



# ELEMENT 480

COOL UNDER PRESSURE. CLEAR IN ANY WEATHER.

Built for the Elements. Made for Impact.

2025 ELEMENT 480 SERIES: FIXED OUTDOOR LED BY ATS-PRO



# 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.





## Protection grade IP66

Built for reliable waterproof performance, the panel features sealed connectors between the modules and frame to prevent water ingress. Outdoor-rated power and data cables are routed through the bottom of the panel, ensuring stable and secure transmission. A drainage hole at the base prevents water accumulation, enhancing durability in all weather conditions.



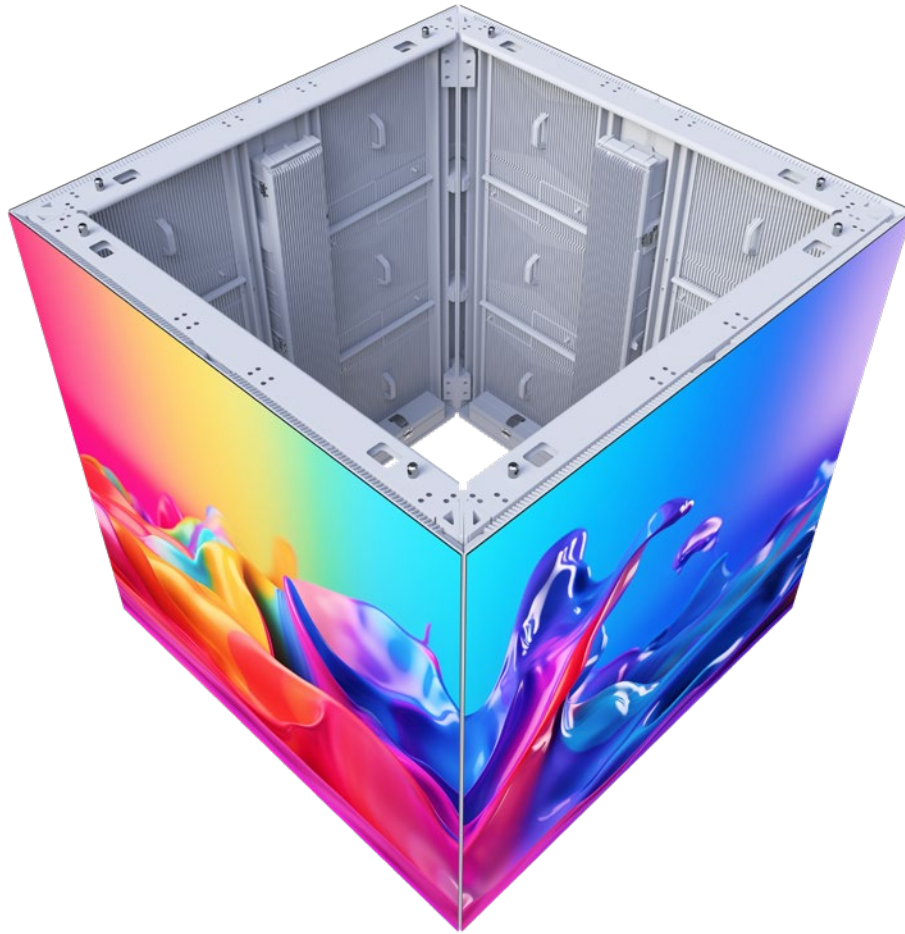
**ATS  
PRO**



# Air Convection Design for PSU

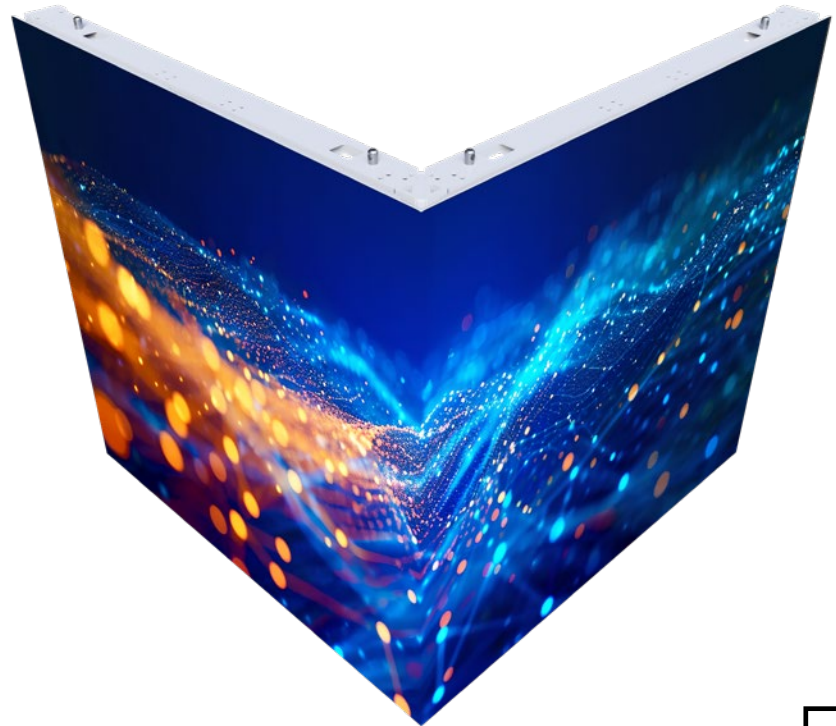
The panel features an advanced air dissipation system designed to regulate internal temperature and prevent moisture buildup. Its air convection design promotes steady airflow, ensuring balanced air pressure inside the power supply unit (PSU). Heat sink elements integrated into the module chassis and PSU significantly enhance heat dissipation. The white frame helps reflect sunlight, minimizing heat absorption, while dual ventilation holes on each side of the PSU maintain air pressure balance, preventing condensation when the ambient temperature drops.





## Perfect Corners

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



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# High Brightness

No matter the environment, high brightness matters for delivering flawless image clarity and maintaining superior picture quality, even in well-lit spaces or direct sunlight.



# CCES Technology

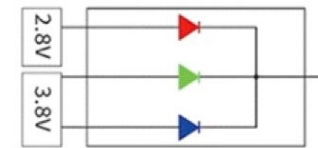
CCES is abbreviate for Common Cathode Energy Saving technology.

## Benefits:

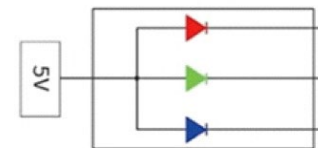
Accurate electricity distribution for RGB LED chips to save energy and lower the power consumption by more than 30%.

Less heat generated from electrical components prolongs the lifespan of the panel.

