques, they offer enhanced stability and performance.

Compatible with MG cabinets, the system allows for effortless DIY customization, independent installation, and easy front-end maintenance.

03 [Application]

Commonly deployed in settings such as information hubs, demo centers, command stations, indoor auditoriums, TV studios, exhibition spaces, cinemas, government offices, conference rooms, entertainment facilities, educational institutions, hospitals, and performing arts venues, among others..

OUTDOOR FULL COLOR S SERIES



Items	S Series (Outdoor)							
	S2	S2.5	S3.0	S4	S5	S6.6	S8	S10
Pixel Pitch (mm)	2	2.5	3.07	4	5	6.6	8	10
Scan	1/20	1/16	1/13	1/10	1/8	1/6	1/5	1/2
Module Size (mm)	320*160							
Module Resolution (Dots)	160*80	128*64	104*52	80*40	64*32	48*24	40*20	32*16
Pixel Density (Dots/m ²)	250000	160000	105625	62500	40000	22500	15625	10000
Energy Consumption Level	Grade 1							
Supply Voltage (v)	≥4.5							
Brightness (cd/m ²)	5500-6000		6000-7000					
Color Temperature (k)	6500-18000 Adjustable							
Contrast	≥5000: 1							
Driving IC	Energy-Saving High Refresh Rate PWM-SS							
Gray Scale (Bit)	≥14 Adjustable							
Refresh Rate (Hz)	≥4200							
Maximum Power Consumption (W/m ²)	≤918	≤648	≤786	≤909	≤836	≤946	≤866	≤857
Average Power Consumption (W/m ²)	≤306	≤216	≤262	≤303	≤279	≤316	≤289	≤286
Warranty	1 Year							

01 [Product Module]

S2, S2.5, S3.0, S4,S 5, S6.6, S8, S10

02 [Product Advantages]

Featuring a gold wire lamp, the system is reliable, stable, and comes with a quality guarantee. It employs PWM/PWM-SS driver ICs and a 4K refresh rate, ensuring ripple-free photography. With support for a 4.5V low voltage, the screen dynamically goes into standby mode to save energy. The IC transistors are spaciouly arranged and can handle large currents, offering excellent voltage resistance, mature manufacturing, and enhanced stability. The display boasts a 140-degree viewing angle, offering an impeccable viewing experience from multiple directions. We independently developed and produce the masks, which provide effective dust protection and excellent color uniformity. Its vertical and horizontal stiffeners are thoughtfully designed for stability and reliability. Engineered with perfect drainage holes and reinforcement rib design, the thick bottom shell is ideal for constructing large screens.

03 [Application]

Usually used in outdoor advertising media, government and enterprise engineering, cultural tourism, sports venues, commercial real estate and other fields.

INDOOR FULL COLOR Q-PRO SERIES



Items	Q-Pro Series (Indoor)											
	Q0.8	Q1	Q1.2	Q1.3	Q1.5	Q1.6	Q1.8	Q2	Q2.5	Q3	Q3.0	Q4
Pixel Pitch (mm)	0.8	1	1.2	1.3	1.5	1.6	1.8	2	2.5	3	3.07	4
Scan	1/45	1/40	1/64	1/29	1/52	1/32	1/43	1/40	1/32	1/32	1/26	1/20
Module Size (mm)	320*160									192*192		320*160
Module Resolution (Dots)	360*180	320*160	256*128	232*116	208*104	192*96	172*86	160*80	128*64	64*64	104*52	80*40
Pixel Density (Dots/m ²)	1265625	1000000	640000	525625	422500	360000	288906	250000	160000	111111	105625	62500
Energy Consumption Level	Grade 1											
Supply Voltage (v)	≥4.5											
Brightness (cd/m ²)	600-700											
Color Temperature (k)	6500-18000 Adjustable											
Contrast	≥5000: 1											
Driving IC	Energy-Saving High Refresh Rate PWM-SS											
Gray Scale (Bit)	13-14 Adjustable											
Refresh Rate (Hz)	≥3840											
Maximum Power Consumption (W/m ²)	≤703	≤791	≤580	≤580	≤580	≤580	≤439	≤439	≤457	≤525	≤413	≤465
Average Power Consumption (W/m ²)	≤235	≤264	≤194	≤194	≤194	≤194	≤147	≤147	≤153	≤175	≤138	≤155
Warranty	1 Year											

01 [Product Module]

Q0.8, Q1, Q1.2, Q1.3, Q1.5, Q1.6, Q1.8, Q2, Q2.5, Q3, Q3.0, Q4Pro

02 [Product Advantages]

Q-Pro utilizes a PWM-SS dual energy-efficient driver IC and offers a 4K refresh rate for ripple-free photography. It also supports a low-voltage start at 4.2V, enhancing its energy-saving capabilities. Compatible with a 4.5V low voltage, the system is designed for energy efficiency. The IC transistors feature broad spacing, robust over-current capabilities, and excellent voltage resistance. Thanks to mature manufacturing techniques, they offer superior stability and performance. The product line is comprehensive, featuring a standard universal size of 320x160mm. Designed to be compatible with QM III cabinets, the system allows for easy DIY customization, independent installation, and straightforward front-end maintenance.

