# FA1 Series

Outdoor Front Service LED Display-P3.9, P4.8, P6, P8, P10



⚙ Front Maintenance    ☼ Up to 10000nits    👁 Wide Viewing Angle    👍 Excellent Performance

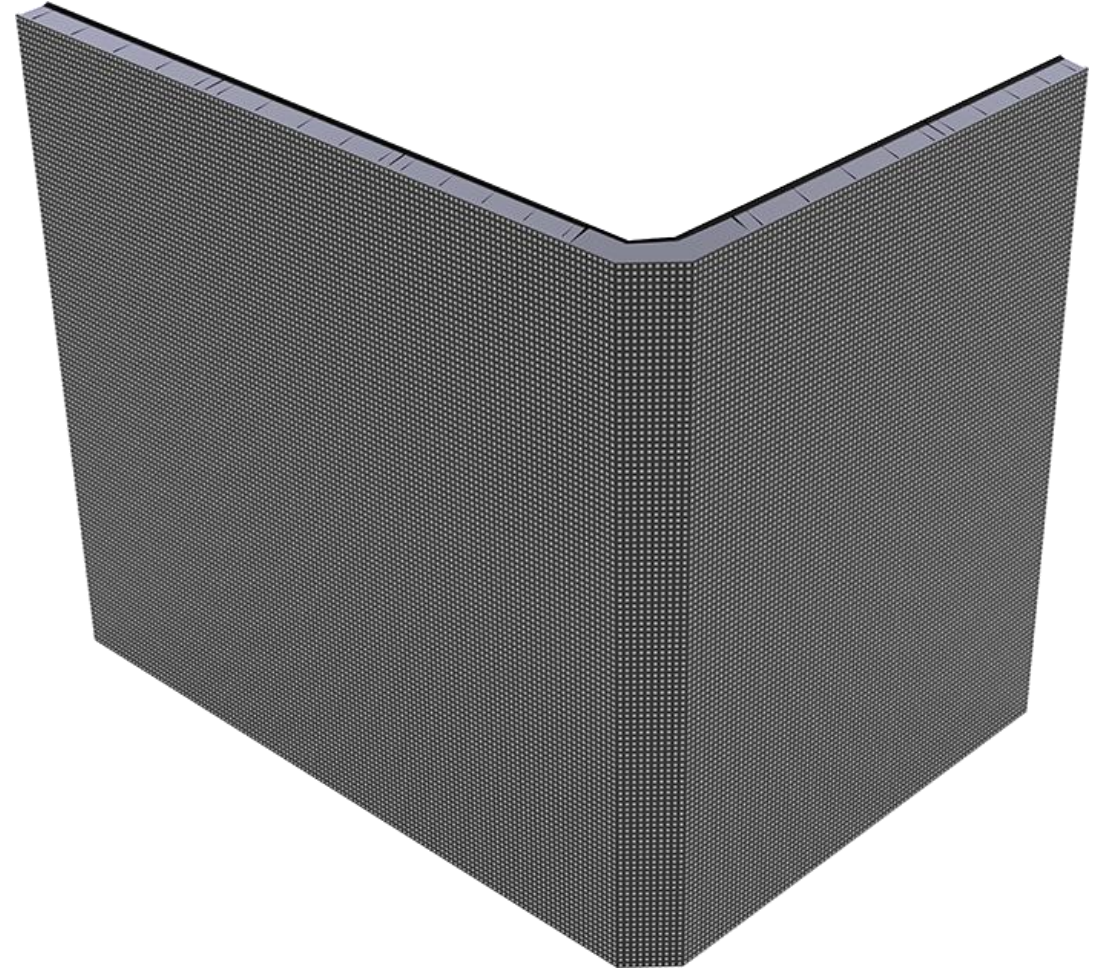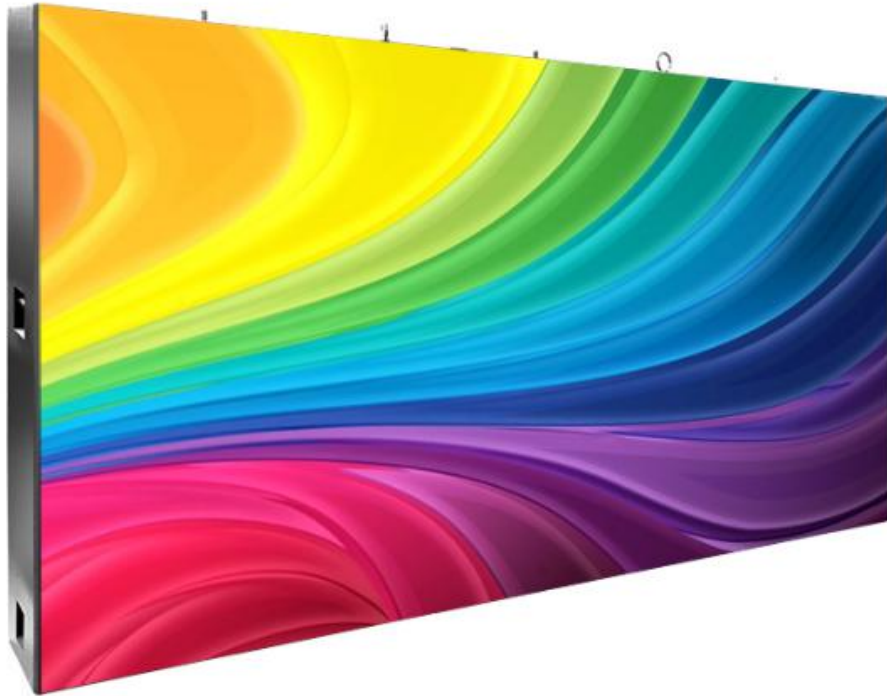HD High Definition    ◼ 13bits ~ 16bits    ⟳ 1920Hz ~ 3840Hz    💧 High IP Level

