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INNOVATIVE VISUAL TECHNOLOGIES

# FA1 PRO

## Outdoor Front and Rear Access LED Display

## P2.9, P3.9, P4.8,P5.71, P6.67, P8 and P10

- Lightweight
- High stability
- Cable Free
- Super Cost-effective
- 14bits ~ 22bits
- 50% Energy Saved
- Aluminum cabinet
- IP66

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## Slim and lightweight design

The aluminum cabinet is designed to be 23kgs/sqm lighter than conventional cabinets in the market. Lighter cabinets provide more convenience for installation. Multiple panel sizes can be easily assembled into a big screen of different dimensions.

- 960(w)mm x 960(h)mm / 500(w)mm×1000(h)mm / 500(w)mm×750(h)mm /500(w)mm×500(h)mm
- 82mm thickness
- 23kgs/sqm weight

The pixel pitch P2.9, P3.9, P4.8,P5.71, P6.67, P8 and P10 are available.

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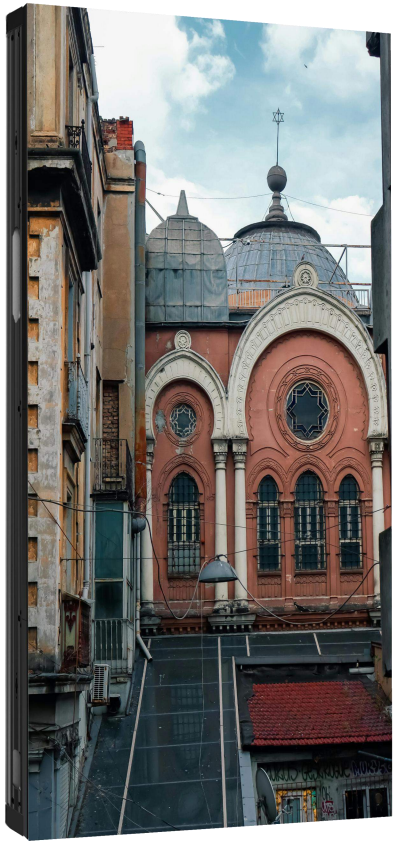
## Front and Rear Access

The power supply, receiving card, and module can be removed from the front or rear side. This kind of concise and easy design allows removing and replacing modules fast in an emergency, especially when the technician wonders which part has issues. Fast problem-solving saves a large amount of labor costs.



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## Good heat dissipation

All aluminum material is more durable and highly stable than traditional steel. Meanwhile, heat dissipation of aluminum is much better than others in the market. As the electronic components can be cooled down quickly, their lifespan will be longer.

The module and power supply are separate, and the heat they generate will not affect each other after being lit. In addition, the power box has a striped design, which increases the contact surface with the air, so the heat dissipation is better.

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## Cable free module with signal row pin socket

This design doesn’t require the ribbon cable, so the signal connection of the modules is much better than common designs in the market.

What’s more, we use single row pin sockets, its characteristics are:
High precision: Its precise pin spacing ensures stable connections between electronic components and improves the overall performance of the circuit board.
High reliability: It is made of high-quality materials, has good electrical conductivity and corrosion resistance, and can ensure the stable operation of the circuit.