03 [Application]

Typically used in environments such as information hubs, demonstration facilities, command centers, indoor auditoriums, TV studios, exhibition spaces, movie theaters, government offices, conference areas, entertainment locations, educational institutions, healthcare facilities, and performing arts venues, among others.

INDOOR FULL COLOR Q-H/E SERIES



Items	Q-H Series (Indoor)			Q-E Series (Indoor)			
	Q1.8	Q2	Q2.5	Q2.5	Q3	Q3.0	Q4
Pixel Pitch (mm)	1.8	2	2.5	2.5	3	3.07	4
Scan	1/43	1/40	1/64	1/32	1/32	1/26	1/20
Module Size (mm)				320*160	192*192	320*160	
Module Resolution (Dots)	172*86	160*80	128*64	128*64	64*64	104*52	80*40
Pixel Density (Dots/m ²)	288906	250000	160000	160000	111111	105625	62500
Energy Consumption Level	Grade 1			Grade 1			
Supply Voltage (v)	≥4.5			≥4.5			
Brightness (cd/m ²)	500-600			500-600			
Color Temperature (k)	6500~18000 Adjustable			6500~18000 Adjustable			
Contrast	≥5000: 1			≥5000: 1			
Driving IC	Energy-Saving Driving IC			Energy-Saving Driving IC			
Gray Scale (Bit)	12~13 Adjustable			12~13 Adjustable			
Refresh Rate (Hz)	≥3000			≥1920			
Maximum Power Consumption (W/m ²)	≤439	≤439	≤457	≤457	≤525	≤413	≤465
Average Power Consumption (W/m ²)	≤147	≤147	≤153	≤153	≤175	≤138	≤155
Warranty	1 Year						

01 [Product Module]

Q-H: Q1.8, Q2, Q2.5 Q-E: Q2.5, Q3, Q3.0, Q4

02 [Product Advantages]

The Q-H series features a PWM energy-saving high-refresh driver IC, delivering high-definition visuals with crisp and nuanced imaging.

The Q-E series is equipped with an updated deghosting IC that eliminates ghost lines and cross reflections, ensuring a high-quality display.

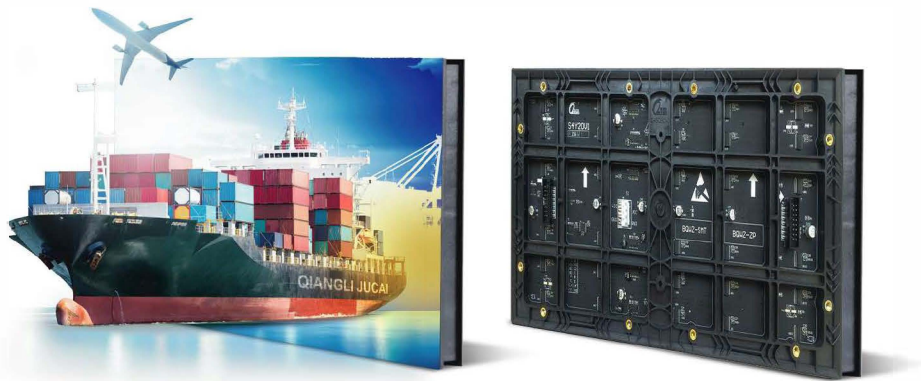
IC transistors in the system are designed with ample spacing, strong overcurrent capacity, excellent voltage resistance, and proven manufacturing techniques, contributing to overall stable performance. The product lineup is comprehensive, offering a standard universal size of 320x160mm.

Compatible with MG III cabinets, the system supports easy DIY customization, stand-alone installation, and straightforward front-end maintenance.

03 [Application]

These systems are commonly deployed in high-visibility areas such as indoor auditoriums, TV studios, exhibition spaces, movie theaters, government facilities, conference rooms, entertainment venues, educational settings, healthcare centers, and performing arts venues, among other applications.

