



Installation Guide And Manual

Mounting, power injection, addressing and commissioning for pixel, linear, wall washer, spotlight and control products.

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LED Pixel Light

Fix the string to steel wire or aluminium profile, keep point spacing under the recommended maximum, then address the line from the sub controller. Power is injected at intervals so the last point holds the same brightness as the first.

1. LED and driver IC placement on the pixel board
2. Shell moulding in flame retardant PC
3. Full potting with high thermal conductivity PU glue
4. Cable crimping and buckle assembly into strings
5. Ageing test, addressing test and colour check before packing

LED Linear Light

Mount the bar into the mullion or on the supplied bracket, join runs end to end for a continuous line, hide the cable inside the curtain wall cavity and dim or colour change over DMX512.

1. Aluminium extrusion cut to the ordered length
2. Anodising and colour finishing
3. Board assembly and lens or diffuser fitting
4. End cap sealing and cable exit moulding
5. Waterproof test, colour test and continuous splicing check

LED Wall Washer

Set the bracket angle to graze the surface rather than point at the viewer, keep the fixture at the recommended offset from the wall, and fit the supplied shield where glare could reach windows or walkways.

1. 6063 aluminium extrusion and machining
2. Surface spraying or anodising
3. LED board and lens assembly
4. Glass cover and end cap sealing
5. Waterproof, ageing and beam angle verification

LED Spotlight And Flood Light

Choose the lens angle from the mounting distance and target height, aim with the adjustable bracket, then lock the bracket. Use a narrow beam for tall buildings and a wide beam for planting and low walls.

1. Aluminium body machining
2. Lens selection and optical assembly
3. Driver fitting and wiring
4. Tempered glass and gasket sealing
5. IP test, aiming test and colour consistency check

LED Control System

Connect the master controller to the sub controllers with CAT5, keep each section under the stated distance, then assign ports and addresses. Store the programme on the SD card so the system plays offline on schedule.

1. PCB assembly of the controller board
2. Firmware loading and port testing
3. Enclosure assembly and labelling
4. Cascade test across multiple controllers
5. Load test with the lamp types used on the project

Control Distance Limits

- Master to sub controller and sub to sub run on CAT5 twisted pair, each section under 120 metres.
- Sub controller to signal adaptor stays under 120 metres.
- Signal adaptor to the first pixel light stays within 2 metres.
- TTL sub controller carries 512 RGB pixels per port, DMX sub controller carries 170 RGB pixels per port.
- Maximum point spacing should not exceed 2.5 metres. Each intermediate power supply supports about 6 metres left and right.