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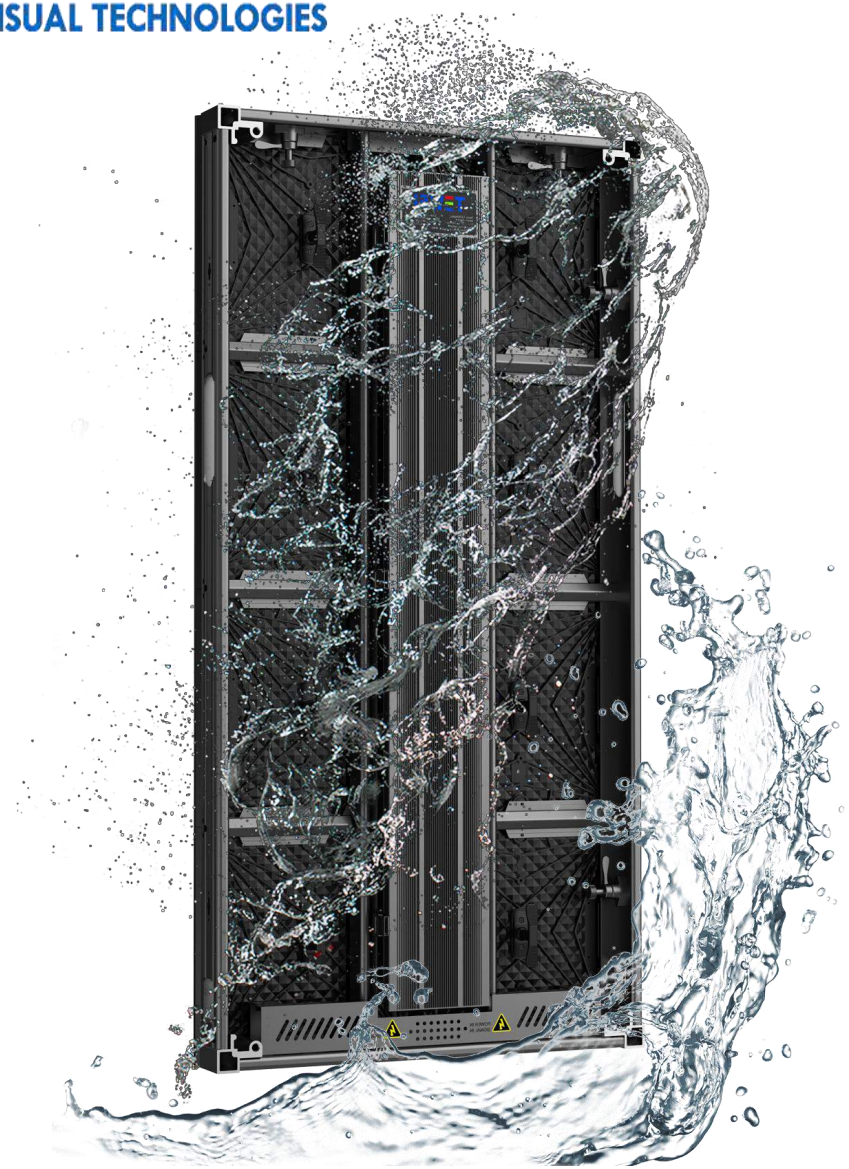

## Protective Method: IP 66

The LED screen in outdoor scenes will face more challenges than the indoor ones such as the damage of dust and water. To make the LED screen function safely and stably in outdoor scenes, we adopt advanced protective methods to withstand heavy rain and strong winds for a long time. The IP66 design can isolate electronic parts from humidity and dust, so the screen is more reliable.

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## Hight Brightness up to 10,000nits

To display clearly what is on the LED screen in outdoor scenes, we adopt the new methods of superior PCB design and LED chip to make brightness reach more than 10000nits. With the ultra-high brightness, refresh rate, and gray scale, the visual performance of the screen is unexceptionable.

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## High refresh rate and high grayscale

A refresh rate greater than or equal to 3840Hz is used to capture high dynamic range images, which helps to eliminate scan lines and flickering on the display. A high grayscale level of 14bits-22bits ensures excellent visual quality, and the LED display provides vivid visual effects.

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## Applications

To fit every different scene, our products utilize superior materials with a concise and strong structure, and various installation methods make it flexible and easy to apply.

This product is usually used in：

- **Truck Trailers;**
- **Scoreboards;**
- **Digital Out Of Home(DOOH).**



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# FA1 PRO Parameters

| Item | P2.9 | P3.9 | P4.8 |
|---|---|---|---|
| Pixel Pitch | 2.9mm | 3.9mm | 4.8mm |
| LED Type | SMD1415 | SMD1921 | SMD1921 |
| Module Resolution | 84dots×84dots | 64dots×64dots | 52dots×52dots |
| Driving Mode | 1/14scan | 1/8scan | 1/7scan |
| Module Pixels | 7056dots | 4096dots | 2704dots |
| Module Size | 250mm×250mm | 250mm×250mm | 250mm×250mm |
| Cabinet Size(mm) | 500×500×82/500×750×82/500×1000×82 | 500×500×82/500×750×82/500×1000×82 | 500×500×82/500×750×82/500×1000×82 |
| Cabinet Resolution | 168dots×336dots | 128dots×256dots | 104dots×208dots |
| Pixel Density | 112,896dots/㎡ | 65,536dots/㎡ | 43,264dots/㎡ |
| Minimum Viewing Distance | ≥2.9 m | ≥3.9 m | ≥4.8 m |
| Brightness | 4500nits ~ 5000nits | 5500nits- 6000nits | 5500nits- 6000nits |
| IP Grade | IP66 | IP66 | IP66 |
| Refresh Rate | ≥3840Hz | ≥3840Hz | ≥3840Hz |
| Gray Scale | 14bits~22bits | 14bits~22bits | 14bits~22bits |
| Viewing Angle | H:160° / V:160° | H:160° / V:160° | H:160° / V:160° |
| Maximum Power Consumption | 620W/m² | 620W/m² | 620W/m² |
| Average Power Consumption | 160W/m² | 160W/m² | 160W/m² |
| Input Voltage | AC110V-220V@ 50Hz/60Hz | AC110V-220V@ 50Hz/60Hz | AC110V-220V@ 50Hz/60Hz |
| Operating Temperature | -20℃~60℃ | -20℃~60℃ | -20℃~60℃ |
| Operating Humidity | 10%~90% | 10%~90% | 10%~90% |
| Cabinet Material | Aluminum | Aluminum | Aluminum |
| Cabinet Weight | 23kg/sqm | 23kg/sqm | 23kg/sqm |
| Operating System | Windows (Win7, Win8, etc.) | Windows (Win7, Win8, etc.) | Windows (Win7, Win8, etc.) |
| Signal Source Compatibility | DVI,HDMI1.3,DP1.2,SDI,HDMI2.0,etc. | DVI,HDMI1.3,DP1.2,SDI,HDMI2.0,etc. | DVI,HDMI1.3,DP1.2,SDI,HDMI2.0,etc. |

