

Outdoor Fixed LED Screen Datasheet

Weather-sealed LED cabinets with IP65 protection and 10,000 nits brightness for permanent outdoor installation, featuring front or rear service access, die-cast aluminium chassis for heat dissipation, and modular sizes including 960x640mm, 1440x960mm and 1440x640mm, designed for long-term reliability in harsh environments.

Why These Cabinets

- IP65 protection on both front and rear sides ensures dust and water resistance for outdoor durability
- Die-cast aluminium chassis with self-dissipating heat design improves long-term reliability and reduces cooling needs
- Front or rear service access allows module replacement from either side, depending on site constraints
- Brightness up to 10,000 nits ensures visibility under direct sunlight without glare or washout
- Energy-saving circuit design reduces power consumption by over 30% compared to traditional outdoor displays
- Cabinet sizes available in 960x640mm, 1440x960mm, and 1440x640mm for flexible layout planning
- 90-degree splicing with curved corner design ensures seamless, gap-free visual continuity
- UV-proof SMD three-in-one technology maintains colour stability and image quality over time

Who Buys This Category

- AV system integrators installing permanent LED billboards and digital facades
- DOOH media owners deploying high-brightness screens in urban outdoor locations
- Shopping mall and retail chain operators needing durable, low-maintenance screens for storefronts
- Government or corporate entities installing large-format displays in public spaces
- Exhibition contractors building permanent or semi-permanent outdoor installations

Products

Outdoor Fixed With Front Service

Outdoor Fixed LED Screen

A front and rear serviceable outdoor LED screen built on a die-cast aluminium module chassis, designed for permanent facade, roadside and stadium installations where the back of the wall sits against a building. Brightness reaches 10000 nits so the image holds up in direct sun, and IP65 sealing on both faces lets the cabinet sit outdoors without a service enclosure. Standard cabinet sizes are 960x640mm, 1440x960mm and 1440x640mm.

Installation	Outdoor fixed
Service Access	Front and rear
Cabinet Sizes	960x640mm, 1440x960mm, 1440x640mm
Peak Brightness	Up to 10000 nits
Ingress Protection	IP65 front and rear
Cabinet Material	High-strength aluminium profile with die-cast aluminium module chassis
Lamp Type	Outdoor SMD three-in-one, UV-proof
Energy Saving	More than 30 percent against traditional outdoor displays

Design Life	Up to ten years
Corner Splicing	90 degrees with curved corner parts

Key Benefits

- Front service access means the screen can be mounted flat against a wall with no rear maintenance corridor
- Die-cast aluminium chassis carries heat out of the module so no air conditioning is needed behind the wall
- Energy saving circuit design cuts power draw by more than 30 percent against traditional outdoor displays
- 10000 nits peak brightness keeps content readable in direct sunlight on south-facing facades
- IP65 on both the front and the rear face, with aviation-grade connectors on the signal and power runs
- 90 degree corner splicing with curved corner parts so right-angle walls close without a visible gap line

Block Series

Outdoor Fixed LED Screen

A rear-serviceable outdoor fixed LED screen with a profile metal cabinet designed for permanent installations on building facades, stadiums, and public spaces. The cabinet uses a solid metal structure for stability and efficient heat extraction. Pixel pitch options include 3.076, 4, 5, 6.67, 8, and 10mm to match viewing distances. Standard module size is 320x160mm, and the screen is built for outdoor use with no internal enclosure required.

Installation	Outdoor fixed
Service Access	Rear service
Pixel Pitch	3.076mm, 4mm, 5mm, 6.67mm, 8mm, 10mm
Module Size	320x160mm
Cabinet Material	Profile metal cabinet
Heat Extraction	Efficient through solid metal cabinet structure
Environmental Use	Outdoor
Mounting Type	Fixed, no enclosure required
Service Type	Rear service
Cabinet Stability	Solid metal profile for wind and vibration resistance

Key Benefits

- Profile metal cabinet provides structural stability and long-term durability in outdoor environments
- Efficient heat extraction from the cabinet design reduces thermal stress on modules
- Rear service access allows maintenance without removing the screen from the wall
- Multiple pixel pitch options let the screen match the intended viewing distance
- Solid metal construction resists deformation under wind load and vibration
- No internal enclosure needed—cabinet is sealed and stable for direct outdoor mounting

Outdoor Fixed With High Definition

Outdoor Fixed LED Screen

An outdoor fixed LED screen with high definition and a minimum pixel pitch of 2.5mm, built on a 960x960mm die-cast aluminium cabinet. The cabinet is slim and lightweight, weighing only 32kg per square metre. Designed for permanent outdoor installations with strong adaptability to harsh environments, including salt exposure. The frame has a clean, modern appearance suitable for urban and commercial facades.

Installation	Outdoor fixed
Service Access	Front only
Cabinet Size	960x960mm
Pixel Pitch	Minimum 2.5mm
Weight per Square Metre	32kg
Cabinet Material	Die-cast aluminium with high-strength aluminium frame
Environmental Resistance	Salt and weather resistant
Frame Design	Clean, seamless appearance
Heat Dissipation	Integrated die-cast aluminium heat path
Design Life	Long-term outdoor exposure

Key Benefits

- Minimum pixel pitch of 2.5mm delivers high-definition content at close viewing distances
- Slim and lightweight cabinet at 32kg per square metre reduces structural load and shipping cost
- Die-cast aluminium cabinet resists corrosion and performs well in salty coastal or industrial environments
- Clean frame design with no visible seams enhances visual continuity on large facades
- No rear service access required, enabling installation against walls with no maintenance corridor
- High-strength aluminium structure supports long-term outdoor exposure without deformation