With a lower temperature inside the panel, electrical components can work more stably to provide better video quality.



Common Cathode Aluminum LED Display



Conventional LED Display



# Specifications

ATS-PRO Element 480 Series LED panel shown.

Specifications	EL480P5	EL480P6	EL480P8	EL480P10
LED Type	SMD2727 Gold or Copper Optional	SMD2727 Gold or Copper Optional	SMD3535 Gold or Copper Optional	SMD3535 Gold or Copper Optional
Pixel Pitch (mm)	5.7	6.67	8	10
Panel Dimensions (W*H)/(mm)	1,280x960	1,280x960	1,280x960	1,280x960
	1,280x640	1,280x640	1,280x640	1,280x640
	960x960	960x960	960x960	960x960
	960x640	960x640	960x640	960x640
	640x640	640x640	640x640	640x640
Module Resolution (pixels)	84*56	72*48	60*40	48*32
Panel Weight (kg/m²)	28	28	28	28
Panel Material	Aluminum	Aluminum	Aluminum	Aluminum
Module Dimensions (W*H)/(mm)	480mm x 320mm	480mm x 320mm	480mm x 320mm	480mm x 320mm
Brightness (nit)	6,500-8,000	6,500-8,000	6,500-10,000	6,500-10,000
Refresh Rate (Hz)	3,840Hz	3,840Hz	3,840Hz	3,840Hz
Grayscale (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
Color Temperature (K)	8,000	8,000	8,000	8,000
Viewing Angle (H/V) (°)	H-160°, V/Up-20°, V/Down-60°	H-160°, V/Up-20°, V/Down-60°	H-160°, V/Up-30°, V/Down-60°	H-160°, V/Up-30°, V/Down-60°
Driving Type	7 scan	6 scan	3 scan	3 scan
AC Operating Voltage (V)	100-240V	100-240V	100-240V	100-240V
Power Consumption (Max./Avg.) (W/m²)	580/174	580/174	550/165	550/165
Storage Temperature (°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
Storage Humidity (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
IP Rating (Front/Rear)	IP66	IP66	IP66	IP66
LED Lifetime (H)	10,000	10,000	10,000	10,000
Maintenance	Front/Rear	Front/Rear	Front/Rear	Front/Rear
Panel Installation Type	Fixed	Fixed	Fixed	Fixed
Certification	UL/ETL/FCC	UL/ETL/FCC	UL/ETL/FCC	UL/ETL/FCC

Specifications subject to change. Please contact ATS-Pro for updated specifications.







## Masters in the Art of LED

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