



MK-C6W2 light engine with fibre optic fibre bundle

User manual



Features:

- Complete star kit for small-scale projects with light engine, remote controller, 200 fibre bundle
- RGB light engine
- Touch remote with colour wheel
- Small size

Technical specification

| | |
|---|--|
| Light engine model | MK-C6W2 RGB K |
| Programmes | 11 programs, brightness (static mode) speed (dynamic mode), on/off |
| Remote controller | Yes, RF |
| Light source type | RGB LED chip |
| CRI (Ra>): | 70 |
| IP rating | IP20 |
| Light colour mode | RGB |
| Working voltage | DC12V |
| Rated power | 6 W (Red: 2W, Green: 2W, Blue: 2W) |
| Material of housing | Aluminium |
| Light engine dimensions | 135 mm (L) x 36 mm (W) x 36 mm (H) |
| Net weight | 0.3 kg |
| Remote control dimensions | 113.5 mm x 55.5 mm x 22.5 mm |
| Fibre optic port diameter | 10-14 mm |
| Fibre optic bundle: | 200 fibres: 160 x 0.75 mm, 40 x 1.0 mm at 2 m length |
| Lifetime | 50,000 hours |
| Warranty | 2 years |
| Package dimensions (excluding fibre optic bundle) | 200 mm (L) x 170 mm (W) x 90 mm (H) |
| Weight with packaging | 0.7 kg |



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Safety notices

Electrical work safety advice and tips

- Make sure the input voltage is correct.
- Avoid placing the light engine in the rain or in moist areas. Please ensure that the light engine has sufficient ventilation and is not placed in a completely sealed area.
- Do not open the LED light engine for inspection or re-wire the electronic circuits if you are not a professional. Opening the light engine might void your warranty.
- Avoid any debris on top or around the light engine as it can cause poor heat dissipation.
- Avoid using the device above 40 C temperature.

DIY tips and safety advice

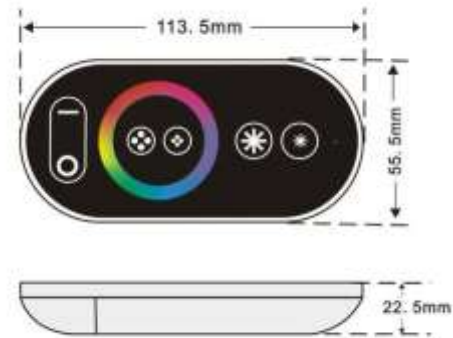
- This task will involve working at height. A safe system of work should be established and maintained, in order to prevent injury.
- Consider your safety! Think about the potential risks and dangers of the work and the steps you should take to avoid them.
- Personal protective equipment. Make sure that you are equipped with suitable and sufficient personal protective equipment. This could include eye protection, face mask, protective overalls, safety footwear and gloves.
- Ensure that the work area is sufficiently illuminated.
- Check that the tools you will be working with are in a good operating condition. For the installation, you will need a cordless drill, epoxy glue, side cutters or scissors and drill bits.



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Light engine and remote controller dimensions

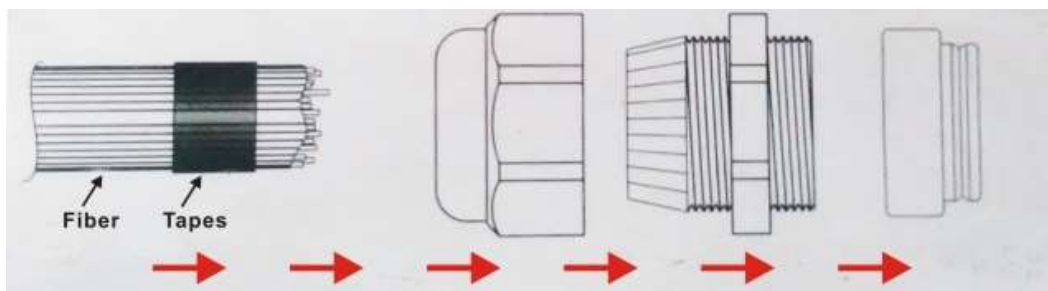


Connection method between optical fibres and the light engine



Your fibre optic bundle will come with the connector fittings ready to connect to the light engine. However, if you need to adjust your bundle or you're making your own, follow the steps below.

1. Align all the optical fibre ends and fasten with tapes which can resist temperature over 130°C
2. Pass the fibres through the connector and fasten the rotary tensioner until the fibres are tightened.



3. Cut the fibre bundle to a flat surface with a heat-knife or blade.



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4. Make sure that the optical fibre bundle head is smooth and clean to ensure even light distribution.
5. Place the fibre optic bundle's connector into the light engine's port connector. Fasten the bundle with the screw on the top of the light engine's port connector.

Programming the light engine

Remote control operation



| Symbol | Function |
|--------|--|
| | Turn off/on the LED light in any state. |
| | Touch for selecting 18 change modes before and after. |
| | Touch the color on the wheel to get what you want. |
| | Static modes for Brightness increasing or decreasing. Dynamic modes for speed accelerating or decelerating. |

The remote controller works with 3 x AAA batteries. Batteries are not included.

Remote control programs

| NO. | MODE | REMARK | NO. | mode | remark |
|-----|------------------------------|----------------|-----|---------------|-----------------|
| 1 | Seven colour fade in and out | speed adjusted | 5 | Static red | bright adjusted |
| 2 | RGB fade in and out | | 6 | Static green | |
| 3 | Seven colour jump | | 7 | Static blue | |
| 4 | RGB jump | | 8 | Static yellow | |
| | | | 9 | Static purple | |
| | | | 10 | Static cyan | |
| | | | 11 | Static white | |



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Pairing the remote controller

Pairing

The remote controller is normally paired with the light engine, so you don't have to do this when you receive the light engine. However, in some cases the remote controller can unpair from the light engine. In these scenarios, follow these steps:

Press the “brightness - ” button once, within 3 seconds of switching the light engine on. The light will blink 3 times to indicate that the remote control is paired.

Unpairing

Press the “brightness + ” button once within 3 seconds of switching the light engine on. The light will blink 6 times if unpairing was successful.

Troubleshooting for remote controller connection issues:

- Make sure that the remote controller is switched on by pressing the “On” button
- Check if the battery is operational in the remote controller: Press a button on the remote and the indicator light should flash up. If the light doesn't flash up, it means that there is either no battery in the remote or the battery needs replacing.
- If the remote's control light flashes up, check whether the green indicator light on the back of the light engine flashes up, when a button is pressed on the remote. If the indicator light is not flashing up, the remote controller might be unpaired from the light engine. To pair the devices, press the “brightness - ” button once, within 3 seconds of switching the light engine on. The light will blink 3 times to indicate that the remote control is paired.
- If the indicator light on the light engine still doesn't flash up when pressing a button on the remote controller, restart the device and test again.
- If you're still experiencing issues, contact your supplier.