

UEFA CHAMPIONS LEAGUE CRITERIA FOR LED PERIMETER SYSTEMS

MECHANICAL

- Display Screen height:
 - Min (and ideal) 90cm, Max 96cm
- Total length:
 - Minimum length 246m, ideal length 257m
- Pixel pitch:
 - Minimum level: 16mm x 16mm real, ideal pitch of 12.5mm x 12.5mm (real)
- LED configuration:
 - 3-in-1 SMD
- Closed corner set-up
- System will allow access/emergency exit safety gates where necessary to comply with Local stadium regulations without interruption of signal
- Black non glare finish to face plate and cabinet.
- Weather protection to IP65 (front) and IP54 (rear) standards
- Mechanical connectors to align the system
- Rubber louvers and rubber padding (impact protection) to protect players from injury on the top and the face of each module
- No foot stand with rear angled support to avoid disruption to photographers
- Adjustable legs for height from floor (max 50mm) with rubber protection and no gap between the system and the ground.
- What are the module dimensions, Height, length and depth

OPTICAL

- Refresh rate:
 - Minimum 2800 Hz
- Luminance:
 - Minimum 5500 Nit
- Vertical Viewing angle:
 - Minimum 60o
- Horizontal viewing angle:
 - Minimum 140o
- Pixel by pixel fine tuning possible on-site; system viewed as one single screen;
- Quick changeable modules; at least 2 spare cabinets with location freely configurable.
- Systems pre-calibrated to white

ELECTRICAL

- European voltage system; EMC protection to EU standards; CE, ROHS, EN, TÜV certified;
- External controller software overlay possible with data redundancy;
- Control signal connection via two redundant feed points; data ring loop configured;
- System back to full power in case of pitch power loss in less than 25 seconds;
- Weather protection to IP 65 (front) and IP 54 (back);
- European Voltage system (220-240v/380-415v, 50hz)
- Quick changeable power supplies installed within each LED module
- CEE standard power connectors for 400v, alternative Cam lock connectors in main power distribution
- Amphenol or Neutrik connectors IP67 for 240v (Schuko or other standard connectors not permitted)
- Heavy high flex rubber cabling for outdoor use
- All exposed cabling must be protected by yellow jacket cable protectors
- Power loss must be limited to one panel, not tolerable to affect other panels
- Only 1 breaker (16A or less) including 1 RCD 33mA per panel.
- Adjustable RCD 300mA on final 125A/63A circuits 3P+N
- System must not have power distribution boxes up against the rear of the LED system; such boxes should be set back from the systems so as not to be in the way of either system maintenance or photographers/TV camera positions.
- System must avoid the bare laying of power or data cables on the ground behind the system.

CONTENT CONTROL

- Individual control of brightness, gamma, colours of every single pixel, panel and module
- Auto switch feature installed and enable, set to static shared rotation in case of total connection data loss.
- Default graphics storable in panels in case of total data connection loss with server.
- System viewed and operated as one single screen by control software
- Remote data monitoring and analysis
- GPI trigger option for special function signalisation.

DATA INTERFACING

- Control signal connection via 2 redundant feeding points
- Data ring loop configured; if one connection fails then the data source automatically switches to the opposite section
- Module or panel change time of less than 1 minute without affecting the running of the system (hot-swappable)

- Signal server on UPS
- Neutrik Ethercon Data connectors or similar adequate brands with RJ45, IP65 protection rate
- In the event of panel change the current data, colours, brightness information must be stored in the panels
- Fibre optic data cabling from dedicated controller locations to the 2 return side corners
- Neutrik opticalCON single mode fibre optic cabling (IP65 rated)