

Abgen

Trusted LED Supplier



AW SERIES

Outdoor Fine Pixel Pitch LED Display

Outdoor Fine Pixel Pitch LED Display



500x750mm



500x500mm

AW2.8 / AW3.9



Brightness
5000nit



Pixel Pitch
2.84mm / 3.9mm



Panel Material
Die-casting aluminum

Multi-Purpose Panel for More Application Scenarios



Fixed Installation



Panel+ light box frame



Panel+ light pole frame

* The standard AW series Panel can be used in different scenes by using different combinations of outer frames (light poleframe, light box frame)

Best-in-Class Image Performance in Outdoor



- Versatile fine pitch available in 2.8, 3.9 millimeter pixel pitches. The pixel density up to 123904 LED's/m² with outstanding image quality.
- True to content effects are created with 3840Hz high refresh rate, outstanding color processing and great contrast ratios.





Seamless Design for Full Waterproof

- Ingress protection up to IP65/IP54, exceptional waterproof level, and all weather resistance.
- Support outdoor frameless installation, save the cost of binding materials.



Efficient Heat Dissipation by Fin Structure Design

- Aluminum panel, fast heat conduction.
- Fin structure heat dissipation design, increasing heat dissipation area for faster cooling.

High Refresh Rate, Better Visual Performance

PWM IC, 3840Hz refresh rate, excellent visual effect.



High refresh rate, Clear picture

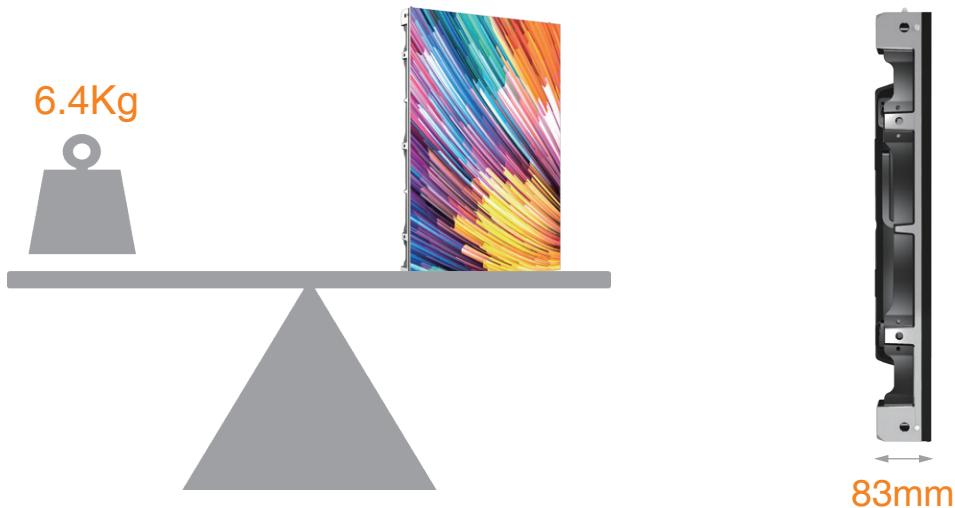


Low refresh rate, scanning line in the picture

Lighter and Thinner, Reduce the Operation Cost

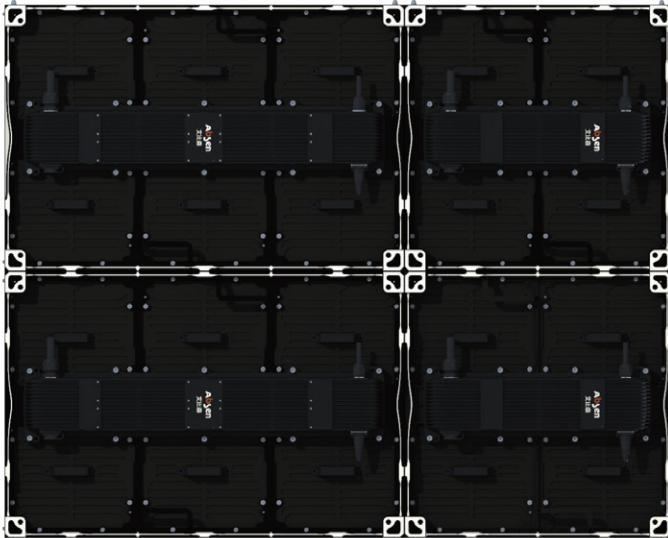
Ultra light design, single panel weighs only 6.4kg. Easy to handle, saving the cost of transportation and steel structure.

Ultra thin box, and the thickness of the highest position is only 83mm. Saving space for wall mounted installation.



Convenient and Flexible Assembly

The panel can be rotated and installed (90° left in front view) to meet the requirements of various splicing dimensions; it can also be installed in front and rear, ground stack, and hoisted (adding lifting beam and connecting lock).



