



Product Overview

XAB Series are high-performance outdoor LED display cabinets crafted with high-density extruded aluminum profiles and full-aluminum module housings. Featuring 7680Hz ultra-high refresh rate and 14-bit full-area grayscale, it delivers delicate, glare-free visuals with up to 10,000 cd/m² high brightness for clear outdoor viewing under direct sunlight. Equipped with passive blade heat dissipation, it requires no cooling air conditioners for efficient temperature control. With IP68 front and IP66 rear protection, dual signal redundancy and hot-swappable modules, it ensures ultra-low failure rates and excellent all-weather stability. Adopting hexagonal LED beads, it achieves 25% lower power consumption than conventional screens. Lightweight and durable, it suits advertising, plazas, traffic guidance, stadiums and various large outdoor events.

Suitable for applications including:

- ✓ Commercial Advertising Displays
- ✓ Urban Commercial Plazas
- ✓ Traffic Guidance Terminals
- ✓ Urban Landscape Signage
- ✓ Sports Stadiums & Venues
- ✓ Cultural Performance Stages
- ✓ Large-Scale Outdoor Events
- ✓ Public Transport Hubs
- ✓ Tourist Attraction Exhibitions
- ✓ City Outdoor Information Boards



Key Features

1. High-density full aluminum cabinet for ultra flatness and passive heat dissipation
2. No air conditioner required, greatly reducing overall operation cost
3. Up to 10000 cd/m² high brightness, clear display under strong sunlight
4. 7680Hz ultra-high refresh rate and 14-bit grayscale for delicate color performance
5. IP68 front & IP66 rear waterproof and dustproof for full weather resistance
6. Dual signal backup design effectively avoids signal failure risk
7. Hard connection and anti-interference structure ensure ultra-low failure rate
8. Advanced hexagonal LED beads save 25% energy than traditional screens
9. Uniform temperature rise slows down LED aging for longer service life
10. Ultra-low light decay maintains stable brightness and color consistency
11. Front and rear dual maintenance design for easy and fast servicing
12. Hot-swappable module structure improves on-site installation efficiency
13. Ultra-light & ultra-thin aluminum cabinet for flexible installation
14. Wide viewing angle delivers consistent visual effect in all directions
15. 100,000 hours long lifespan for long-term commercial outdoor operation

Technical specifications

Model	VT-XAB2.9S	VT-XAB3.9S	VT-XAB4.8S	VT-XAB6.2S
Pixel Pitch (mm)	2.97	3.91	4.81	6.25
Module Resolution (W*H)	168*84	128*64	104*52	80*40
Module Size (W*H)	500mm * 250mm			
Maintenance	Front / Rear Accessible			
Protection Level	Front IP68 / Rear IP66			
Cabinet Flatness (mm)	≤0.4			
Color Temperature	2000K~15000K Adjustable			
Viewing Angle	H: ≥160°, V: ≥140°			
Avg Power Consumption (W/m ²)	≤185			
Power Supply	AC100~240V			
Refresh Rate (Hz)	7680			
Frame Rate (Hz)	50/60			
LED Lifespan (Typical)	100,000 Hours			
Operating Temp / Humidity	-20℃ ~ +60℃ / 10~90% RH			