



MK-S16 RGBW-T / MK-S20 RGBW-T

User manual

MK-S16 RGBW-T



MK-S20 RGBW-T



Model	MK-S16 RGBW-T	MK-S20 RGBW-T
Programs	Speed, brightness, 20 colour changing programs, music sync mode, twinkling wheel speed, on/off	
Remote controller	Yes, RF remote and Bluetooth app (RF remote dimensions: 105 mm x 58 mm x 9 mm)	
Light source type	RGBW LED	
CRI (Ra>):	70	
IP rating	IP20	
Working voltage	DC 12 V	
Power	16 W	20 W
Material of housing	Aluminium	
Light engine dimensions	84 mm (L) x 84 mm (W) x 42 mm (H)	91 mm (L) x 87 mm (W) x 64 mm (H)
Net weight	0.24 kg	0.32 kg
Fibre optic port diameter	20 mm	2 x 20 mm
Maximum number of fibre optic bundles at 0.75 mm diameter	550	2 x 550
Lifetime	50,000 hours	
Warranty	2 years	
Package dimensions (excluding fibre optic bundle)	190 mm (L) x 123 mm (W) x 56 mm (H)	220 mm (L) x 157 mm (W) x 86 mm (H)
Weight with packaging	0.4 kg	0.5 kg



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.*

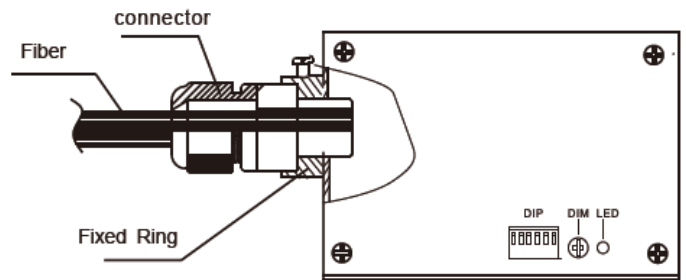
DIY tips and safety advice

- *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.*



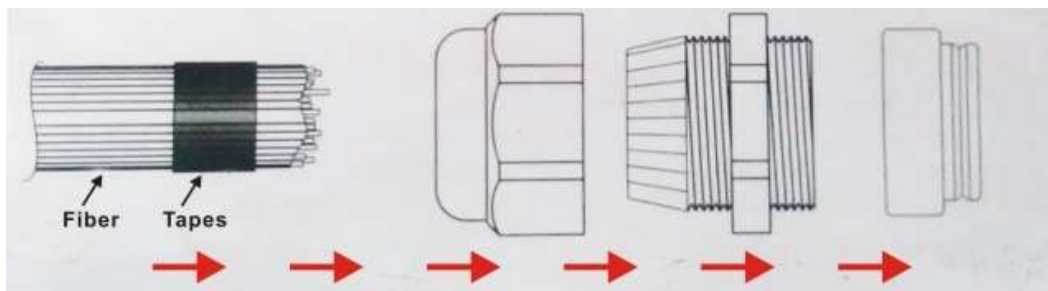
Connection method between optical fibres and the light engine

Your fibre optic bundle will come with the connector fittings ready to connect to the light engine.



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.



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.



MK-S16 RGBW-T / MK-S20 RGBW-T

User manual

Remote controller operation (MK-S16 RGBW-T)

