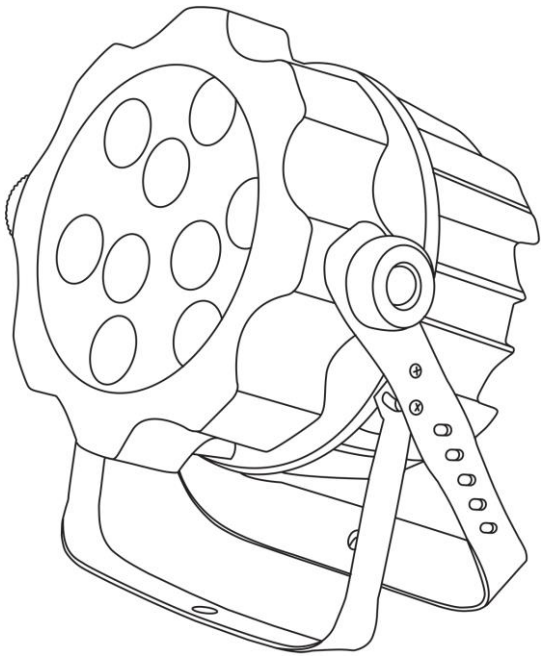
PD9H-25

COMPACT OUTDOOR DMX HEX-LED PAR48 CAN

Item ref: 154.321UK

User Manual

Thank you for choosing this outdoor PAR Can. Weatherproof LED lighting PAR48 can in an aluminium housing with adjustable stand bracket. Full colour mixing can be accessed through stand-alone control or via DMX512 input. Built-in 6-in-1 HEX LEDs are capable of displaying red, green, blue, white, amber and UV. These LEDs allow for richer and warmer colour blending. A versatile fixture for adding dynamic colour to indoor or outdoor areas.



Please read through this manual thoroughly before use, any damage cause by misuse of product will not be covered by warranty.

Please do not open cover, no user serviceable or repairable parts within. Opened unit WILL void the IP65 rate and makes the unit unsuitable for outdoor installation, please refer unit to licensed electrician in event of product failure.

Installation:

This PAR can is powered by mains, therefore installation should be carried out certified electrician only. Before installation, always ensure the mains is switched OFF at the consumer unit and the fuse block should be removed on the circuitry that you are working on to ensure the mains will not be accidentally switched back on while working.

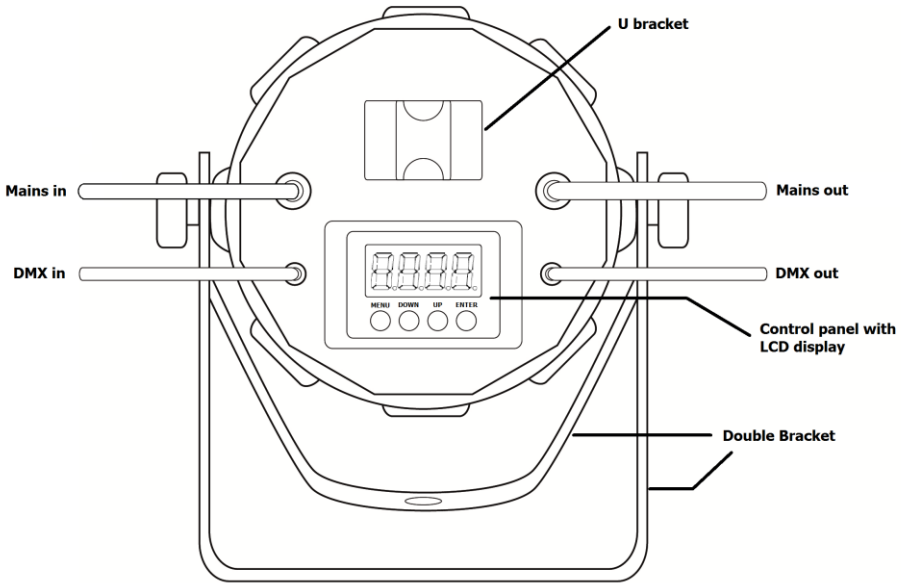
This PAR can is supplied with a double bracket for free standing on the floor or overhead mounting. There is also a fixed U bracket at the back for the unit to be mounting on a spade bracket.

