

HADRON ECO

Item ref: 150.471UK

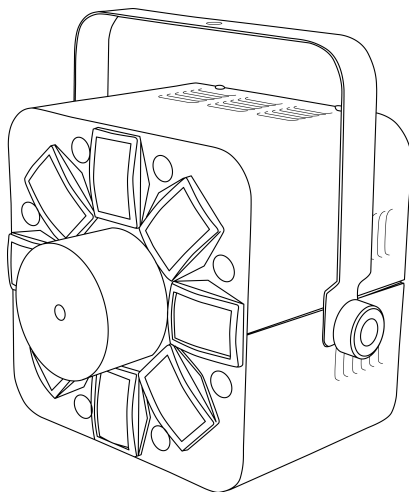
3-in-1 LED Light Effect

User Manual

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

A

fantastic 3-in-1 light effect combining an LED projector, strobe and laser in one compact unit. This brilliant effect covers a large area and can be operated by built-in auto or sound-to-light programs for an easy plug and play show. Multiple Hadron Eco effects can be connected together using the master/slave function with DMX to create a fantastic synchronised light show. A great all-in-one unit perfect for mobile DJs, performers or small nightclubs or venues.



- 5 single colour bright 3W LEDs in red, green, blue, white and amber produce the classic Derby effect
- 8 bright 1W white LEDs create strobe effect
- 70mW green and 100mW red lasers create firefly, firework and star cluster effects
- 9 preset auto programs for different effect combinations
- Auto, sound-to-light, DMX or master/slave controls
- 4 or 8 channel DMX control
- We recommend that this product is used within the guidelines HSG95

Specifications



| | | | |
|--------------|---------------------|-----------------------|-------------------|
| Power supply | 100-240Vac, 50/60Hz | Laser class | 3B |
| Power | 60W | Beam angle | 90° |
| Fuse rating | 3A | DMX channels | 4 or 8 |
| Effect LEDs | 5 x 3W (R,G,B,W,A) | DMX connection | XLRM in, XLR out |
| Strobe LEDs | 8 x 1W white | Dimensions | 295 x 225 x 285mm |
| Red laser | 100mW, 635nm | Weight | 4.5kg |
| Green laser | 70mW, 532nm | Laser safety standard | BSEN62471:2008 |

In the box

1 x HADRON ECO unit with bracket, 1 x UK IEC mains lead, 1 x wireless remote and 1 x manual.

Laser safety function

The laser will only function when the laser safety key switch is turned to the "ON" position. When in the "OFF" position, the HADRON will only use strobe and derby for all settings. The remote socket below the key switch serves a similar function; the laser function will be disabled when the two connections of this socket are connected. To restart the laser function, the key switch needs to be turned off and on again.

| | | |
|---|--|---|
|  | <p>Please do not open the cover, contains high voltage. This product is not serviceable or repairable by the end user. Please refer to qualified personnel for service and repair.</p> |  |
|---|--|---|

To prevent risk of fire or electric shock, do not expose the unit to rain or damp environments. In the event of a spillage, disconnect the mains and allow the unit to dry out naturally. Qualified personnel should then check the unit before continuing use. Always check the correct voltage and the condition of the IEC lead before connecting to a power outlet. Always ensure any DMX leads used are in good condition with no short connections or damaged plugs.



Warning

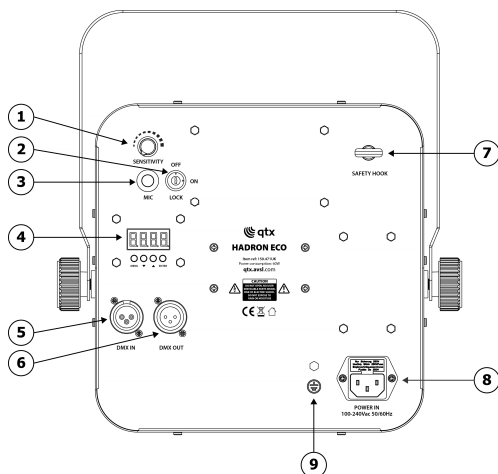
This item contains laser radiation, no user serviceable/repairable parts within. Please refer to licensed electrician to perform any required repair or maintenance. This product is strictly for professional use only. Approved personnel required to install and operate the unit, strictly following the laser health and safety guide HSG95.

