

BRIGHTLUX

Outdoor & DOOH

Digital Out-of-Home LED Billboard Specification for UAE

Application-specific LED display specifications for architects, AV consultants, and project managers in the UAE and GCC.

1. HIGHWAY BILLBOARD

Parameter	Specification
Type	SMD outdoor cabinet
Pixel Pitch	P6 - P10 (viewing 20-80m)
Brightness	7,000 - 10,000 nits (direct UAE sun)
IP Rating	IP65 front, IP54 rear minimum
Operating Temp	-10C to +60C (Dubai summer critical)
Structure	Steel frame, wind-rated for local codes
Power	Dual redundant PSU, auto-brightness sensor
Compliance	Dubai Municipality / RTA approval required

2. BUILDING FACADE

Parameter	Specification
Type	Transparent LED or mesh LED
Pixel Pitch	P15 - P40 (long distance viewing)
Brightness	5,000 - 8,000 nits
Weight	< 15 kg/sqm (structural constraint)
Wind Load	Rated for local wind speeds
Transparency	50-80% to preserve building aesthetics
Maintenance	Rope-access or BMU compatible

3. STREET-LEVEL DIGITAL SIGN

Parameter	Specification
Type	Outdoor SMD cabinet
Pixel Pitch	P3.9 - P6 (close + medium viewing)
Brightness	5,500 - 7,000 nits
IP Rating	IP65 all-round
Service	Front-service mandatory (wall-mounted)
Vandal	Tempered glass or polycarbonate cover
Cooling	Forced air, filtered intake

VENDOR CHECKLIST

Before signing off on any LED display specification, confirm:

01. Technology type matches application requirements
02. Pixel pitch appropriate for actual viewing distance
03. Brightness specified at operating temperature (not lab 25C)
04. IP rating covers actual installation environment
05. Front or rear service matches physical access constraints
06. Redundancy level appropriate for criticality
07. Control system and content management platform confirmed
08. Structural and electrical requirements documented
09. Warranty terms and SLA clearly defined
10. Spare parts provision agreed
11. Installation and commissioning scope defined
12. Training for operators included

BRIGHTLUX | Premium LED Display Solutions

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