IP65 rating applies to the unit only. For the wiring connection, we recommend to use waterproof junction box and gland or waterproof resin jointing kit for full IP65 protection. Below table shows wire colour and connection, please ensure all connections are made correctly.

Wire colour reference:

Colour	**Carry**
Brown	Mains – live
Blue	Mains – neutral
Yellow/Green	Mains – earth
Red	DMX – dmx+ signal
White	DMX – dmx- signal

Product layout:



Manual control menu:
Press the "menu" button to enter setting menu.
Press "up" and "down" to navigate through various setting options.
Press "enter" to enter desire setting.
Choose set value by "up" and "down" buttons and confirm setting by pressing "enter".

Display	Mode	Press ENTER for setting
Addr	DMX address	A001 to A512
chnd	Channel mode	Select DMX control through 2, 3, 4, 5, 6, 9 channels
SLnd	Slave mode	MASt = master, SLAu = slave
Shnd	Auto mode	Option of fade (colour scroll), jump, sound to light and 63 preset static colours.
SoUn	Sound activation	on= sound to light on, oFF = sound to light off
SEnS	Microphone sensitivity	0 - 100 (0-100% gain)
bALA	RGB colour mixing mode	Press up and down to set individual RBG dimmer to allow colour mixing.
LEd	LED display	on = stays on, oFF = turns off after 10 sec untouched
dISP	LED display inverted	dISP / dISP (normal or inverted display)
tESt	Fixture test sequence	Fixture steps through all functions – press MENU to exit
hoUr	Fixture hours	Displays how many hours of use for the fixture

Auto mode:
Enter auto mode menu by press enter on Shnd on the LCD display, 4 auto mode options are available as follows:

Fade (scroll) – press enter at FAdE to set unit to scroll through preset static colours. Options for scroll speed SP00 to SP99, dimming d000 to d255 and strobe S000 to S255 are available to adjust.

Jump – press enter at JUMP to set unit to jump through preset static colours. Options for jump speed SP00 to SP99, dimming d000 to d255 and strobe S000 to S255 are available to adjust.

Sound-to-light – press enter at SoUn to set unit to chase sound.

Static colour – there are 63 preset colours available to choose from. Press enter at CoLo, static colours are chosen through Co01 to Co63, dimming d000 to d255 and strobe S000 to S255 are available to adjust within the same menu.

Master/slave mode:
One or more PAR Cans can be synchronized to one master unit. Simply set the main control unit to master (MASt) on SLnd menu and the synchronizing units to slave (SLAu) on SLnd menu. Connect DMX out from the master unit to DMX in of the slave unit; further slave units can be controlled by daisy chain DMX out signal from the slave unit.

DMX mode:
This PAR Can will enter DMX mode automatically when DMX signals are detected, ensure the DMX initial address is set so that it's function can be controlled correctly. DMX initial address can be set under Addr menu, simply press enter to enter and up/down for address value and enter again to confirm.

This PAR Can can be controlled by 2/3/4/5/6/9 DMX channel modes, different DMX control modes can be set via the CHnL menu.