INDOOR FULL COLOR S SERIES



Items	S Series (Indoor)											
	S0.8	S1	S1.2	S1.3	S1.5	S1.6	S1.8	S2	S2.5	S3	S3.0	S4
Pixel Pitch (mm)	0.8	1	1.2	1.3	1.5	1.6	1.8	2	2.5	3	3.07	4
Scan	1/45	1/40	1/32	1/29	1/26	1/32	1/43	1/40	1/32	1/32	1/26	1/20
Module Size (mm)	320*160						192*192			320*160		
Module Resolution (Dots)	360*180	320*160	256*128	232*116	208*104	192*96	172*86	160*80	128*64	64*64	104*52	80*40
Pixel Density (Dots/m ²)	1265625	1000000	640000	525625	422500	360000	288906	250000	160000	111111	105625	62500
Energy Consumption Level	Grade 1											
Supply Voltage (v)	≥4.5											
Brightness (cd/m ²)	600-700											
Color Temperature (k)	Adjustable Range From 6500 to 18000											
Contrast	≥5000: 1											
Driving IC	PWM-SS Energy-Saving Driving IC											
Gray Scale (Bit)	≥14											
Refresh Rate (Hz)	≥4200											
Maximum Power Consumption (W/m ²)	≤703	≤791	≤580	≤580	≤580	≤580	≤439	≤439	≤457	≤525	≤413	≤465
Average Power Consumption (W/m ²)	≤235	≤264	≤194	≤194	≤194	≤194	≤147	≤147	≤153	≤175	≤138	≤155
Warranty	1 Year											

01 [Product Module]

S0.8, S1, S1.2, S1.3, S1.5, S1.6, S1.8, S2, S2.5, S3, S3.0, S4

02 [Product Advantages]

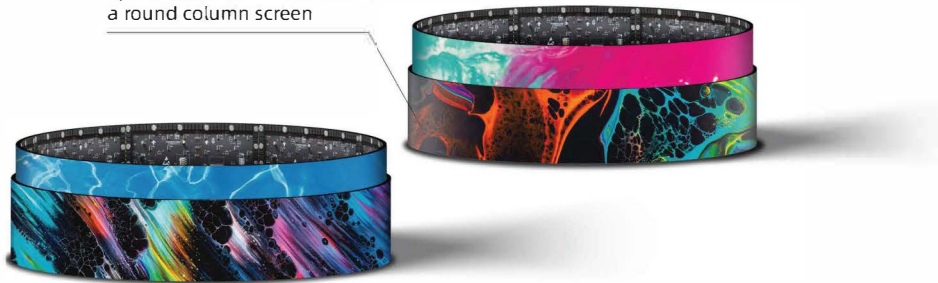
Featuring a gold wire lamp, the system is dependable, stable, and assures quality. It utilizes a PWM-SS dual energy-efficient driver IC with a 4K refresh rate, ensuring ripple-free photography. Additionally, the screen dynamically enters a low-power standby mode when operating at a low voltage of 4.5V, enhancing its energy efficiency. The IC transistors are designed with generous spacing and robust over-current capabilities, offering excellent voltage resistance and stability. The product lineup is comprehensive, including a standard universal size of 320x160mm. Compatible with MG III cabinets, the system facilitates easy DIY customization, independent installation, and convenient front-end maintenance. It also boasts a 140-degree viewing angle, offering an optimal viewing experience from various directions. This high-end system is versatile and suited for multiple applications.

03 [Application]

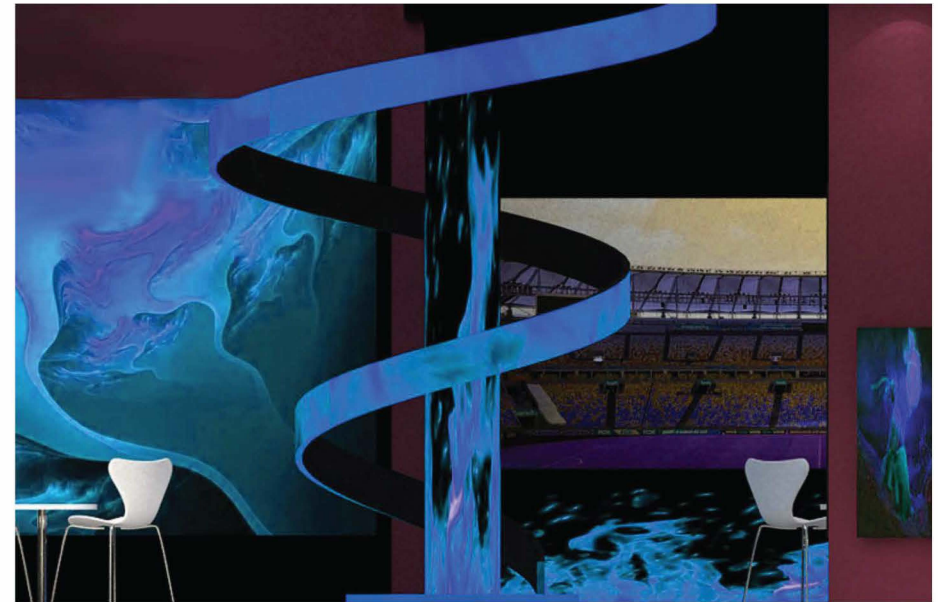
Commonly deployed in key areas within indoor auditoriums, TV studios, exhibition spaces, movie theaters, government offices, conference rooms, entertainment locations, educational institutions, healthcare facilities, and performing arts venues, among others.