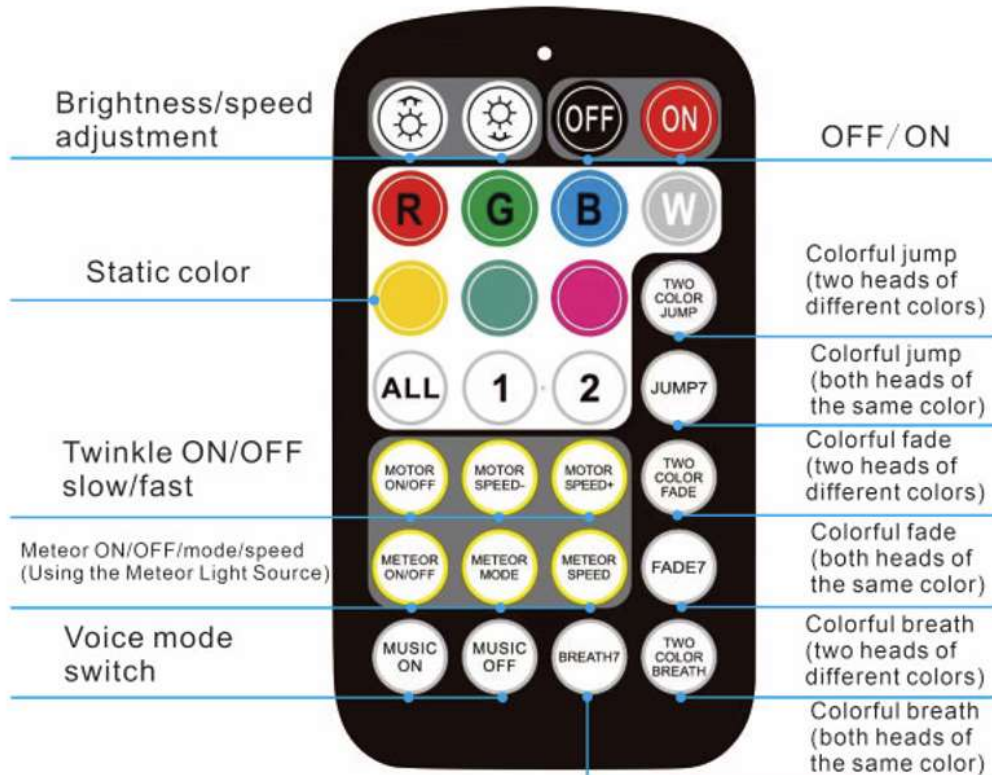


CR2025 button battery
(not included)

Notes: The device can be controlled by the RF remote and the Bluetooth App at the same time.



Remote controller operation (MK-S20 RGBW-T)



Notes: The device can be controlled by the RF remote and the Bluetooth App at the same time.

Dual-port independent control:

1. Control both ports at the same time:
 - Press the **"All"** button
 - Press the preferred mode: a static colour or a dynamic mode
2. Independent control for both ports on static colour
 - Press button **"1"**
 - Press the static colour of your preference
 - Press button **"2"**
 - Choose the static colour of your preference
3. One port static, one port dynamic (static colour needs to be selected first)
 - Press button **"1"**
 - Press the static colour of your preference
 - Press button **"2"**
 - Press the dynamic mode of your choice



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, restart the device and test again. If the indicator light still doesn't flash up, try re-pairing the remote controller with the light engine. If the pairing didn't work, please contact your supplier.*



Bluetooth App control guide

1. Download the Bluetooth App

Option 1: QR code:



- Both Android and Apple phones can scan the QR code to download the app

Option 2: App store:



- For Apple system: go to the App Store and search for “My smartLED” to download the App
- For Android system: go to the Google Play Store and search for “My SmartLed” to download the App

2. Connect your Bluetooth device with the app

- a. Turn on Bluetooth on your mobile phone
- b. Power on the light engine
- c. Open the App on your mobile phone
- d. The App will automatically connect to light engine

Important notes

- Do not connect your mobile phone manually to the light engine in your mobile phone’s Bluetooth settings
- One mobile phone can connect to and control multiple light engines, but one light engine can only be connected to and controlled by one mobile phone at a time



