

ELEMENT 400 SERIES

Cool under pressure. Clear always.

Built for the Elements.
Made for Impact.



ALL-WEATHER
DURABILITY



EASY
MAINTENANCE



FRONT & REAR
SERVICEABILITY



RELIABLE
PERFORMANCE

ELEMENT 400 SERIES 6.6 mm, 8.3mm, 10.0mm,

ATS|PRO

16:9 Golden Ratio Design

with Flexible Panel Options

Engineered with a true 16:9 golden ratio, these SMD outdoor LED panels are ideal for creating seamless Full HD and 4K displays with perfect scaling. To suit various installation needs, the panels are available in multiple sizes—including 800×900mm, 800×1200mm, and 1200×900mm—offering greater design flexibility for both standard and custom layouts.



TRUE 16:9 GOLDEN RATIO

Perfect for seamless Full HD and 4K displays with ideal scaling.



MULTIPLE PANEL SIZES

Available in 800×900mm, 800×1200mm, and 1200×900mm.



FLEXIBLE INSTALLATION

Designed for various applications and custom layouts.



STUNNING VISUALS

Ideal for stadiums, transit hubs, and high-traffic environments.

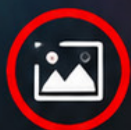
Ultra-High **Brightness** for Any Outdoor Environment

With an impressive brightness level of up to 10,000 nits, these panels ensure vibrant, crystal-clear visuals even in direct sunlight. The ultra-high brightness enhances visibility in any lighting condition, making them perfect for sports venues, public squares, and other high-impact outdoor applications.



10,000 NITS

Ultra-high brightness for direct sunlight visibility.



VIBRANT VISUALS

Crystal-clear, true-to-life colors in any lighting condition.



OUTDOOR READY

Ideal for sports venues, public squares, and high-impact applications.



ENHANCED VISIBILITY

Designed to perform in challenging environments.

Exceptional Engineering: Heat Dissipation

The aluminum module chassis and panel frame are engineered to accelerate heat dissipation, ensuring efficient thermal management. A dedicated heat sink design on both the module chassis and power supply unit further enhances cooling performance. Additionally, the white-colored frame reflects sunlight, helping to minimize heat absorption and reduce overall panel temperature.



ADVANCED HEAT DISSIPATION

Aluminum chassis designed for maximum thermal efficiency.



DEDICATED HEAT SINKS

Optimized cooling for modules and power supply units.



WHITE FRAME DESIGN

Reflects sunlight to minimize heat absorption and keep panels cooler.



RELIABLE PERFORMANCE

Stable operation even in high-temperature environments.

Front and Back Maintenance

Our modules feature a fast-lock design, allowing for quick and easy locking or unlocking with a simple tool—accessible from either the front or rear of the panel. This user-friendly system streamlines maintenance and minimizes downtime, making it ideal for time-sensitive installations.



FAST-LOCK DESIGN

Quick and easy locking or unlocking with a simple tool.