Assembly diagram of panel after rotation

*The size of odd module with both width and height is not supported temporarily

*The rotating box and the standard panel are only different in modules, which are distinguished by different finished material numbers

Convenient Maintenance

- AW2.8 adopts rear maintenance
- AW3.9 adopts front & rear maintenance
- Power box adopts module maintenance, convenient and fast



AW Series Technical Parameters

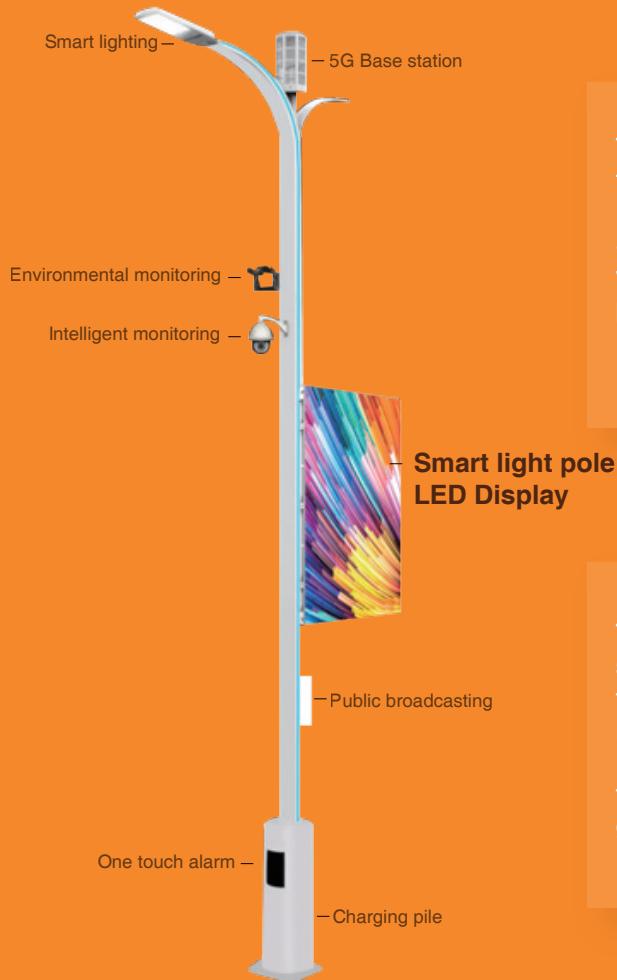
Item	AW2.8	AW3.9	Unit
Pixel Pitch	2.84	3.9	mm
Brightness	5000	5000	nits
Refresh Rate	3840		Hz
Gray Scale	14	16	bit
Avg. Power Consumption	243	210	W/m ²
Max. Power Consumption	730	630	W/m ²
Viewing Angle (H/V)	160/125	160/130	deg
Panel Dimension (W×H×D)	500x500x83/500x750x83		mm
Module Dimension (WxH)	250x250		mm
Panel Weight	6.4(500x500mm) 9.6(500x750)		kg
Panel Material	Aluminum		—
Operating Temperature	-20°C~50°C		°C
Protection	IP65/IP54		—

Smart Light Pole LED Display (AW Series)

The 5G era is coming, there will be a huge emerging market led by smart light pole LED display – the application and operation management of urban new smart street furniture of light pole with LED display, which is an important carrier for building a comprehensive perception network of smart city in the future



