Starscape — Fibre Optic & LED Lighting

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MaxiLED series (RGBW & 40)

	MaxiLEDRGBW	MaxiLED40
Input voltage	240vac via UK 3 pin plug	240vac via UK 3 pin plug
LED	4 x 9 watt	1 x 40 watt cool white 6000k
Dimensions	270 x 264 x 135 mm	270 x 264 x 135 mm
Weight	5.600 kgs	5.600 kgs
Power consumption	41 watts	43 watts
Twinkle wheel	Yes	Yes
Dimming bitrate	8 bit	8 bit
Colour wheel	No - colour change is by RGBW LEDs	Yes
Optical port int. diameter	34mm	34mm
Fibre capacity	1080 x 0.75 mm	1080 x 0.75 mm
Cooling fan	None	None
Heat radiation	Warm to touch	Warm to touch
Warranty	18 months	18 months
Country of manufacture	China	China
Manufacturer accreditation	ISO 9001	ISO 9001
Starscape stock item	Yes	Yes
Code	MaxiLEDRGBW	MaxiLED40
Maintenance	Vacuum ventilation openings if dusty	Vacuum ventilation openings if dusty
Location	Dry well ventilated space	Dry well ventilated space

Front Panel Display

Pressing the UP and DOWN buttons together will allow the user to cycle through a series of options. The order of these and their display style is as follows:

DMX Address	Program Selection	Program Speed	Twinkle Speed	Brightness Level	Remote ON/OFF
001	P.14	S.03	SS.4	d.99.	r.on

Selection	Range	Function
DMX Address	001-505	Selection of DMX address from 001-505.
Program Selection	P.00-PS.2	Selection of one of 13 (Maxi40) or 23 (MaxiRGBW) preset programs
Program Speed	S.00-S.07	Select colour change speed within a program (8 settings)
Twinkle Speed	SS.0-SS.7	Rotation speed for the twinkle wheel (0/1/2/3/4/5/8/12 RPM)
Brightness	d.00-d.99	Brightness: 8 levels; 00/10/20/35/50/70/85/99 (99 is 100% brightness)
Remote Activation	r.on-roF	r.on = remote control active, r.oF = remote control not active

Light source settings

The MaxiLED series light sources have four different control options; Standalone mode, Wireless remote Control, DMX controlled and Master/Slave controlled.

Standalone mode

While in this mode the light source will run one of 13 (Maxi40) or 23 (MaxiRGBW) preset programs.

1. Press UP + DOWN and cycle through the display until *Pxx* is displayed.

2. Use UP and DOWN to select the desired program number (see below)

Maxi40 program list

PRG No.	Description	PRG No.	Description	PRG No.	Description
P.00	No Light	P.05	Blue	P.10	3 colour skip
P.01	White	P.06	Purple	P.11	7 colour fade
P.02	Red	P.07	6 colour skip	PS.1	7 colour skip & audio control
P.03	Green	P.08	5 colour skip	PS.2	6 colour skip & audio control
P.04	Yellow	P.09	6 colour fade		

MaxiRGBW program list

PRG No.	Description	PRG No.	Description	PRG No.	Description
P.00	No Light	P.08	7 colour skip	P.16	7 colour skip + chase
P.01	White	P.09	6 colour skip	P.17	6 colour skip + chase
P.02	Red	P.10	3 colour skip	P.18	3 colour skip + chase
P.03	Green	P.11	7 colour fade	P.19	7 colour fade + chase
P.04	Blue	P.12	6 colour fade	P.20	6 colour fade + chase
P.05	Purple	P.13	3 colour fade	P.21	3 colour fade + chase
P.06	Yellow	P.14	7 colour skip + fade	PS.1	7 colour skip & audio control
P.07	Sky Blue	P.15	6 colour skip + fade	PS.2	6 colour skip & audio control

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Wireless Remote Controller

The wireless remote is set as active by default. It can be deactivated by pressing UP/DOWN together and cycling through the options until *r.on* is displayed. Use the UP/DOWN buttons to select *r.oF* to deactivate the remote. The remote can be used to set the program (see below table for program numbering), twinkle and colour wheel speeds and brightness of the LED.
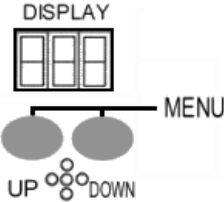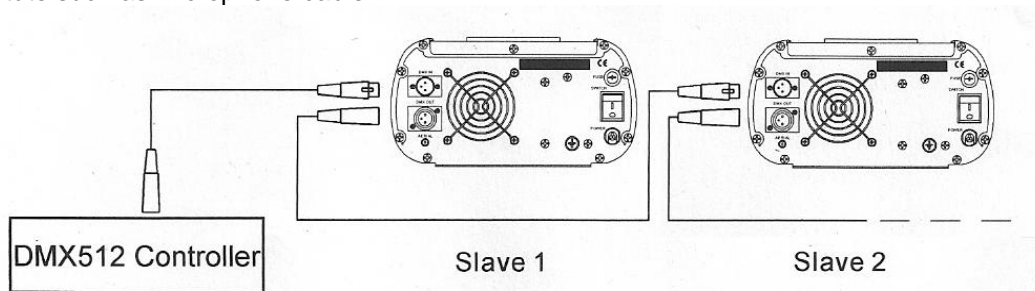
1. Programs; press "PRO", then "00"-"23" or use "▲" & "▼" (numerical entry must be double digits e.g. 03 not 3)
2. Brightness; press "DIM", then "0"-"7" or use "▲" & "▼"
3. Fade/Skip speed; press "SP", then "0"-"7" or use "▲" & "▼"
4. Twinkle wheel speed; press "9", then "0"-"7" or use "▲" & "▼"

The DMX address cannot be altered via the remote.

