LED Screen First Power-On and Commissioning Checklist

The first power-on is when wiring mistakes cause the most damage. Power up in stages, test before loading content, and record the settings so the screen can be restored later.

When to use: When a new or rebuilt screen is powered on for the first time.

PROJECT / CUSTOMER _____ SITE _____

DATE _____ CHECKED BY _____

Before power-on

- [ ] Earthing and electrical safety checklist completed
- [ ] Power supply output voltage checked against the module datasheet before connecting modules
- [ ] Polarity of every DC power cable to the modules checked
- [ ] Data cable direction checked: data flows in the planned order from cabinet to cabinet
- [ ] All modules seated correctly with no bent pins on the connectors

Power-on in stages

- [ ] Power on one section or cabinet first, then the rest
- [ ] Smell, smoke, sound and heat checked on power supplies and modules
- [ ] DC voltage at the far end of the module chain measured under load
- [ ] Supply current measured with a full-white test pattern

Control system setup

- [ ] Sending card or processor firmware and software versions noted
- [ ] Receiving card configuration file loaded for the exact module model
- [ ] Cabinet connection map set in the software and checked against the real layout
- [ ] Brightness, refresh rate and gamma set to suit the site
- [ ] Configuration file saved to the receiving cards and a backup copy kept

Test patterns

- [ ] Full red, green, blue, white and black shown: no dead modules, lines or colour blocks
- [ ] Grey levels and gradient shown: no visible steps or flicker
- [ ] Moving test pattern shown: no tearing or misaligned cabinets
- [ ] Screen checked through a phone camera for scan lines, if it will be filmed
- [ ] Seams between cabinets checked for gaps or bright lines

Handover

- [ ] Customer shown how to switch on, switch off and change content
- [ ] Software, passwords and backup configuration handed over
- [ ] Spare parts list and warranty details given
- [ ] Maintenance schedule explained

Notes

Signature

Date

Free to use, print and share. These checklists are shared only to help the LED screen trade: no charge, no sign-up, nothing to buy. They are general guidance, not professional or engineering advice. Always follow the manufacturer's datasheets and instructions, local electrical rules and the advice of a qualified electrician or engineer. MG TechLink accepts no responsibility or liability for any loss, damage or injury arising from their use.

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