Smart Light Pole LED Display



01

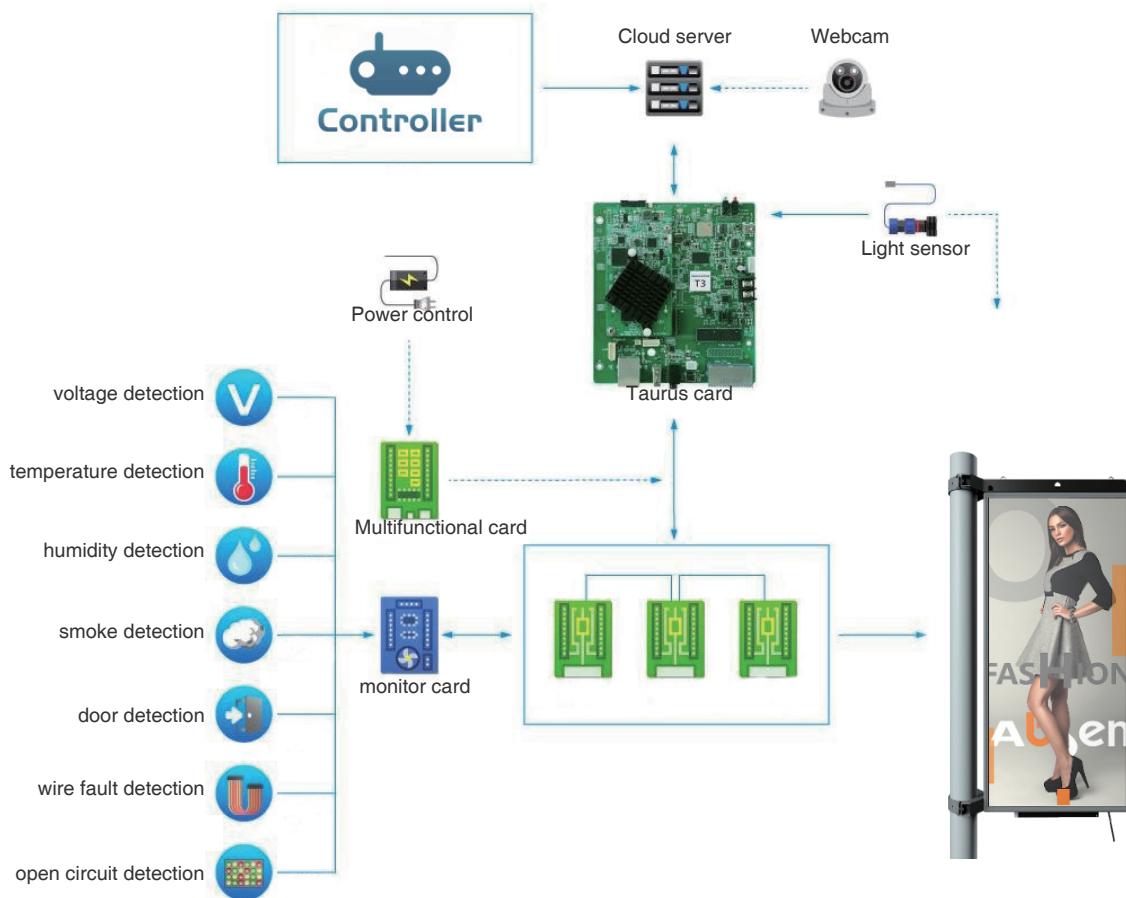
The smart light pole LED display has many innovative functions, such as Energy-efficient, Lighter and thinner, High weatherability, Automatic brightness adjustment, Simultaneous display, Remote publishing of advertising video and picture information, Cluster control, Safety protection.

02

The smart light pole integrates LED display, 5G base station, WiFi coverage, intelligent lighting, video monitoring, charging post, information interaction, environmental monitoring and other functional modules, and realizes the multi-functional composite public infrastructure for unified management of intelligent lighting, Intelligent sensing, and intelligent transportation.

Scheme Topology

Acts as a smart eye for the associated authority. Smart cameras are used to detect gatherings, accidents, un-authorized parking etc.



Superb Visuals

- Versatile fine pitch available in 2.8, 3.9 millimeter pixel pitches.
- The pixel density up to 123904 LED's/m², outstanding image quality.
- True to content effects are created with 3840Hz high refresh rate, outstanding color processing and great contrast ratios.



Solid Reliability

- IP65 protection, front & rear waterproof.
- Withstand adverse weather, with optimize performance working in $-20^{\circ}\text{C}\sim 50^{\circ}\text{C}$ environment.
- Low power consumption and redundant power to guarantee the reliability.
- Die-cast aluminum cabinet, anti-corrosion and good heat dissipation effect.



Automatic Brightness Control



Utilizing an intelligent auto light sensor control system detects the environment brightness in real time and automatically adjusts the display brightness, ensure proper brightness of your display 24/7.

Simultaneous Playback

Simultaneous display of advertising video and picture information on multiple smart light pole LED Display.



Multiple Security Measures, Stable and Reliable

Permission authentication, Channel encryption, Terminal locking.