**Innovative Cabinet Design**

The FA1 cabinet has a unique and innovative feature: The modules can be spliced into a 90 degree angle seamlessly, without the black line. This feature allows the screen to fit 90 degree shape wall-mounted installation perfectly.

## Premium LED Screen for Outdoor Advertising

Designed for outdoor advertising, our FA1 series has been proved to be a very successful front access LED screen. To make the LED display stable and reliable, we have carefully selected high-quality materials.

### The pixel pitches are
SMD LED module: P3.9, P4.8, P5, P6.1, P6.6, P8, P10
DIP LED module: P10, P16, P20

## High Brightness

The brightness of this outdoor advertising display can be up to 10,000nits. So the display content will still look very clear in direct sunlight.

## Lower Attenuation

The LED screen is still bright enough in the sun after 6 years.

## Less Power Consumption

We have adopted the unique design. This LED cabinet consumes 30% less power than the other similar products in the market.
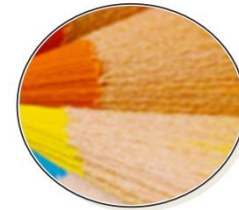
High Brightness
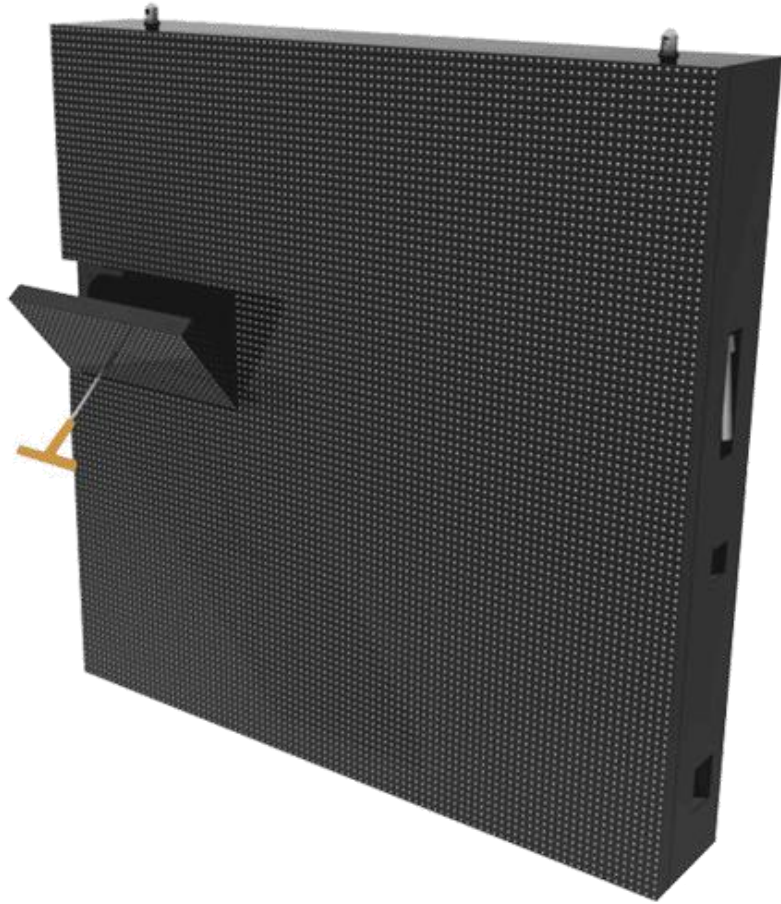
## Fully Front Access Design

With fully front access design, all components, such as power box, receiving card and other accessories, can be removed in the front of the LED cabinets.

