

ELEMENT 500 SERIES

Cool under pressure. Clear always.

Built for the Elements.
Made for Impact.



ALL-WEATHER
DURABILITY



EASY
MAINTENANCE



FRONT & REAR
SERVICEABILITY



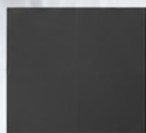
RELIABLE
PERFORMANCE

ELEMENT 500 SERIES 2.9mm, 3.9mm, 4.8mm, 6.2mm, 8.3mm, 10.4mm

ATS | PRO

Flexible Sizes

The LED panel offers flexible sizing options, including 1000×1000mm, 1000×750mm, 1000×500mm, and 500×750mm, allowing for versatile configurations to suit various installation needs. This adaptability ensures seamless integration into different display environments.



1000 × 1000 mm
(39.4" × 39.4")



1000 × 750 mm
(39.4" × 29.5")



1000 × 500 mm
(39.4" × 19.7")



500 × 750 mm
(19.7" × 29.5")



VERSATILE CONFIGURATIONS

Adapt to a wide range of installation needs.



SEAMLESS INTEGRATION

Flexible sizes for different display environments.



SCALABLE SOLUTIONS

Build the right display for your space.

Energy Efficiency

Lower carbon emissions for a greener, more sustainable solution. The panel operates with stability and reliability, featuring a self-contained heat dissipation system that eliminates the need for additional cooling equipment—promoting energy efficiency and environmental responsibility.



**High
Energy
Saving**



**Lower
Carbon**



LOWER CARBON EMISSIONS

A greener, more sustainable solution.



SELF-CONTAINED HEAT DISSIPATION

Eliminates the need for additional cooling equipment.



STABLE & RELIABLE OPERATION

Promotes energy efficiency and environmental responsibility.

Exceptional Engineering: Heat Dissipation

Aluminum module chassis and panel frame accelerates heat dissipation. Air convection design helps air circulation inside the panel and keeps the balance of the air pressure inside the PSU. Heat sink design for module chassis and power supply unit improves heat dissipation considerably. White color frame can reflect the sunlight to reduce the heat generated in the panel.



ENHANCED HEAT DISSIPATION

Aluminum chassis accelerates heat transfer.



AIR CONVECTION DESIGN

Improves airflow and balances internal pressure.



REFLECTIVE WHITE FRAME

Helps reduce heat absorption from sunlight.



Protection grade **IP66**

Built for reliable waterproof performance, our panel features sealed connectors between modules and frame to prevent water ingress. Outdoor-rated power and data cables are routed through the bottom for stable, secure transmission, while a built-in drainage hole prevents water accumulation, enhancing durability in all weather conditions. With self-contained heat dissipation requiring no additional equipment, and energy-saving technology that supports lower carbon emissions, this series ensures stable, eco-friendly operation built to last.



IP66 PROTECTION

Reliable waterproof performance for outdoor environments.



SEALED CONNECTORS

Prevents water ingress between modules and frame.



BUILT-IN DRAINAGE

Prevents water accumulation for enhanced durability.



SELF-CONTAINED HEAT DISSIPATION

No additional cooling equipment required.

Air Convection Design for PSU

The panel features an advanced air dissipation system designed to regulate internal temperature and prevent moisture buildup. Its air convection design promotes steady airflow, ensuring balanced air pressure inside the power supply unit (PSU).



OPTIMIZED AIRFLOW

Maintains balanced air pressure inside the PSU for stable operation.



ENHANCED HEAT DISSIPATION

Heat sink elements integrated into the module chassis and PSU improve thermal efficiency.



MOISTURE CONTROL

Dual ventilation holes help prevent condensation and moisture buildup.