INDOOR FLEXIBLE MODULE

4pcs flexible module to make a round column screen



Items	Flexible Module R-H (Indoor)				Flexible Module R-Pro (Indoor)			
	R1.5	R1.8	R2.0	R2.5	R1.5	R1.8	R2.0	R2.5
Pixel Pitch(mm)	1.5	1.8	2.0	2.5	1.5	1.8	2.0	2.5
Scan	1/52	1/43	1/40	1/32	1/52	1/43	1/40	1/32
Module Size(mm)	320*160							
Module Resolution(Dots)	208*104	172*86	160*80	128*64	208*104	172*86	160*80	128*64
Pixel Density(Dots/m ²)	422500	288906	250000	160000	422500	288906	250000	160000
Energy Consumption Level	Grade 1							
Supply Voltage(v)	≥4.5							
Brightness(cd/m ²)	450-500				500-600			
Color Temperature(k)	6500-18000 Adjustable							
Contrast	≥5000: 1							
Driving IC	PWM Energy-Saving Driving IC							
Gray Scale(Bit)	12~13 Adjustable				13~14 Adjustable			
Refresh Rate(Hz)	3000	3000	3000	3000	3840	3840	3840	3840
Maximum Power Consumption(W/m ²)	≤580	≤439	≤439	≤457	≤580	≤439	≤439	≤457
Average Power Consumption (W/m ²)	≤193	≤146	≤146	≤153	≤193	≤146	≤146	≤153
Warranty	1 Year							



01 [Product Model]

R-H:R1.5,R1.8,R2.0,R2.5 R-Pro:R1.5,R1.8,R2.0,R2.5

02 [Product Advantages]

With its flexible module design, the system elevates visual experiences beyond traditional flat displays. Four LED modules can be combined to create a cylindrical screen, offering a unique viewing experience. The screen's design is sleek and elegant, with a unit board thickness of just 7.5mm, conserving significant installation space. Its Deep V-shaped silicone bottom shell adds flexibility to the LED modules, allowing for large-angle displays. Equipped with powerful magnetic attachments, the modules are easy to affix and ensure reliable adhesion. Fine-tuning options are available to guarantee a balanced setup. High-quality 3M adhesive ensures secure bonding, eliminating risks of degumming or PCB warping for safer use. With the ability to easily construct cylindrical, streamer, and wave screens, this system offers unmatched creative flexibility and versatility.

03 [Application]

Commonly found in locations such as tourist attractions, shopping centers, planning exhibit halls, science and technology museums, art galleries, cultural museums, and creative hubs, among others.

SINGLE COLOR SERIES



Items	Single Color Series (Outdoor)	
	P10	
Pixel Pitch (mm)	10	
Scan	1/4	
Module Size (mm)	320*160	
Module Resolution (Dots)	32*16=512Dots	
Pixel Density (Dots/m ²)	10000	
Energy Consumption Level	Grade 1	
Supply Voltage (v)	4.5V	
Brightness (cd/m ²)	800	
Color Temperature (k)	6500-18000 Adjustable	
Contrast	≥5000: 1	
Driving IC	Current Driving IC	
Gray Scale (Bit)	8	
Refresh Rate (Hz)	960	
Maximum Power Consumption (W/m ²)	308	
Average Power Consumption (W/m ²)	≤103	
Warranty	1 Year	



01 [Product Module]

Outdoor P10 Single Color

02 [Product Advantages]

Featuring customized SMD2835H lamps with a thick base, the system delivers high brightness and a soft display effect. The LED lamps are fully potted in resin, offering waterproof and moisture-proof properties along with rapid heat dissipation. The PCB comes with a V0-grade flame retardant, ensuring enhanced safety and reliability. A specially tailored driver IC is implemented, designed with a simple layout for greater stability and ease of maintenance. With a low operating temperature and minimal luminous decay, the system ensures a safer usage experience and an extended lifespan.

03 [Application]

Commonly utilized in airports for flight notifications, train station ticket counters, banks, docks, buses, government offices, job centers, shopping complexes, educational institutions, auction and tender offices, movie theaters, and entertainment locations. The system is versatile, capable of displaying a range of information including company names, business updates, announcements, and directional guidance.