## 103mm Thickness and Neat Back

The LED screen panel can be very thin and its back is neat, so it can be directly mounted on the wall. You don't need to leave any space in the back.

## High Protection Grade

This outdoor LED cabinet can be designed to be no door, no fan and no ventilation. Therefore, the protective grade is higher than IP65. That's to say, the LED display can function well in dusty roadside and seashore.

## Wide Viewing Angle

We use high-quality plastic mask on the LED modules, which makes the LED screen very flat. Thus, the viewing angle is wider than that of other LED products. Moreover, the LED display is able to attract more audience.

## Great Performance

We adopt the scientific design to reach 3840Hz refresh rate and 14bits grayscale. So the LED video screen won't look flickering in the camera and the visual effect will also look even more amazing.

## Multiple Functions

FA1 full color LED displays are mainly for outdoor advertising. They have been sold to many countries, including Australia, Qatar, Saudi, Thailand, etc. Those countries have very strong sunlight or high humidity. This product is usually used in:

- Mall Advertisement;
- Stadiums scoreboard;
- Road billboard, etc.

## FA1 Parameters

| Item | P3.9 | P4.8 | P5 | P6 | P6.1 | P6.6 |
|---|---|---|---|---|---|---|
| Pixel Pitch | P3.906mm | 4.807mm | 5mm | 6mm | 6.154mm | 6.667mm |
| LED Type | SMD1921 | SMD1921 | SMD1921 | SMD1921 | SMD1921 | SMD2727 |
| Module Resolution | 64dots × 64dots | 52dots × 52dots | 64dots × 32dots | 40dots × 40dots | 52dots × 26dots | 48dots × 24dots |
| Driving Mode | 1/8scan | 1/7scan | 1/8scan | 1/5scan | 1/7scan | 1/6scan |
| Module Pixels | 4,096dots | 2,704dots | 2,048dots | 1,600dots | 1,352dots | 1,152dots |
| Module Size | 250mm × 250mm | 250mm × 250mm | 320mm × 160mm | 240mm × 240mm | 320mm × 160mm | 320mm × 160mm |
| Cabinet Size | 1,000mm × 1,000mm | 1,000mm × 1,000mm | 960mm × 960mm | 960mm × 960mm | 960mm × 960mm | 960mm × 960mm |
| Cabinet Resolution | 256dots × 256dots | 208dots × 208dots | 192dots ×192dots | 160dots ×160dots | 156dots × 156dots | 144dots × 144dots |
| Pixel Density | 65,536dots/m² | 43,264dots/m² | 40,000dots/m² | 27,777dots/m² | 26,406dots/m² | 22,500dots/m² |
| Minimum Viewing Distance | ≥3.9m | ≥4.8m | ≥5m | ≥6m | ≥6.1m | ≥6.6m |
| Brightness | 6,000nits~7,000nits | 6,000nits~7,000nits | 6,000nits~7,000nits | 6,000nits~7,000nits | 6,000nits~7,000nits | 5,500nits~10,000nits |
| IP Grade | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 |
| Refresh Rate | 1,920Hz~3,840Hz | 1,920Hz~3,840Hz | 1,920Hz~3,840Hz | 1,920Hz~3,840Hz | 1,920Hz~3,840Hz | 1,920Hz~3,840Hz |
| Gray Scale | 13bits~24bits | 13bits~24bits | 13bits~24bits | 13bits~24bits | 13bits~24bits | 13bits~24bits |
| Viewing Angle | H:160° / V:160° | H:160° / V:160° | H:160° / V:160° | H:160° / V:160° | H:160° / V:160° | H:160° / V:160° |
| Maximum Power Consumption | 800W/m² | 800W/m² | 800W/m² | 800W/m² | 800W/m² | 800W/m² |
| Average Power Consumption | 230W/m² | 230W/m² | 230W/m² | 230W/m² | 230 W/m² | 230W/m² |
| Input Voltage | AC110V~AC220V @ 50Hz / 60Hz | AC110V~AC220V @ 50Hz / 60Hz | AC110V~AC220V @ 50Hz / 60Hz | AC110V~AC220V @ 50Hz / 60Hz | AC110V~AC220V @ 50Hz / 60Hz | AC110V~AC220V @ 50Hz / 60Hz |
| Operating Temperature | - 20℃~65℃ | - 20℃~65℃ | - 20℃~65℃ | - 20℃~65℃ | - 20℃~65℃ | - 20℃~65℃ |
| Operating Humidity | 10%~90% | 10%~90% | 10%~90% | 10%~90% | 10%~90% | 10%~90% |
| Cabinet Material | Iron / Aluminum | Iron / Aluminum | Iron / Aluminum | Iron / Aluminum | Iron / Aluminum | Iron / Aluminum |
| Cabinet Weight | 60kg/m² or 45kg/m² | 60kg/m² or 45kg/m² | 60kg/m² or 45kg/m² | 60kg/m² or 45kg/m² | 60kg/m² or 45kg/m² | 60kg/m² or 45kg/m² |
| Operating System | Windows (Win7, Win8, etc.) | Windows (Win7, Win8, etc.) | 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. | DVI, HDMI1.3, DP1.2, SDI, HDMI2.0, etc. | DVI, HDMI1.3, DP1.2, SDI, HDMI2.0, etc. |

