

## BH SERIES

### Outdoor DMX LED Light Bar

Item ref: 154.367UK – 154.377UK

User Manual



Model	Type	Stock Code
BH12M-25	IP65 wall washer 4 Red, 4 Green, 4 Blue LED - 25° beam	154.367UK
BH12M-45	IP65 wall washer 4 Red, 4 Green, 4 Blue LED - 45° beam	154.368UK
BH12M-60	IP65 wall washer 4 Red, 4 Green, 4 Blue LED - 60° beam	154.369UK
BH24M-25	IP65 wall washer 4 Red, 4 Green, 4 Blue LED - 25° beam	154.371UK
BH24M-45	IP65 wall washer 4 Red, 4 Green, 4 Blue LED - 45° beam	154.372UK
BH24M-60	IP65 wall washer 4 Red, 4 Green, 4 Blue LED - 60° beam	154.373UK
BH18T-25	IP65 wall washer 18 Tri-colour LED - 25° beam	154.375UK
BH18T-45	IP65 wall washer 18 Tri-colour LED - 45° beam	154.376UK
BH18T-60	IP65 wall washer 18 Tri-colour LED - 60° beam	154.377UK



Caution: Please read this manual carefully before operating  
Damage caused by misuse is not covered by the warranty

## Introduction

Thank you for choosing a BH series outdoor DMX LED bar as part of your architectural display. This product is designed to offer colour to walls and fascias with full internal or DMX control. Please read this manual in full to achieve the best results from your purchase.

## Unpacking

Your BH series LED bar should reach you in good condition. If there is any damage or parts missing from the packaging, contact your dealer immediately.

## Warning

The BH series outdoor LED bars are mains powered and should only be fitted by a qualified electrical installer. The unit is IP65 rated and all outdoor mains and DMX connections must be made waterproof to the level required for the environment. Methods of sealing may include outdoor junction boxes, silicone glue, heat-shrink tubing, hot melt tape and resin jointing kits.

## Safety

- Check for correct voltage and condition of mains lead before connecting to power outlet
- All mains connections must be made in accordance with appropriate safety regulations.
- Ensure that exposed cables are protected from UV (sunlight) with conduit or trunking.



**Warning: This unit must be earthed**

## SAFETY SYMBOL AND MESSAGE CONVENTIONS



CAUTION  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

AVIS  
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

## Placement

- The tilting mounting feet can be used to fix the LED bars to a wall or ceiling if required
- Ensure adequate access to controls and connections

## Cleaning

- Use a soft dry or lightly damp cloth to clean the housing and lenses. Do not use solvents

## Control panel & display



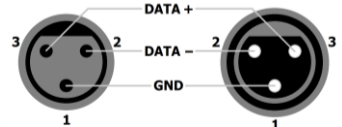
DIGIT Steps through the DMX address and internal programs  
 VALUE Steps upward through numbers 1 to 9

DMX address			Internal Program	
100s column	10s column	Units	Program 1-9	Parameter 1-9

## DMX Connection

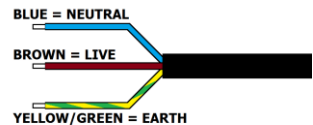
For operation from DMX512 control signal or master/slave linking, the BH series LED bars are fitted with a DMX input lead (male 3-pin) and a DMX output lead (female 3-pin). These are fitted with weatherproof connectors and are not standard XLR leads.

The wiring convention for these connectors is as shown opposite and can be used to connect one bar onto another or may be adapted to XLR connectors, which must then be waterproofed individually if sited outdoors.



## Setting up

With power off, connect mains to the unit as shown opposite. Ensure that outdoor mains connections are fully waterproofed and protected from sunlight UV with conduit or trunking. Power up the LED bar from the mains and the 3 digit display will show the current control status.



## DMX operation

Pressing the left button (digit) will step through the digits of the DMX address 100s, 10s, units. Pressing the right button (value) when the character is flashing will increment the number. The number value steps through from 0 to 9 and then cycles back to 0.

These 3 numbers represent the DMX start address and there are 3 DMX channels in total.

**Address** = RED 0-255 / **Address+1** = GREEN 0-255 / **Address+2** = BLUE 0-255

## Internal programs

Pressing the left button (digit) beyond the 3 DMX address digits will enter internal programs.

Internal programs are displayed as "P" followed by 2 numbers (1 to 9)

The first digit is the program type and the second digit is the parameter value, as follows.

P11-19	P21-29	P31-39	P41-49	P51-59	P61-69	P71-79	P81-89	P91-99
Red	Green	Yellow	Blue	Purple	Cyan	White	7 Jump	7 Scroll
2 <sup>nd</sup> digit = brightness							2 <sup>nd</sup> digit = interval	

Further bars connected by DMX will enter slave mode if all bars are set to DMX address 001.

## Specifications

Model	BH12M	BH24M	BH18T
Power supply	176-230Vac, 50/60Hz		
Housing material	Aluminium		
Housing colour	Black		
DMX connection	3 pin male + 3-pin female waterproof connector		
DMX channels	3		
Operating temperature	-20°C to +45°C		
IP rating	IP65		
LED lifespan	>35000 hours		
Total luminous flux	360lm	720lm	810lm
Luminous efficacy	24lm/W	26lm/W	27lm/W
Power consumption	15W	27W	30W
LED colour	Red, green, blue		Tri-colour (RGB)
LED quantity	12	24	18
LED power	1W		1.5W
Beam angle	25°/45°/60°	25°/45°/60°	25°/45°/60°
Projection distance	3 - 5m	9 - 12m	10 - 15m
Dimensions	500 x 118 x 78mm	1000 x 118 x 78mm	
Weight	2.5kg	3.9kg	

## Troubleshooting

No power (mains)	Check mains voltage is correct and outlet is switched on
	Check mains lead and fuse (if fuse continually blows, refer to your dealer)
No light output	Check DMX settings from controller (dimmer levels, blackout etc.)
Unresponsive to DMX or not operating correctly	Check DMX connection and leads
	Check that the DMX start address is set correctly
Master/slave not working	Check DMX connection is correct
	Check master and slave(s) are all set to DMX 001



**Disposal:** The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

*Errors and omissions excepted.  
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