DM SERIES FOR RENTAL CABINET SOLUTION



Items	DM Series (Indoor)		DM Series (Outdoor)	
	DM2.6-Pro	DM3.9-Pro	DM3.9-Pro	DM4.8-Pro
Pixel Pitch (mm)	2.6	3.9	3.9	4.8
Scan	1/24	1/16	1/16	1/13
Cabinet Size (mm)	500*500		500*500	
Cabinet Resolution (Dots)	192*192	128*128	128*128	104*104
Pixel Density (Dots/m ²)	147456	65536	65536	43264
Energy Consumption Level	Grade 1		Grade 1	
Supply Voltage (v)	≥4.5		≥4.5	
Brightness (cd/m ²)	600-700		3500-4000	4000-5000
Color Temperature (k)	6500-18000 Adjustable		6500-18000 Adjustable	
Contrast	≥5000: 1		≥5000: 1	
Driving IC	Energy-Saving High Refresh Rate PWM-SS		Energy-Saving High Refresh Rate PWM-SS	
Gray Level (Bit)	≥13 Adjustable		≥13 Adjustable	
Refresh Rate (Hz)	≥3840		≥3840	
Maximum Power Consumption (W/m ²)	≤675	≤675	≤720	≤720
Average Power Consumption (W/m ²)	≤225	≤225	≤240	≤240
Warranty	1 Year			

01 [Product Module]

Indoor: DM2.6-Pro, DM3.9-Pro Outdoor: DM3.9-Pro, DM4.8-Pro

02 [Product Advantages]

Offering high versatility, the system supports multiple assembly techniques and can be adapted to various cabinet configurations. It features universal signal and power interfaces for added convenience.

The Pro series is equipped with a PWM-SS dual energy-saving driver IC, boasting a 4K refresh rate and eliminating moiré effects during photography.

Operating at a locked state with a 4.5V low voltage power supply, the system is even more energy-efficient.

To meet basic operational needs, the Pro series also employs a PWM-SS chip.

03 [Application]

Commonly deployed in settings like information hubs, presentation facilities, command centers, indoor auditoriums, TV production studios, exhibition spaces, movie theaters, governmental offices, conference areas, entertainment venues, educational institutions, healthcare centers, and performing arts venues, among others.

DM SERIES FOR RENTAL MODULE SOLUTION



Items	DM Series (Indoor)		DM Series (Outdoor)	
	DM2.6-Pro	DM3.9-Pro	DM3.9-Pro	DM4.8-Pro
Pixel Pitch (mm)	2.6	3.9	3.9	4.8
Scan	1/24	1/16	1/16	1/13
Module Size (mm)	250*250		250*250	
Module Resolution (Dots)	96*96	64*64	64*64	52*52
Pixel Density(Dots/m ²)	147456	65536	65536	43264
Energy Consumption Level	Grade 1		Grade 1	
Supply Voltage (v)	≥4.5		≥4.5	
Brightness (cd/m ²)	600-700		3500-4000	4000-5000
Color Temperature (k)	6500-18000 Adjustable		6500-18000 Adjustable	
Contrast	≥5000: 1		≥5000: 1	
Driving IC	Energy-Saving High Refresh Rate PWM-SS		Energy-Saving High Refresh Rate PWM-SS	
Gray Level (Bit)	≥13 Adjustable		≥13 Adjustable	
Refresh Rate (Hz)	≥3840		≥3840	
Maximum Power Consumption (W/m ²)	≤675	≤675	≤720	≤720
Average Power Consumption (W/m ²)	≤225	≤225	≤240	≤240
Warranty	1 Year			

01 [Product Module]

Indoor: DM2.6-Pro, DM3.9-Pro Outdoor: DM3.9-Pro, DM4.8-Pro

02 [Product Advantages]

Featuring high adaptability, the system accommodates multiple assembly options and is compatible with various cabinet structures. It also comes equipped with universal interfaces for both signals and power.

The Pro series incorporates a PWM-SS dual energy-saving driver IC, delivering a 4K refresh rate and eliminating moiré artifacts in photographs

It operates in a locked state with a 4.5V low voltage power supply, further enhancing its energy efficiency.

To satisfy fundamental operational needs, the Pro series also employs a PWM-SS chip.

03 [Application]

Typically found in venues such as information hubs, presentation spaces, command facilities, indoor auditoriums, television studios, exhibit areas, movie theaters, government offices, meeting rooms, entertainment locations, educational institutions, healthcare facilities, and performing arts centers, among others.