## FA1 Parameters

| Item | P8 | P10 | P10 | P16 | P20 |
|---|---|---|---|---|---|
| Pixel Pitch | 8mm | 10mm | 10mm | 16mm | 20mm |
| LED Type | SMD2727 | SMD2727 | DIP346 | DIP346 | DIP346 |
| Module Resolution | 40dots × 40dots | 32dots × 32dots | 32dots × 16dots | 20dots × 10dots | 16dots × 8dots |
| Driving Mode | 1/4scan | 1/2scan | 1/4scan | static | static |
| Module Pixels | 1,600dots | 1,024dots | 512dots | 200dots | 128dots |
| Module Size | 320mm × 320mm | 320mm × 320mm | 320mm × 160mm | 320mm × 160mm | 320mm × 160mm |
| Cabinet Size | 960mm × 960mm | 960mm × 960mm | 960mm × 960mm | 960mm × 960mm | 960mm × 960mm |
| Cabinet Resolution | 120dots × 120dots | 96dots × 96dots | 96dots × 96dots | 60dots × 60dots | 48dots × 48dots |
| Pixel Density | 15,625dots/$m^2$ | 10,000dots/$m^2$ | 10,000 dots/$m^2$ | 3,906dots/$m^2$ | 2,500dots/$m^2$ |
| Minimum Viewing Distance | ≥8m | ≥10m | ≥10m | ≥16m | ≥20m |
| Brightness | 5,500nits～10,000nits | 5,500nits～10,000nits | 6,500nits～7,500nits | 7,000nits～10,000nits | 5,500nits～6,500nits |
| IP Grade | IP65 | IP65 | IP65 | IP65 | IP65 |
| Refresh Rate | 1,920Hz～3,840Hz | 1,920Hz～3,840Hz | 1,920Hz～3,840Hz | 1,920Hz～3,840Hz | 1,920Hz～3,840Hz |
| Gray Scale | 13bits～24bits | 13bits～24bits | 13bits～24bits | 13bits～24bits | 13bits～24bits |
| Viewing Angle | H:160° / V:160° | H:160° / V:160° | H:120° / V:60° | H:120° / V:60° | H:120° / V:60° |
| Maximum Power Consumption | 800W/$m^2$ | 800W/$m^2$ | 800W/$m^2$ | 800W/$m^2$ | 800W/$m^2$ |
| Average Power Consumption | 230W/$m^2$ | 230W/$m^2$ | 230W/$m^2$ | 230W/$m^2$ | 230W/$m^2$ |
| Input Voltage | AC110V～AC220V @ 50Hz/60Hz | AC110V～AC220V @ 50Hz/60Hz | AC110V～AC220V @ 50Hz / 60Hz | AC110V～AC220V @ 50Hz / 60Hz | AC110V～AC220V @ 50Hz / 60Hz |
| Operating Temperature | - 20℃～65℃ | - 20℃～65℃ | - 20℃～65℃ | - 20℃～65℃ | - 20℃～65℃ |
| Operating Humidity | 10%～90% | 10%～90% | 10%～90% | 10%～90% | 10%～90% |
| Cabinet Material | Iron / Aluminum | Iron / Aluminum | Iron / Aluminum | Iron / Aluminum | Iron / Aluminum |
| Cabinet Weight | 60kg/$m^2$ or 45kg/$m^2$ | 60kg/$m^2$ or 45kg/$m^2$ | 60kg/$m^2$ or 45kg/$m^2$ | 60kg/$m^2$ or 45kg/$m^2$ | 60kg/$m^2$ or 45kg/$m^2$ |
| Operating System | Windows (Win7, Win8, etc.) | 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. | DVI, HDMI1.3, DP1.2, SDI, HDMI2.0, etc. |