Outdoor LED Screen Weatherproofing Checklist

Water is the biggest enemy of outdoor screens. A single open cable entry or blocked drain hole can damage modules, power supplies and receiving cards. Use this list at installation and again before every monsoon.

When to use: At installation, and every year before the monsoon.

PROJECT / CUSTOMER _____ SITE _____

DATE _____ CHECKED BY _____

Modules and cabinets

- ☐ Modules are rated for outdoor use, with the IP rating of the front and rear checked on the datasheet
- ☐ Cabinet rated for outdoor use, with door and module gaskets in place and not damaged
- ☐ All module screws or locks fully tightened so gaskets seal evenly
- ☐ Gaps between cabinets sealed as per the cabinet maker's method
- ☐ Top of the screen covered by a flashing or rain cap where required

Cable entries and connections

- ☐ Every cable enters through a correctly sized waterproof gland
- ☐ Unused gland holes closed with blanking plugs
- ☐ Cables enter from below with a drip loop, so water runs off before the gland
- ☐ Outdoor-rated connectors used for power and data between cabinets
- ☐ Joints outside cabinets protected in waterproof junction boxes

Drainage, heat and ventilation

- ☐ Drain holes at the bottom of cabinets open and not blocked by the structure
- ☐ Ventilation fans and filters working and clean
- ☐ Hot air has a path out, especially for screens mounted against walls
- ☐ Structure painted or galvanised, and rust spots treated

Lightning and surge

- ☐ Structure earthed, with lightning protection considered for tall or exposed screens
- ☐ Surge protection device fitted on the mains supply
- ☐ Surge protection considered on long outdoor data cable runs

Pre-monsoon check

- ☐ Gaskets, glands and seals inspected for cracks or shrinkage
- ☐ Signs of water inside cabinets checked: rust, white marks, damp

- [ ] Loose modules or screws tightened
- [ ] Spare modules and power supplies of the same batch kept in stock

Notes

Signature

Date

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