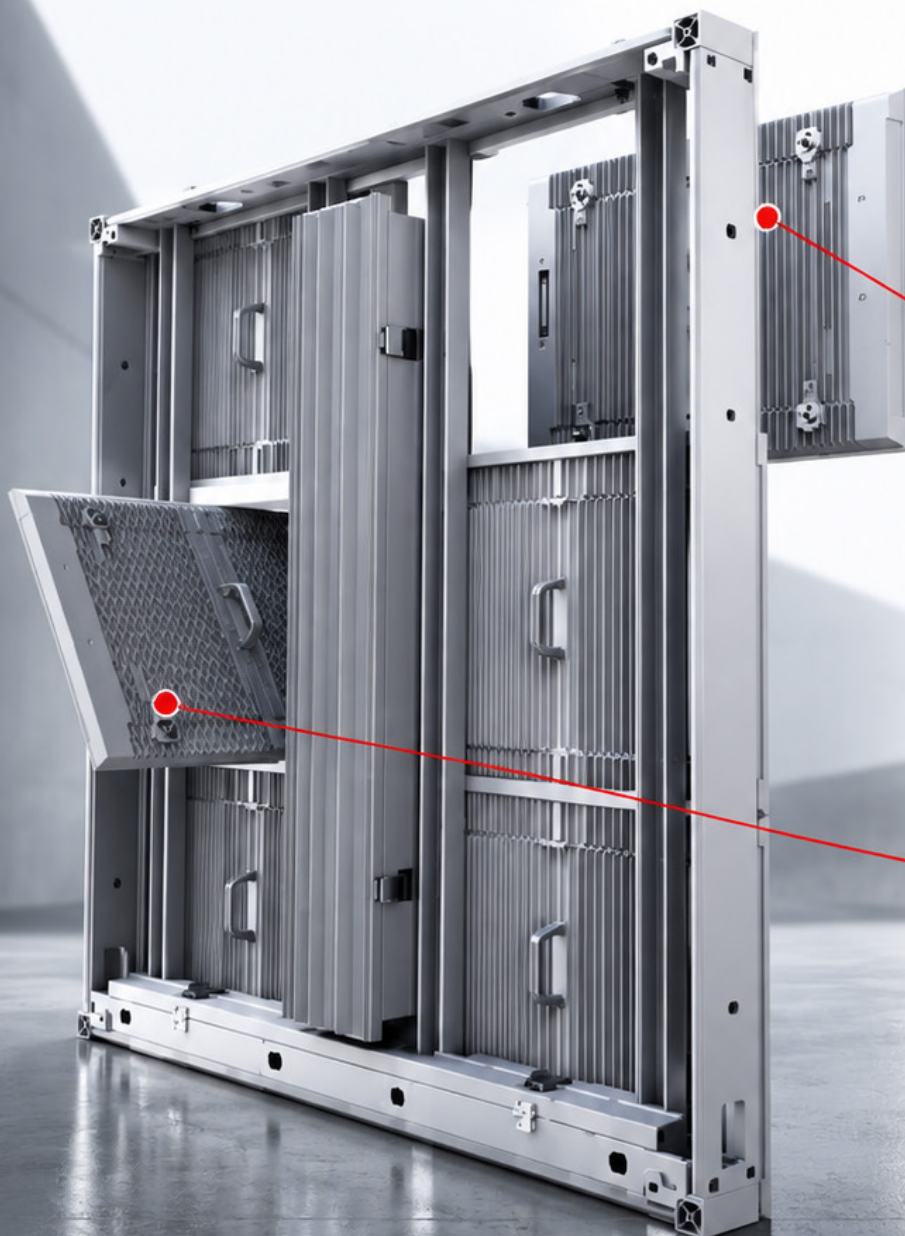
FRONT OR REAR ACCESS

Modules can be accessed from either the front or rear of the panel.



MINIMIZED DOWNTIME

User-friendly design streamlines maintenance for time-sensitive installations.



TOOL-FREE FAST-LOCK

Secure and simple module installation.



FRONT ACCESS

Quick module replacement from the front.

Protection Grade IP66

Built for reliable outdoor 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 all weather conditions.



SEALED CONNECTORS

Prevents water ingress between modules and frame.



OUTDOOR-RATED CABLES

Stable, secure power and data transmission with bottom routing.



SELF-CONTAINED COOLING

Efficient heat dissipation with energy-saving technology.

Cable Free Back

All cables are neatly concealed at the top of the cabinet, creating a clean, streamlined appearance while also reducing the risk of accidental disconnection during transport, installation, or maintenance. This thoughtful design not only enhances aesthetics but also improves overall reliability and safety.



CLEAN APPEARANCE

Concealed cables for a streamlined, professional look.



IMPROVED RELIABILITY

Reduces the risk of accidental disconnection.



ENHANCED SAFETY

Secure and protected cable routing design.

CCES Technology

CCES is an abbreviation for Common Cathode Energy Saving technology.