DMX 512 Signal Control Mode

In this mode the light source(s) are assigned a DMX512 address, and are controlled via external input from a DMX panel.

1. **Address setting:** Press the UP and DOWN buttons together until the display shows a number between 001 and 505 (usually 001). Then use UP or DOWN to select the specific address required. If left for a few seconds, the light source will 'lock' and power-down the display to prevent accidental address selection. To unlock, press UP and DOWN together once: address selection can then be resumed.

2. **DMX Connection between the light sources:** In order connect multiple light sources via DMX, chain the light sources together with DMX cables, ensuring that the DMX OUT from first light source is connected to the DMX IN of the second and so on. The DMX input is entered via the DMX IN port of the first light source.

3. **DMX Signal wires and connector:** The DMX cable should be a correctly wired dedicated DMX signal cable NOT a substitute such as microphone cable.

Master/Slave Mode

While in this mode one light source is designated the Master and all others are designated Slaves. The slave light sources will copy the program that the master is currently running. The program run by the Master light source can be selected using either the remote control or the front panel menu.

1. **Setting Master/Slave**
   MASTER: To designate a light source as Master press the UP and DOWN buttons together and cycle through the display until *Pxx* is displayed, then use UP and DOWN to select the program for the Master to run.

   SLAVE: To designate a light source as a slave set its DMX address to 001 (see above; **Address Settings**)

2. **DMX Connection between the light sources**
   The master and slaves are connected with DMX cables. Ensure that the DMX OUT from master is connected to the DMX IN of the first slave and then connect the slaves together via their DMX OUT/IN in the same way.

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Light source channel functions and 0-255 values

The following tables list the individual channel functions and their 0-255 DMX value ranges for use with a DMX controller.
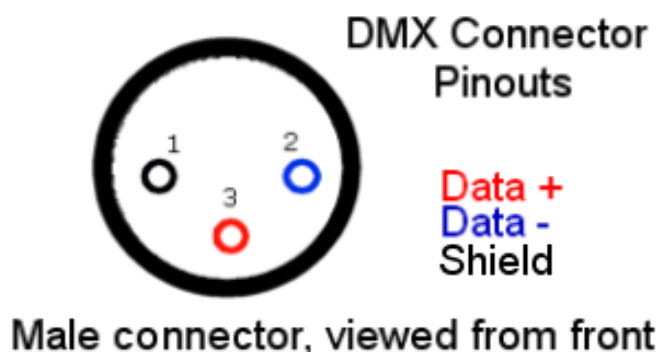
MaxiLED40

Channel	Function	DMX Value	Effect
1	Colour Wheel	0-23	White
		24-47	Red
		48-71	Green
		72-95	Yellow
		96-118	Blue
		119-135	Purple
		136-255	Rotate colour wheel; Fastest to Slowest
2	Colour Change Speed	0-255	Alters response speed of colour wheel; Fastest to Slowest
3	Twinkle Wheel	0-31	No twinkle
		32-255	Rotate twinkle wheel; Slowest to Fastest
4	Dimmer	0-255	0-100% Brightness
5	Strobe	0-255	No strobe
		32-255	Strobe; Fastest to Slowest

MaxiLEDRGBW

Channel	Channel	DMX Value	Effect
1	Red	0-255	OFF to 100% intensity
2	Green	0-255	OFF to 100% intensity
3	Blue	0-255	OFF to 100% intensity
4	White	0-255	OFF to 100% intensity
5	Response speed	0-255	alters speed of colour shift when using Ch.1-4, fastest to slowest
6	Master Dim	0-255	0 to 100% brightness
7	Strobe	0-255	OFF to 100% intensity
8	Twinkle Wheel	0-255	no twinkle to fastest twinkle

DMX wiring

120 ohm impedance DMX cable **MUST** be used for signal connection. **DO NOT** use Cat5 or mic/line level audio cable. When assembling a DMX XLR connector, the following wiring setup should be followed:

DMX Connector
Pinouts

1
2
3

Data +
Data -
Shield

Male connector, viewed from front

Installation and maintenance

The MaxiLED series of light sources rely on convection to keep cool so follow these guidelines when installing the lightsource in a dry well ventilated space

1)   Mount horizontally.
2)   Ensure a free flow of air around the source.
3)   Do not cover ventilation slots.

Maintenance: Inspect yearly and vacuum ventilation slots. In dusty environments inspect more regularly.