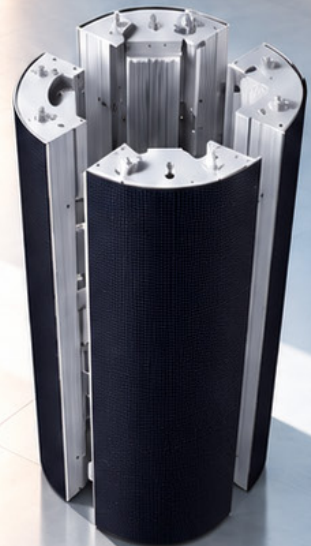
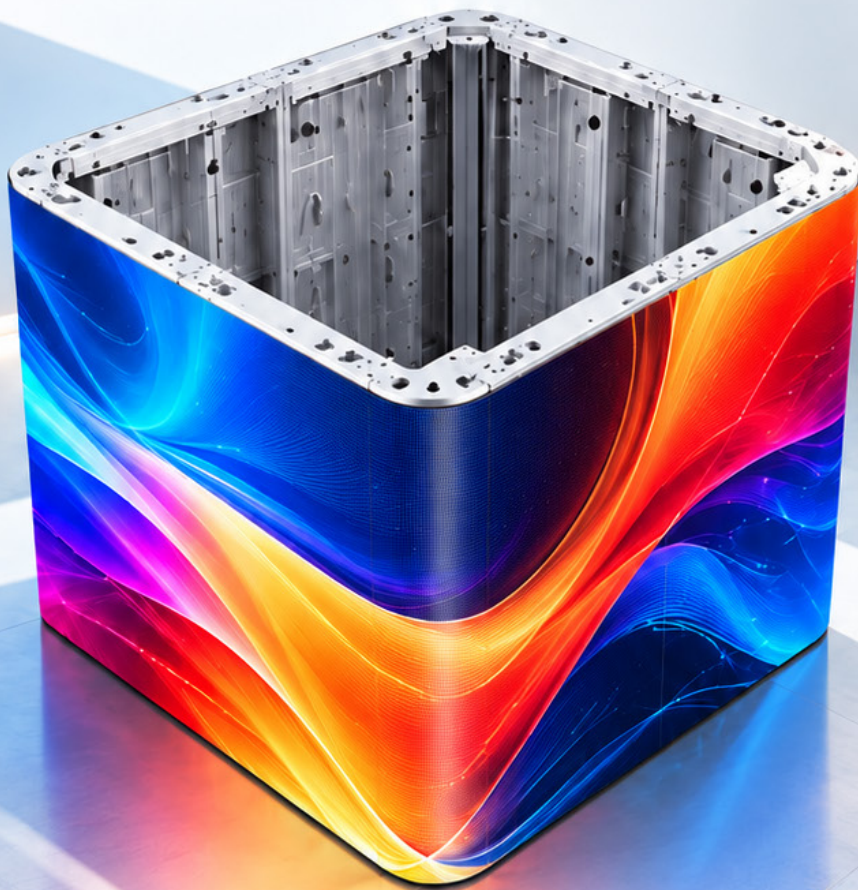
Perfect Corners

Create seamless corner and cube-shaped LED displays with precision-engineered cabinets, delivering smooth, continuous visuals for a polished, professional finish.



Rounded Corners

Engineered for impact, our panels feature precision-rounded corners. The flawless corner design ensures smooth transitions and uninterrupted visual effects, making it perfect for bold, dynamic corner or wraparound installations. Whether viewed up close or from a distance, every angle delivers a seamless, professional finish that sets your display apart.



SEAMLESS WRAPAROUND

Create smooth, continuous visuals for corner and cube-shaped displays.



PRECISION ENGINEERING

Flawless corner design delivers a polished, professional finish.



VERSATILE INSTALLATIONS

Ideal for bold, dynamic corner or wraparound applications.

CCES

Technology Option

CCES is an abbreviation for Common Cathode Energy Saving technology.



ENERGY SAVING

Save energy and lower power consumption by more than 30%.



LOWER HEAT

Less heat generated from electrical components, extending the lifespan of the panel.



BETTER STABILITY

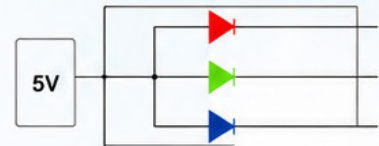
Lower internal temperature allows components to work more stably for better video quality.

Common Cathode Aluminum LED Display (CCES)



Common Cathode Aluminum LED Display

Conventional LED Display



Conventional LED Display



Built for Safety. Ready for the Outdoors.

Engineered with materials compliant to UL 94 5VB fire-resistance standards, our LED panels deliver peace of mind alongside stunning visuals. Whether installed in stadiums, transit hubs, or high-traffic outdoor environments, you can trust our technology to perform safely—even under demanding conditions.