For detailed information regarding HSG95, please see the below web link:

<http://www.hse.gov.uk/pubns/books/hsg95.htm>



This product is a class 3B laser, which means extreme care needs to be taken when operating the device. This laser can cause permanent damage to eyesight through misuse or misconduct. Please read through this manual thoroughly before use.



1. Sound sensitivity rotary adjustment
2. Laser key switch
3. Microphone
4. LED display with 4 button controls (menu, up, down and enter)
5. DMX signal in
6. DMX signal out
7. I-bolt for secondary flying point
8. IEC mains in
9. Earth binding (DO NOT UNSCREW)

Manual control menu

Press the "menu" button to enter the setting menu.

Press "up" and "down" to navigate through various setting options.

Press "enter" to enter the desired setting.

Choose set value by "up" and "down" buttons and confirm setting by pressing "enter".

| Mode | Program | Description |
|-----------------|---------|-----------------|
| Auto | Au-1 | Auto program 1 |
| | Au-2 | Auto program 2 |
| | Au-3 | Auto program 3 |
| | Au-4 | Auto program 4 |
| | Au-5 | Auto program 5 |
| | Au-6 | Auto program 6 |
| | Au-7 | Auto program 7 |
| Sound (Sond) | So-1 | Sound program 1 |
| | So-2 | Sound program 2 |
| | So-3 | Sound program 3 |
| | So-4 | Sound program 4 |
| | So-5 | Sound program 5 |
| | So-6 | Sound program 6 |
| | So-7 | Sound program 7 |

Manual control menu continued

| Mode | Program | Description |
|-------------------------------|----------|---|
| Speed (SPeD) | SP 1—SP9 | Speed value for program adjustable |
| Sensitivity (SEnS) | Se 1—Se9 | MIC value adjustable |
| Silent Scene (SILE) | OFF | The fixture is open light on music by Sound program |
| | ON | The fixture is closed light on music by Sound program |
| Wireless Remote (InFr) | ON | Enable unit to receive IR remote signal |
| | OFF | Disable IR remote signal |
| DMX Channels (Addr) | 4CH | d 001~d 512 (controller must be plugged in) |
| | 8CH | d 001~d 512 (controller must be plugged in) |
| Slave Mode | Slav | Slave (use when in Master/Slave mode for 2 nd , 3 rd etc fixtures in the chain) |
| Colour (CoLo) | C1 | Red |
| | C2 | Green |
| | C3 | Blue |
| | C4 | White |
| | C5 | Amber |
| | C6 | Red + Green |
| | C7 | Red + Blue |
| | C8 | Green + Blue |
| | C9 | Blue + Amber |
| | C10 | Red + Blue + Amber |
| | C11 | Red + Green + Amber |
| | C12 | Blue + White + Amber |
| | C13 | Green + White + Amber |
| | C14 | Red + White + Amber |
| | C15 | Red + Green + Blue + White + Amber |

4 channel DMX value reference

| | | |
|--|---------|---------------------|
| CH1 LED effect lighting (RGBWA) | 0~10 | No function |
| | 11~20 | Red |
| | 21~30 | Green |
| | 31~40 | Blue |
| | 41~50 | White |
| | 51~60 | Amber |
| | 61~70 | Red + Green |
| | 71~80 | Red + Blue |
| | 81~90 | Red + White |
| | 91~100 | Red + Amber |
| | 101~110 | Green + Blue |
| | 111~120 | Green + White |
| | 121~130 | Green + Amber |
| | 131~140 | Blue + White |
| | 141~150 | Blue+ Amber |
| | 151~160 | Red + Blue + Amber |
| | 161~170 | Red + Green + Amber |