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# FA1 PRO Parameters

| Item | P5.71 | P6.67 | P8 | P10 |
|---|---|---|---|---|
| Pixel Pitch | 5.71mm | 6.67mm | 8mm | 10mm |
| LED Type | SMD2727 | SMD2727 | SMD2727 | SMD2727 |
| Module Resolution | 84dots x 56dots | 72dots x 48dots | 60dots x 40dots | 48dots x 32dots |
| Driving Mode | 1/7scan | 1/6scan | 1/4scan | 1/2scan |
| Module Pixels | 4704dots | 3456dots | 2400dots | 1536dots |
| Module Size | 480mm x 320mm | 480mm x 320mm | 480mm x 320mm | 480mm x 320mm |
| Cabinet Size(mm) | 960 x960×82 | 960 x960×82 | 960 x960×82 | 960 x960×82 |
| Cabinet Resolution | 168dots x 168dots | 144dots x 144dots | 120dots x 120dots | 96dots x 96dots |
| Pixel Density | 30,671dots/㎡ | 22,478dots/㎡ | 15,625dots/㎡ | 10,000dots/㎡ |
| Minimum Viewing Distance | ≥5.71 m | ≥6.67 m | ≥8 m | ≥10 m |
| Brightness | 5000nits ~ 10000nits | 5000nits ~ 10000nits | 5000nits ~ 10000nits | 5000nits ~ 10000nits |
| IP Grade | IP66 | IP66 | IP66 | IP66 |
| Refresh Rate | ≥3840Hz | ≥3840Hz | ≥3840Hz | ≥3840Hz |
| Gray Scale | 14bits~22bits | 14bits~22bits | 14bits~22bits | 14bits~22bits |
| Viewing Angle | H:160° / V:160° | H:160° / V:160° | H:160° / V:160° | H:160° / V:160° |
| Maximum Power Consumption | 560W/m² | 560W/m² | 560W/m² | 560W/m² |
| Average Power Consumption | 160W/m² | 160W/m² | 160W/m² | 160W/m² |
| Input Voltage | AC110V-220V@ 50Hz/60Hz | AC110V-220V@ 50Hz/60Hz | AC110V-220V@ 50Hz/60Hz | AC110V-220V@ 50Hz/60Hz |
| Operating Temperature | - 20℃ ~ 60℃ | - 20℃ ~ 60℃ | - 20℃ ~ 60℃ | - 20℃ ~ 60℃ |
| Operating Humidity | 10%~90% | 10%~90% | 10%~90% | 10%~90% |
| Cabinet Material | Aluminum | Aluminum | Aluminum | Aluminum |
| Cabinet Weight | 23kg/sqm | 23kg/sqm | 23kg/sqm | 23kg/sqm |
| Operating System | Windows (Win7, Win8, etc.) | Windows (Win7, Win8, etc.) | Windows (Win7, Win8, etc.) | Windows (Win7, Win8, etc.) |
| Signal Source Compatibility | DVI,HDMI1.3,DP1.2,SDI,HDMI2.0,etc. | DVI,HDMI1.3,DP1.2,SDI,HDMI2.0,etc. | DVI,HDMI1.3,DP1.2,SDI,HDMI2.0,etc. | DVI,HDMI1.3,DP1.2,SDI,HDMI2.0,etc. |