2CH – 2 channels

Channel	Value	Function
Channel 1	000 - 255	Master dimmer 0-100%
Channel 2	000 - 255	Static colour selection

3CH1 – 3 channels Op1

Channel	Value	Function
Channel 1	000 - 255	Red dimmer 0-100%
Channel 2	000 - 255	Green dimmer 0-100%
Channel 3	000 - 255	Blue dimmer 0-100%

3CH2 – 3 channels Op2

Channel	Value	Function
Channel 1	000 - 255	Master dimmer 0-100%
Channel 2	000 - 255	Strobe
Channel 3	000 - 004	Black out
	005 - 080	Static colour selection
	081 - 150	Colour jump, speed increase with value
	151 - 220	Colour scroll, speed increase with value
	221 - 255	Sound to light chase

4CH – 4 channels

Channel	Value	Function
Channel 1	000 - 255	Red dimmer 0-100%
Channel 2	000 - 255	Green dimmer 0-100%
Channel 3	000 - 255	Blue dimmer 0-100%
Channel 4	000 - 255	White dimmer 0-100%

5CH – 5 channels

Channel	Value	Function
Channel 1	000 - 255	Red dimmer 0-100%
Channel 2	000 - 255	Green dimmer 0-100%
Channel 3	000 - 255	Blue dimmer 0-100%
Channel 4	000 - 255	White dimmer 0-100%
Channel 5	000 - 255	Amber dimmer 0-100%

6CH – 6 channels

Channel	Value	Function
Channel 1	000 - 255	Red dimmer 0-100%
Channel 2	000 - 255	Green dimmer 0-100%
Channel 3	000 - 255	Blue dimmer 0-100%
Channel 4	000 - 255	White dimmer 0-100%
Channel 5	000 - 255	Amber dimmer 0-100%
Channel 6	000 - 255	UV dimmer 0-100%

9CH – 9 channels

Channel	Value	Function
Channel 1	000 - 255	Master dimmer 0-100%
Channel 2	000 - 255	Strobe, speed 0-100%
Channel 3	000 - 255	Red dimmer 0-100%
Channel 4	000 - 255	Green dimmer 0-100%
Channel 5	000 - 255	Blue dimmer 0-100%
Channel 6	000 - 255	White dimmer 0-100%
Channel 7	000 - 255	Amber dimmer 0-100%
Channel 8	000 - 255	UV dimmer 0-100%
Channel 9	000 - 004	N/A
	005 - 080	Static colour selection
	081 - 150	Colour jump, speed increase with value
	151 - 220	Colour scroll, speed increase with value
	221 - 255	Sound to light chase

Specifications:

Power	100-240Vac, 50/60Hz	DMX channels	2, 3, 4, 5, 6, 9
Fuse	F3A	LED lifespan	50,000 hours
Total luminous flux	3982lm	Operating temp	-20°C to +45°C
Luminous efficacy	23.5lm/W	Luminance : red	1300Lux @1m
Power consumption	169W	Luminance : green	2100Lux @1m
LED qty	9	Luminance : blue	2200Lux @1m
LED power	18W	Luminance : white	3200Lux @1m
LED colour	6-in-1 HEX (red, green, blue, UV, amber & white)	Luminance : amber	1100Lux @1m
Beam angle	25º	Luminance : UV	1000Lux @1m
Housing material	Aluminium	Luminance : full on	8300Lux @1m
Projection distance	10m	IP rating	IP65
Housing colour	Black	Dimensions	235 x 265 x 210mm
DMX connection	Red: DMX+, White: DMX-, Braid: ground	Weight	4.3kg

Troubleshooting:

No power (mains)	Check mains wiring is correctly to mains in connection
	Check mains outlet and consumer unit is switched on
No LED display	Press any control panel button and check LED setting in menu
No light output	Check control panel mode settings ensure dimming is not set to minimum
	Check DMX settings from controller (dimmer levels, blackout etc.)
No strobe output	Check strobe settings on control panel or from DMX controller
Unresponsive to DMX	Check DMX connection/joints to ensure dmx + and – not shorted and ground is continuous to eliminate interference
	Check that DMX mode is enabled (set "Addr" on control panel)
	Check dmx lead and connector is in good workable condition
Overheating/ cutting out	Ensure that the unit is not too close to a heat source
	Ensure that adequate airflow is afforded for cooling
	Ensure alien object and dirt is not built up between heat sink fins

This 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.