Selection Standard of Smart Light Pole & LED Display

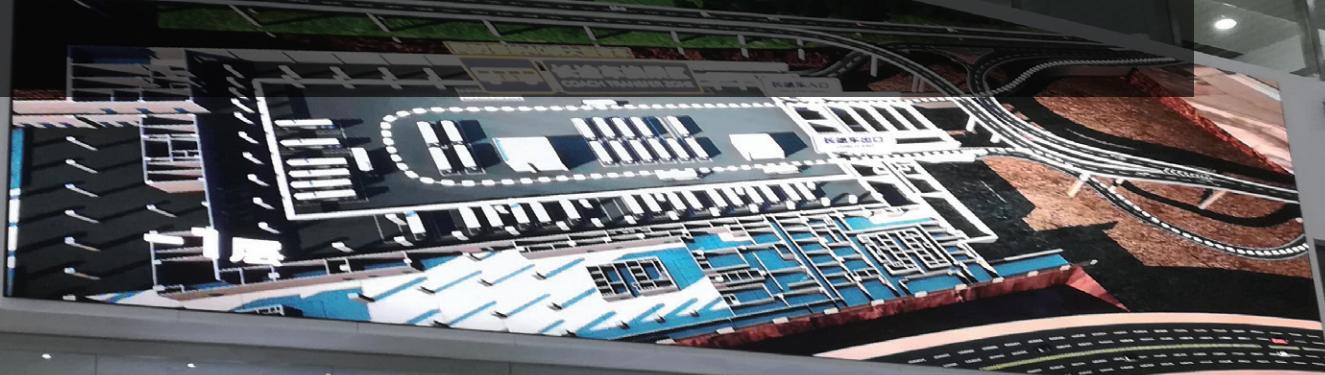
Application Scenarios		Height of Pole	Installation Height of LED Display	Recommended Display Size
Commercial pedestrian street, park, community, sidewalk, car road		3.5-6m	1.5-2m	500x1000mm
Streets	Branch Road, 4 lanes	6-8m	2-2.7m	750x1000mm
	Secondary trunk road	8-12m	2.7-4m	750x1500mm
	Main road, 6 lanes			
Viaduct, Bridge, Overpass		8-12m	2.7-4m	750x1500mm

Smart Light Pole LED Display Technical Parameters

Item	AW2.8	AW3.9	Unit
Pixel Pitch	2.84	3.9	mm
Brightness	5000	5000	nits
Refresh Rate	3840		Hz
Gray Scale	14	16	bit
Avg. Power Consumption	243	210	W/m ²
Max. Power Consumption	730	630	W/m ²
Viewing Angle (H/V)	160/125	160/130	deg
Panel Dimension (W×H×D)	500x1000x95/750x1500x95		mm
Module Dimension (W×H)	250x250		mm
Panel Weight	26(500x1000mm) 60(750x1500)		kg
Panel Material	Aluminum		—
Operating Temperature	-20°C~50°C		°C
Protection	IP65/IP54		—

Light Box Display (AW Series)

As an important media platform for digital communication in public spaces, LED light box display has been widely used in diverse application scenarios. The latest generation of LED light box display of absen integrated core functions of Extreme HD display in outdoor, Integrated design, Online management, Remote management, Safety protection. They can be use to deliver one-stop solution with full confidence in the visual performance, reliability, and longevity of their solution.



↑ B1



公共汽车到达
Bus Arrivals



地面广场
Ground Square



铁路进站口
Railway Entrance

Multiple Installation Solution



Integrated Solution



Customized Solution

Floor & Mobile Light Box Display



Front & rear waterproof



Fan-less and noiseless

Pixel Pitch	Light box Dimensions	Panel Dimensions	Weight
2.84/3.9mm	1100x600x2215mm	1000x1750mm	185Kg

Key Features of Light Box Display



Integrated Design

Full set configuration, plug and play;
Easy to install, transport and maintain;
Integrated design of LED display,
frame and controller



Online Management

Remote publishing of advertising
video and picture information;
Easy management and improve
work efficiency



Remote management

Remote management & automatic
monitoring; Alarm notification &
automatic feedback



Safety Protection

Permission authentication;
Channel encryption; Terminal locking

Light Box Display Technical Parameters

Item	AW2.8	AW3.9	Unit
Pixel Pitch	2.84	3.9	mm
Brightness	5000	5000	nits
Refresh Rate	3840		Hz
Gray Scale	14	16	bit
Avg. Power Consumption	243	210	W/m ²
Max. Power Consumption	730	630	W/m ²
Viewing Angle (H/V)	160/125	160/130	deg
Panel Dimension (W×H×D)	1000x1750x135		mm
Module Dimension (WxH)	250x250		mm
Panel Weight	185		kg
Panel Material	Aluminum		—
Operating Temperature	-20°C~50°C		°C
Protection	IP65/IP54		—

Key Applications of AW Series



Street Furniture



Light Box Display



Smart Light Pole LED Display



Bus Shelter

Absen Optoelectronic Co.,Ltd

18-20F Building 3A, Cloud Park, Bantian Huawei Base,
Longgang District Shenzhen, 518129, P.R.China
T: +86-755-89747399 E: absen@absen.com
F: +86-755-89747599 W: www.absen.com

Absen Inc.

7120 Lake Ellenor Drive Orlando,
Florida 32809, USA
T: +1-407-203-8870 E: info@usabsen.com
F: +1-407-203-8873 W: www.usabsen.com

Absen GmbH

Eisenstraße 5, 65428 Rüsselsheim a.M.,
Germany
T: +49 (0) 6142 78935-0 E: europe@absen.com
F: +49 (0) 6142 78935-29 W: www.absen-europe.com