UL 94 5VB FIRE RESISTANCE

Compliant materials for enhanced safety and reliability.



DURABLE OUTDOOR PERFORMANCE

Built to withstand harsh environments.



STABLE & RELIABLE OPERATION

Performs safely even under demanding conditions.



STADIUMS



TRANSIT HUBS



HIGH-TRAFFIC
OUTDOOR ENVIRONMENTS



ALL-WEATHER
CONFIDENCE

Specifications

ATS-PRO 500 Series LED panel shown.

Specifications	EL500P2*	EL500P3*	EL500P4	EL500P6	EL500P8	EL500P10
LED Type	SMD1921	SMD1921	SMD1921	SMD2727	SMD2727	SMD2727
Pixel Pitch (mm)	2.9	3.9	4.8	6.2	8.3	10.4
Panel Dimensions (W*H)/(mm)	500x1000x81.5	500x1000x81.5	500x1000x81.5	1000x1000x81.5	1000x1000x81.5	1000x1000x81.5
	500x750x81.5	500x750x81.5	500x750x81.5	1000x750x81.5	1000x750x81.5	1000x750x81.5
	500x500x81.5	500x500x81.5	500x500x81.5	1000x500x81.5	1000x500x81.5	1000x500x81.5
Pixel Per Panel	168x336	128x256	128x256	160x160	120x120	96x96
	168x252	128x192	128x192	160x120	120x90	96x72
	168x168	128x128	128x128	160x80	120x60	96x48
Panel Weight (kg/m ²)	27	27	27	27	27	27
Panel Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Module Dimensions (W*H)/(mm)	250mm x 250mm	500mm x 250mm	500mm x 250mm	500mm x 250mm	500mm x 250mm	500mm x 250mm
Brightness (nit)	4,000-4,500	5,500-7,000	5,500-7,000	5,500-7,000	6,000-7,500	6,000-7,000
Refresh Rate (Hz)	3,840Hz	7,680Hz	7,680Hz	7,680Hz	7,680Hz	7,680Hz
Grayscale (bit)	14-16 bit	14-16 bit	14-16 bit	14-16 bit	14-16 bit	14-16 bit
Contrast Ratio	10,000:1	10,000:1	10,000:1	10,000:1	10,000:1	10,000:1
Color Temperature (K)	8,000	8,000	8,000	8,000	8,000	8,000
Viewing Angle (H/V) (°)	H-160°, V/Up-30°, V/Down-60°	H-160°, V/Up-30°, V/Down-60°	H-160°, V/Up-30°, V/Down-60°	H-160°, V/Up-30°, V/Down-60°	H-160°, V/Up-30°, V/Down-60°	H-160°, V/Up-30°, V/Down-60°
Driving Type	21 scan	16 scan	5 scan	5 scan	3 scan	2 scan
AC Operating Voltage (V)	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V
Power Consumption (Max./Avg.) (W/m ²)	670/201	570/171	570/171	570/171	540/162	555/165
Storage Temperature (°C)	-40~+60°C	-40~+60°C	-40~+60°C	-40~+60°C	-40~+60°C	-40~+60°C
Operating Temperature (°C)	-40~+55°C	-40~+55°C	-40~+55°C	-40~+55°C	-40~+55°C	-40~+55°C
Storage Humidity (RH)	10%~60%RH	10%~60%RH	10%~60%RH	10%~60%RH	10%~60%RH	10%~60%RH
Operating Humidity (RH)	10%~95%RH	10%~95%RH	10%~95%RH	10%~95%RH	10%~95%RH	10%~95%RH
IP Rating (Front/Rear)	IP66	IP66	IP66	IP66	IP66	IP66
LED Lifetime (H)	100,000	100,000	100,000	100,000	100,000	100,000
Maintenance	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear
Panel Installation Type	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Certification	ETL/FCC	ETL/FCC	ETL/FCC	ETL/FCC	ETL/FCC	ETL/FCC

*Common cathode option. Common cathode and perfect rounded corner options available on select models. Must be confirmed at the time of order. Specifications subject to change. Please contact ATS-Pro for updated specifications.



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