Key Benefits:



Lower Power Consumption

Accurate electricity distribution for RGB LED chips can save energy and reduce power consumption by more than 30%.



Less Heat Generation

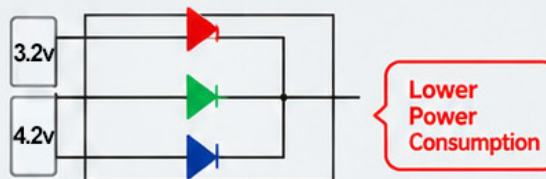
Less heat from electrical components prolongs the lifespan of the panel.



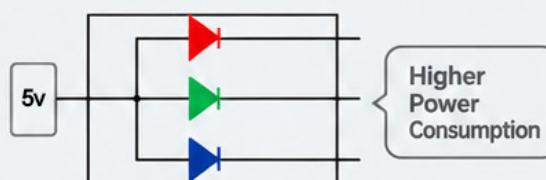
Stable Performance

A lower temperature inside the panel helps electrical components work more stably, providing better video quality.

Common Cathode Aluminum LED Display (CCES)



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.



FIRE-RESISTANT MATERIALS

Compliant with UL 94 5VB standards.



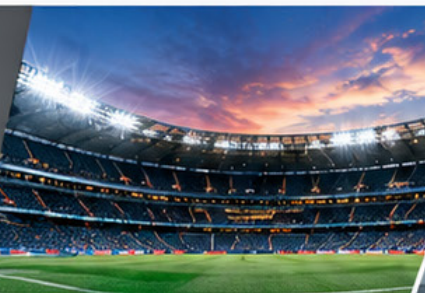
OUTDOOR READY

Reliable performance in all weather conditions.



SAFE & RELIABLE

Engineered for long-term durability and user safety.



STADIUMS



TRANSIT HUBS



HIGH-TRAFFIC ENVIRONMENTS



PUBLIC SQUARES

Specifications

ATS-PRO 400 Series LED panel shown.

Specifications	EL400P6	EL400P8	EL400P10
LED Type	SMD2727	SMD3535	SMD3535
Pixel Pitch (mm)	6.6	8.33	10
Panel Dimensions (W*H)/(mm)	800x1200x86 800x900x86	800x1200x86 800x900x86	800x1200x86 800x900x86
Pixel Per Panel	120x180 120x135	96x144 96x108	80x120 80x90
Panel Weight (kg/m ²)	30	30	30
Panel Material	Aluminum	Aluminum	Aluminum
Module Dimensions (W*H)/(mm)	400mm x 300mm	400mm x 300mm	400mm x 300mm
Brightness (nit)	6,500-10,000	6,500-10,000	6,000-10,000
Refresh Rate (Hz)	3,840Hz	3,840Hz	3,840Hz
Grayscale (bit)	14-16 bit	14-16 bit	14-16 bit
Contrast Ratio	10,000:1	10,000:1	10,000:1
Color Temperature (K)	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°
Driving Type	6 scan	3 scan	3 scan
AC Operating Voltage (V)	100-240V	100-240V	100-240V
Power Consumption (Max./Avg.) (W/m ²)	580/174	550/165	550/165
Storage Temperature (°C)	-40~+60°C	-40~+60°C	-40~+60°C
Operating Temperature (°C)	-40~+55°C	-40~+55°C	-40~+55°C
Storage Humidity (RH)	10%~60%RH	10%~60%RH	10%~60%RH
Operating Humidity (RH)	10%~95%RH	10%~95%RH	10%~95%RH
IP Rating (Front/Rear)	IP66	IP66	IP66
LED Lifetime (H)	100,000	100,000	100,000
Module Maintenance	Front/Rear	Front/Rear	Front/Rear
PSU & Other Maintenance	Front/Rear	Front/Rear	Front/Rear
Panel Installation Type	Fixed	Fixed	Fixed
Certification	ETL/FCC	ETL/FCC	ETL/FCC

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



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