

BRIGHTLUX

IP Rating & Serviceability

Protection Ratings & Service Access Guide for LED Displays

Understanding IP (Ingress Protection) ratings and service access requirements for LED displays in UAE and GCC environments.

IP RATING EXPLAINED

IP ratings follow the format IPXY where X = solid particle protection (0-6) and Y = liquid protection (0-9).

Rating	Solids Protection	Liquids Protection
IP20	Fingers (>12.5mm)	None
IP30	Tools (>2.5mm)	None
IP40	Wires (>1mm)	None
IP43	Wires (>1mm)	Spraying water (60 deg)
IP54	Dust-protected	Splashing water
IP65	Dust-tight	Water jets
IP67	Dust-tight	Temporary immersion
IP68	Dust-tight	Prolonged immersion

IP RATING BY APPLICATION (UAE/GCC)

Application	Min Front IP	Min Rear IP	Notes
Indoor (A/C room)	IP20	IP20	Standard indoor panels
Indoor (lobby/atrium)	IP30	IP20	Public area, splash risk
Indoor (F&B / kitchen)	IP43	IP20	Steam and grease
Semi-outdoor (canopy)	IP54	IP43	Dubai dust + occasional rain
Outdoor (permanent)	IP65	IP54	Full weather exposure
Outdoor (coastal)	IP65	IP65	Salt air corrosion risk
Outdoor (ground level)	IP65	IP54	Cleaning water exposure
Pool/water feature	IP67	IP65	Splash zone proximity

FRONT vs REAR SERVICE ACCESS

Front-service displays allow module replacement from the viewing side. This is critical when rear access is impossible.

Specify FRONT SERVICE when:

- Display is flush-mounted against a wall (no rear access corridor)
- High-rise building facade installation
- Ceiling-hung installation over public areas
- Architectural integration where rear void is sealed

Specify REAR SERVICE when:

- A service corridor (min 600mm deep) exists behind the display
- Indoor stadium/arena perimeter boards
- Free-standing or double-sided totems
- Budget is constrained (rear-service panels cost less)

BRIGHTLUX | Premium LED Display Solutions

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