3. Operation and modes

Static mode	Dynamic mode
 <p>Labels for Static mode:</p> <ul style="list-style-type: none">Device managementSetupColour wheelAdjust brightnessCommon coloursCustom colours	 <p>Labels for Dynamic mode:</p> <ul style="list-style-type: none">Mode selectionSpeed adjustmentBrightness adjustment
Sound control mode	Twinkle mode
 <p>Labels for Sound control mode:</p> <ul style="list-style-type: none">Mode selectionSound sensitivity adjustmentBrightness adjustment	 <p>Labels for Twinkle mode:</p> <ul style="list-style-type: none">Twinkle speedTwinkle switch

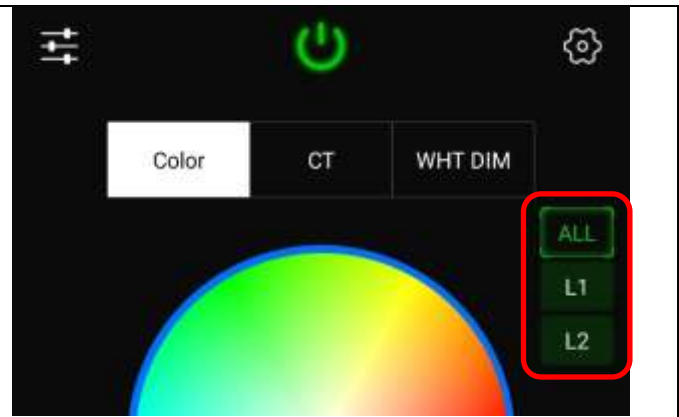


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User manual

The MK-S20 RGBW-T light engine supports dual port control.

- Select “ALL” to control both ports together
- Select “L1” to control port 1
- Select “L2” to control port 2



Bluetooth connection settings





4. Troubleshooting for Bluetooth connection issues

- Check that the light engine is powered on.
- Check that the Bluetooth is turned on the mobile device.
- Check if another mobile phone is already connected to the light engine. If another mobile phone is already connected to the light engine, disconnect it first.
- If necessary, reconnect the mobile phone with the light engine: (1) exit the App, (2) turn off Bluetooth on the mobile phone, (3) turn on Bluetooth on the mobile phone, (4) Re-open the App. The App should automatically connect to the light engine.



Compliance notes

United Kingdom

Waste Electrical and Electronic Equipment Regulations 2013

The waste electrical and electronic equipment regulations in the UK promote the purpose of recycling, recovering and reuse of products and components, thereby, intending to reduce the amount of electrical and electronic waste from being disposed off at landfill sites.

The WEEE logo on the box or on the product signifies the collection and the intent of recycling the product, as shown in the logo below.

For disposing of the electrical and electronic equipment, please contact your local waste disposal services for correct disposal.

Regulations on restriction of Hazardous substances

The product complies with the requirements of the restriction of the use of certain hazardous substances in electrical and electronic equipment regulation 2012.

European Union

Waste Electrical and Electronic Equipment

The directive of waster electrical and electronic equipment serves for the purpose of promoting the recycling, reuse and other means of recovery or restoration of such waste so as to reduce the disposal. The product or packaging of the product marked with the WEEE logo indicating the collection of electrical and electronic equipment has the logo as shown below.

The symbol indicates to not dispose this product into the normal household waste. Instead, the product shall be disposed of properly at the designated collection points. For more information, please contact your local waste disposal services.

RoHS compliance

The product is in compliance with the RoHS directive 2011/65/EU where the restriction of use of hazardous substances has been adhered to.



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*If you have any questions or comments regarding our products,
please contact us on*

info@stellarlighting.co.uk



LED fibre optic illuminator	Model number: MK-S16 RGBW-T		LED fibre optic illuminator	Model number: MK-S20 RGBW-T	
Input: 12 V DC 1.17 A	Power: 14 W		Input: 12 V DC 1.67 A	Power: 20 W	
Stellar Lighting Ltd. Address: 128 City Road, London, EC1V 2NX, UK www.stellarlighting.co.uk/contact Made in China			Stellar Lighting Ltd. Address: 128 City Road, London, EC1V 2NX, UK www.stellarlighting.co.uk/contact Made in China		