LED NEUTRON II

Centre-piece Light Effect

Item ref: 151.579UK

User Manual

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

Introduction

Thank you for choosing the LED Neutron II centre-piece light as part of your effect lighting setup. This unit has been designed to provide wide angle, dynamic beam effects for dance floors and live shows. Please read the following instructions for best results.

Unpacking

Your LED Neutron II should reach you in good condition, supplied with appropriate mains lead(s) and mounting bracket. If there is any damage or items missing from the packaging, contact your dealer immediately.

Warning

To prevent risk of fire or electric shock, do not expose any components to rain or moisture.
If liquids are spilled on the housing, disconnect mains, allow unit to dry out and have the unit checked by qualified personnel before further use.
No user serviceable parts inside – do not open – refer all servicing to qualified personnel.

Safety

- Check for correct voltage and condition of IEC lead before connecting to power outlet
- Ensure DMX leads are in good condition with no short connections or damaged plugs

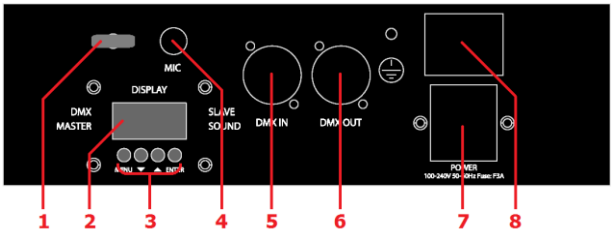
Placement

- The LED Neutron II is fitted with 4 feet for handling purposes to protect the mirrors
- If mounted at height, use the integral bracket and attach a drop cable for safety
- Ensure adequate air-flow to the housing for cooling
- Ensure adequate access to controls and connections

Cleaning

- Use a soft dry or slightly damp to clean the cabinet and lenses. Do not use solvents

Connections and controls



1. Safety cable eyebolt
2. LED display
3. Control panel buttons
4. Internal microphone
5. DMX in (3-pin XLR)
6. DMX out (3-pin XLR)
7. Mains inlet (IEC) & fuse holder
8. Mains daisy-chain output (IEC)

Setting up

Install the LED NEUTRON II using the mounting bracket, ideally to a secure point on a ceiling or trussing.
Experiment with positioning and distance to get the best coverage for the area to be lighted.
For DMX or master/slave control, link DMX out (6) to DMX in (5) using good quality DMX leads.
Connect the LED NEUTRON II to the mains supply using the appropriate IEC lead (7)
A female IEC output can be used to daisy chain mains connection to other fixtures (8)

Control panel settings

The LED Neutron II can be operated in sound activated, DMX and master/slave modes.
Depending upon which mode of operation is required, it will be necessary to select options and settings via the control panel (3) and display (2). To set the operating mode, press MENU, then UP▲ or DOWN▼ through options, then ENTER to select an option. To exit the menu, press MENU and hold for 2 seconds.

Display	Mode	Press ENTER for setting
Addr	DMX address	A001 to A512
Chnd	DMX channel mode	7CH or 2CH (see appendix)
SLnd	Slave mode	MASt = master, SL 1 = slave 1, SL 2 = slave 2
SEnS	Microphone sensitivity	0 - 100 (0-100% gain)
SoUn	Sound activation	SoU1 = slow during silence, SoU2 = off during silence
Stro	Strobe mode	on / oFF (strobe LEDs on or off)
StbY	Standby mode - DMX	YES = fixture is off when no DMX signal is present
		no = sound activated when no DMX signal is present
LEd	LED display dimmer	oFF = display off after 20s on = constant display
dISP	LED display inverted	dISP / dSIP (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

Standalone and Master/Slave operation

The LED Neutron II can operate with sound activation by navigating to SoUn in the menu options and selecting from SoU1 or SoU2 as described above. For this to take effect, the Slave mode (SLnd) must be set to Master (MASt) and standby (StbY) set to off. To control further LED Neutron II fixtures from this master unit, connect an XLR lead from the DMX out of the master unit to the DMX in of the slave unit and set the slave unit to one of the two Slave modes (SL 1, SL 2) – whichever effect is preferred.

DMX operation

The LED Neutron II can operate from a DMX signal connected to the DMX in connector. This signal can be connected on to further units from the DMX OUT connector.
To operate via DMX, set the DMX start address in the Addr option on the control panel.
The standby option in the menu (StbY) offers a choice of sound-activation when no DMX signal is present.
There are 2 modes of DMX, which are selected via the Chnd option on the control panel.

The channel allocations for DMX operation are detailed below.

2-channel	Mode	Value	Function
Channel 1	Blackout	000-015	No LED output
	Auto	016-239	Pre-programmed sequence - slow to fast
	Sound	240-255	Sound activated operation
Channel 2	10mm LEDs	000-000	Blackout
		001-255	Strobe - slow to fast

7CH Mode	Mode	Value	Function
Channel 1	10mm LEDs	000-000	Blackout
		001-199	Dimmer 0-100%
		200-247	Strobe – slow to fast
		248-255	On full brightness
Channel 2	Red	000-255	Red brightness 0-100%
Channel 3	LED colour	000-009	Blackout
		010-255	Select RGBW colour mix
Channel 4	Effect	000-255	Select type of LED light effect
Channel 5	Speed	000-255	Speed of LED light effect
Channel 6	Mirror rotation	000-009	Stop
		010-120	Rotate clockwise – slow to fast
		121-134	Stop
		135-245	Rotate anti-clockwise – slow to fast
		246-255	Stop
Channel 7	Sound	000-127	Sound activation off
		128-255	Sound activation on

Specifications

Power supply	100-240Vac, 50/60Hz (IEC in/out)
Power consumption (Max)	60W
Fuse rating	F3A
LED type	4 x 10W quad CREE LED + 72 x 10mm white LED
Dimensions	350 x 335 x 170mm
DMX channels	7 or 2 channels
Weight	4.3kg
Laser & LED safety standard	BSEN60825-1 2007

Troubleshooting

No power (mains)	Check mains voltage is correct and outlet is switched on
	Check IEC lead and fuse (if fuse continually blows, refer to your dealer)
No LED display	Press any control panel button and check LED setting in menu
No light output	Check control panel mode settings (standby, slave, sensitivity, DMX)
	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 and leads
	Check that DMX mode is enabled (set "Addr" on control panel)
Overheating/ cutting out	Ensure that the unit is not too close to a heat source
	Ensure that adequate airflow is afforded for cooling

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.