

BRIGHTLUX

Residential Cinema Wall

Home Theatre LED Wall Specification for Luxury Residences

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

1. DEDICATED HOME CINEMA ROOM

Parameter	Specification
Type	COB (best-in-class contrast for cinema)
Pixel Pitch	P0.9 - P1.5 (close viewing 2-4m)
Brightness	300 - 600 nits (dark room, HDR content)
Contrast	15,000:1+ ANSI (cinema-grade black levels)
Aspect	2.35:1 CinemaScope or 16:9
Size	3-6m diagonal typical for villa cinema
HDR	HDR10, Dolby Vision support essential
Processing	Premium processor (Novastar A10s or equivalent)

2. LIVING ROOM FEATURE WALL

Parameter	Specification
Type	MiP or COB (lifestyle aesthetics)
Pixel Pitch	P1.2 - P2.5
Brightness	600 - 1,000 nits (mixed lighting)
Size	2-4m wide typical
Content	TV, streaming, art display mode
Integration	Smart home automation (Control4, Crestron)
Ambient	Auto-brightness for day/night modes

3. OUTDOOR ENTERTAINMENT AREA

Parameter	Specification
Type	Outdoor-rated SMD or MiP
Pixel Pitch	P2.5 - P4
Brightness	3,000 - 5,000 nits (evening/night use)
IP Rating	IP65 minimum (pool, garden exposure)
Content	Sports, movies, ambient video
Weather	Rated for UAE climate (-10C to +55C)
Audio	Integrate with outdoor speaker system

4. INSTALLATION CONSIDERATIONS

Parameter	Specification
Power	Dedicated circuit, whole-house UPS recommended
Cooling	Silent operation essential (< 30dB)
Control	Integration with home automation
Calibration	ISF/THX calibration for cinema grade
Service	Front-service essential (flush wall mount)
Support	Local service contract for residential

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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