INDOOR FIXED INSTALLATION MG SERIES



Items	QM-Pro-09	QM-Pro-0	QM-Pro-1	QM-Pro-2	QM-E
Match Pixel Pitch Module Size (mm)	0.9	1	1.2 1.3 1.5 1.6	1.5 1.8 2 2.5 3.0 4	1.5 1.6 1.8 2 2.5 3.0 4
Scan	1/45	1/40	1/32 1/29 1/26 1/32	1/52 1/43 1/40 1/32 1/26 1/20	1/52 1/32 1/43 1/40 1/32 1/26 1/20
Module (W*H)	2*3				
Cabinet Size (mm)	640*480				
Cabinet Frame Material	Aluminium Alloy				
Cabinet Weight (kg)	5	5	5	5	3.2(Frame Only)
Cabinet Flatness (mm/m ²)	< 0.15				
Adapter Board Configuration	Hub320 Interface / Green Adapter Board	Hub320 Interface / Green Adapter Board	Hub320 Interface / Green Adapter Board	Hub75 Interface / Blue Adapter Board	/
Using Environment	Indoor				



01 [Product Module]

QM-Pro-08, QM-Pro-0, QM-Pro-1, QM-Pro-2, QM-E

02 [Product Advantages]

Front-facing serviceability eliminates the need for additional repair space, saving up to 70% in installation area.

The system supports custom control cards and backup power solutions.

Modules and cabinets are designed to be assembled independently, allowing for flexible configurations.

The result is a seamless display with a mirror-like flatness.

Upgrades are simplified; the existing cabinet and structure remain intact while only the module needs to be replaced, making the upgrade process straightforward and efficient.

03 [Application]

Commonly utilized in settings like indoor auditoriums, conference centers, educational institutions, airports, exhibition spaces, TV studios, monitoring hubs, and command facilities, among others.

INDOOR FIXED INSTALLATION DA-I CABINET



Items	DA-I (Indoor)							
	Q/S1.2	Q/S1.5	Q/S1.6	Q/S1.8	Q/S2	Q/S2.5	Q/S3.0	Q/S4
Scan	1/32	1/26	1/32	1/43	1/40	1/32	1/26	1/20
Module (W*H)	2*3							
Module Size (mm)	320*160							
Supply Voltage (v)	4.5V							
Cabinet Area (sqm)	0.3072m²							
Cabinet Weight	3.70Kg (Cabinet Frame Only), 7.8Kg (Complete Set Cabinet)							
Control Way	Computer Control , Video Synchronization, Real-Time Display							
Flatness	< 0.15mm							
Cabinet Power Configuration	4.5V/50A/40A							
Operating Environments	Indoor							
Cabinet Structure	Aluminium Alloy							
Cabinet Size (W*H*D)	640mm*480mm*45mm							
Protecting Performance	Over-Temperature/Overload/Power-Down/Image Compensation/Various Correction Techniques/Over-Current/Over-Voltage/Lightning Protection(Optional)							
Working Temperature	-20 ~ 40°C							
Working Humidity	10% - 65%RH							



01 [Product Module]

Indoor(DA-I)Q / S1.2, Q/S1.5, Q/S1.6, Q/S1.8, Q/S2, Q/S2.5, Q/S3.0, Q/S4

02 [Product Advantages]

Compatible with all 320*160mm outdoor modules, the system is easy to install and replace. Its streamlined cabinet structure allows for quick locking and assembly.

The system accommodates custom control cards and offers flexible power supply options. Made from ultra-lightweight materials, it's well-suited for a variety of outdoor environments.

03 [Application]

Common uses are outdoor promotional platforms, governmental and corporate initiatives, cultural tourism sites, sports arenas, commercial properties, and entryway signage..

OUTDOOR FIXED INSTALLATION MG-O CABINET



Items	MG-O (Outdoor)							
	Q/S2	Q/S2.5	Q/S3.0	Q/S4	Q/S5	Q/S6.66	Q/S8	Q/S10
Scan	1/20	1/16	1/13	1/10	1/8	1/6	1/5	1/2
Module (W*H)	3*6							
Module Size (mm)	320*160							
Supply Voltage (v)	4.5V							
Cabinet Area (sqm)	0.9216m²							
Cabinet Weight	12.9kg (Cabinet Frame Only)/29.7kg (Complete Set Cabinet)							
Control Way	Computer Control , Video Synchronization, Real-Time Display							
Flatness	< 0.6mm							
Cabinet Power Configuration	4.5V/80A							
Operating Environments	Outdoor							
Cabinet Structure	Magnesium Alloy							
Cabinet Size (W*H*D)	960mm*960mm*104.5mm (Thickness Includes Module 9And Cabinet) / 60mm*960mm*169.5mm (Thickness Includes Module, Cabinet And Connecting Piece)							
Protecting Performance	Overheat/Overload/Electricity Leakage/Image Compensation/Image Correction/Over-Current/Over-Voltage/Thunder-Proof(Selective)							
Working Temperature	-20~40°C							
Working Humidity	10%-90%RH							

01 [Product Module]

Outdoor (MG-O): Q/S2, Q/S2.5, Q/S3.0, Q/S4, Q/S5, Q/S6.66, Q/S8, Q/S10

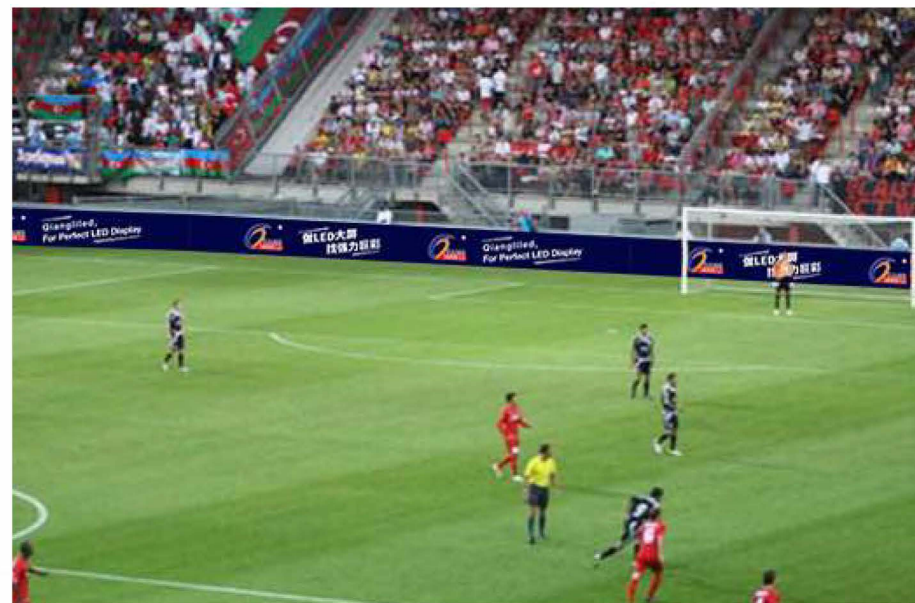
02 [Product Advantages]

Designed to be compatible with all outdoor 320*160mm modules, the system is simple to install and swap out. Featuring a sleek and complete cabinet design, it allows for quick locking and assembly. The system is customizable, supporting tailored control cards and offering a range of power supply choices. Constructed from ultra-light materials, it's ideal for a wide variety of outdoor settings.

03 [Application]

Common uses are outdoor promotional platforms, governmental and corporate initiatives, cultural tourism sites, sports arenas, commercial properties, and entryway signage..

PERIMETER LED SCREEN SERIES



Items	Q-Pro Series (Outdoor)			S Series (Outdoor)		
	Q5	Q6.6	Q8	S5	S6.6	S8
Pixel Pitch (mm)	5	6.6	8	5	6.6	8
Scan	1/8	1/6	1/5	1/8	1/6	1/5
Module Size (mm)	320*160			320*160		
Module Resolution (Dots)	64*32	48*24	40*20	64*32	48*24	40*20
Pixel Density (Dots/m ²)	40000	22500	15625	40000	22500	15625
Energy Consumption Level	Grade 1			Grade 1		
Supply Voltage (v)	≥4.5			≥4.5		
Brightness (cd/m ²)	4500-5000			6000-7000		
Color Temperature (k)	6500-18000 Adjustable			6500-18000 Adjustable		
Contrast	≥5000: 1			≥5000: 1		
Driving IC	Energy-Saving Driving IC			Energy-Saving High Refresh Rate PWM-SS		
Gray Scale (Bit)	12-13 Adjustable			≥14 Adjustable		
Refresh Rate (Hz)	≥3840			≥3840		
Maximum Power Consumption (W/m ²)	≤836	≤892	≤866	≤836	≤946	≤866
Average Power Consumption (W/m ²)	≤279	≤297	≤289	≤279	≤316	≤289
Warranty	1 Year					

01 [Product Module]

Q5, Q6.6, Q8/S5, S6.6, S8

02 [Product Advantages]

Incorporating a PWM-SS dual energy-saving driver IC, the system offers a 4K refresh rate and ripple-free photography. It also supports a low starting voltage of 4.2V for enhanced energy efficiency.

Operational at a 4.5V low voltage, the system is designed for energy conservation.

The IC transistors feature ample spacing, high over-current capacity, excellent voltage resistance, and are built through a mature manufacturing process for enhanced stability and performance.

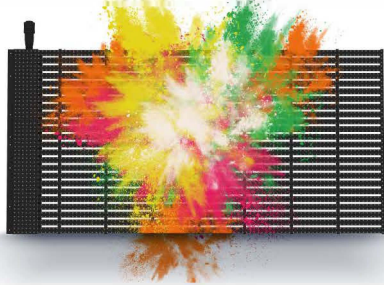
Designed to complement MG cabinets, the system supports DIY customization, standalone installations, and comprehensive front-end maintenance.

03 [Application]

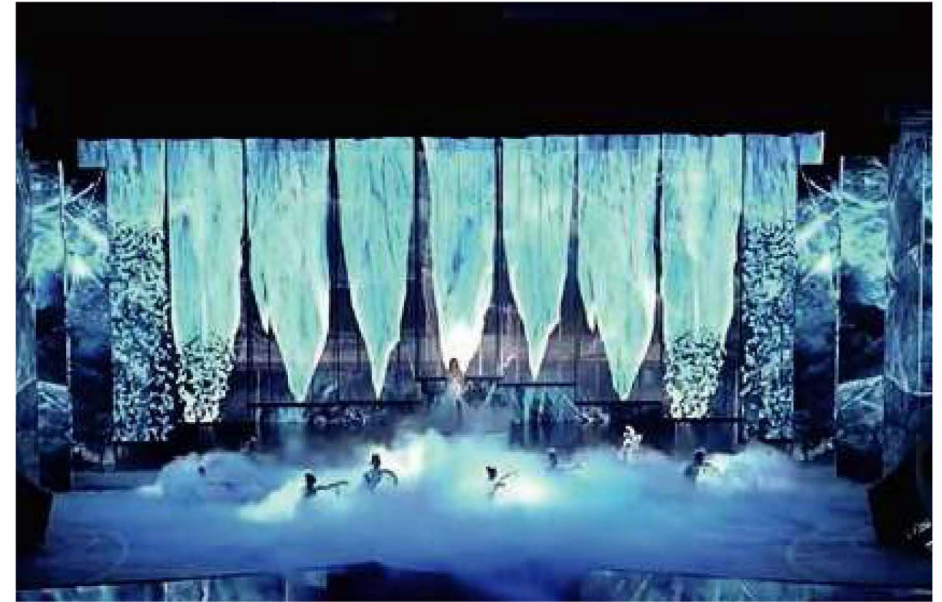
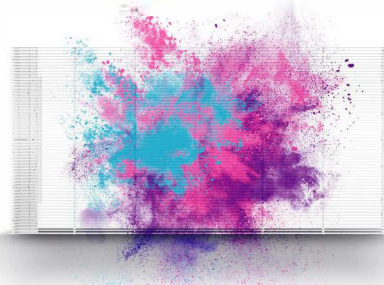
Commonly employed in outdoor recreational areas.

TRANSPARENT SCREEN SERIES

Grille Screen



Transparent Screen



Items	Transparent Screen Series (Indoor)			Transparent Screen Series (Outdoor)
	JS3.9	JS7.8	JS10.4	CT10.4
Pixel Pitch (mm)	3.9*7.8	7.8*7.8	10.4*10.4	10.4
Scan	1/4	1/4	1/2	1/2
Pixel Density (s/m ²)	32768	16384	9216	9216
Module Resolution (Dot)	16384	8192	4608	1152
Brightness (cd/m ²)	5500	6500		4500
Transparency	>70%		>80%	>60%
Angle Of View	160°			140
Gray Scale (Bit)	16			14
Scanning Method	4		2	3
Refresh Rate (hz)	3840			3840
Change Frame Frequency (Hz)	60			60
Maintenance Method	Back Maintenance			Front And Back Maintenance
Heat (w)	70	65		80
Maximum Power Consumption (W/m ²)	720			800
Degree Of Protection	IP4X			IP65
Working Environment	-20°~45°			-30°~50°
Weight (kg/m ²)	14		13.5	15

01 [Product Module]

Indoor: JS3.9, JS7.8, JS10.4

Outdoor: CT10.4

02 [Product Advantages]

Utilizing a PWM-SS dual energy-saving driver IC, the system delivers a 4K refresh rate and eliminates water ripples in photographs.

It also supports a low 4.5V voltage for dynamic screen standby, further enhancing energy efficiency.

The integrated circuit transistors are designed with ample spacing, high over-current capacity, excellent voltage resistance, and are manufactured through a mature process, contributing to overall stable performance.

A 140° viewing angle ensures an optimal visual experience from various perspectives.

These are high-end products suited for a range of applications.

03 [Application]

Commonly found in settings like indoor auditoriums, television studios, expo centers, movie theaters, governmental offices, conference facilities, entertainment spots, educational institutions, healthcare centers, and performing arts venues, these products hold a prominent role in these sectors.

APT LED Solutions, LLC

33920 US Highway 19 N, Ste 250, Palm Harbor, Florida, USA, 34684

+1 727 385 0390

pstals@aptledsolutions.com