| | | |
|--|---------|--|
| CH1 cont. LED effect lighting (RGBWA) | 171~180 | Blue + White + Amber |
| | 181~190 | Green + White + Amber |
| | 191~200 | Red + White + Amber |
| | 201~210 | Green + Blue + White+ Amber |
| | 211~220 | Red + Blue + White+ Amber |
| | 221~230 | Red + Green + White + Amber |
| | 231~240 | Red + Green + Blue + Amber |
| | 241~250 | Red + Green + Blue + White |
| | 251~255 | Red + Green + Blue + White + Amber |
| CH2 Laser | 0~10 | No function |
| | 11~100 | Laser Red On |
| | 101~200 | Laser Green On |
| | 201~255 | Red and Green laser on |
| CH3 Motor | 11~127 | Clockwise rotation(From slow to fast) |
| | 139~255 | Counter clockwise rotation (From slow to fast) |
| CH4 White LED's | 0~10 | No function |
| | 11~20 | #1 |
| | 21~30 | #2 |
| | 31~40 | #3 |
| | 41~50 | #4 |
| | 51~60 | #5 |
| | 61~70 | #6 |
| | 71~80 | #7 |
| | 81~90 | #8 |
| | 91~100 | #1 & #5 |
| | 101~110 | #2 & #6 |
| | 111~120 | #3 & #7 |
| | 121~130 | #4 & #8 |
| | 131~140 | #1 & #2 |
| | 141~150 | #3 & #4 |
| | 151~160 | #5 & #6 |
| | 161~170 | #7 & #8 |
| | 171~180 | #1 & #8 |
| | 181~190 | #4 & #5 |
| | 191~200 | #1 #3 #5 & #7 |
| | 201~210 | #2 #4 #6 & #8 |
| | 211~220 | #3 #4 #5 & #6 |
| | 221~230 | #1 #2 #7 & #8 |
| | 231~240 | #1 #2 #3 & #4 |
| | 241~250 | #5 #6 #7 & #8 |
| | 251~255 | All on |

8 channel DMX value reference

| | | |
|--|---------|--|
| CH1 LED effect lighting (RGBWA) | 0~10 | No function |
| | 11~20 | Red |
| | 21~30 | Green |
| | 31~40 | Blue |
| | 41~50 | White |
| | 51~60 | Amber |
| | 61~70 | Red + Green |
| | 71~80 | Red + Blue |
| | 81~90 | Red + White |
| | 91~100 | Red + Amber |
| | 101~110 | Green + Blue |
| | 111~120 | Green + White |
| | 121~130 | Green + Amber |
| | 131~140 | Blue + White |
| | 141~150 | Blue+ Amber |
| | 151~160 | Red + Blue + Amber |
| | 161~170 | Red + Green + Amber |
| | 171~180 | Blue + White + Amber |
| | 181~190 | Green + White + Amber |
| | 191~200 | Red + White + Amber |
| | 201~210 | Green + Blue + White+ Amber |
| | 211~220 | Red + Blue + White+ Amber |
| | 221~230 | Red + Green + White + Amber |
| | 231~240 | Red + Green + Blue + Amber |
| | 241~250 | Red + Green + Blue + White |
| | 251~255 | Red + Green + Blue + White + Amber |
| | 201~255 | Red and Green laser on |
| CH2 - Motor | 11~127 | Clockwise rotation(From slow to fast) |
| | 139~255 | Counter clockwise rotation (From slow to fast) |
| CH3 Laser | 0~10 | No function |
| | 11~100 | Laser Red On |
| | 101~200 | Laser Green On |
| | 201~255 | Red and Green laser on |
| CH4 Laser Motor | 11~127 | Clockwise rotation (from slow to fast) |
| | 139~255 | Counter clockwise rotation (from slow to fast) |
| CH5 White LED's | 0~10 | No function |
| | 11~20 | #1 |
| | 21~30 | #2 |
| | 31~40 | #3 |
| | 41~50 | #4 |
| | 51~60 | #5 |
| | 61~70 | #6 |
| | 71~80 | #7 |
| | 81~90 | #8 |
| | 91~100 | #1 & #5 |

| | | |
|---------------------------------|---------|--|
| CH5 cont. White LED's | 101~110 | #2 & #6 |
| | 111~120 | #3 & #7 |
| | 121~130 | #4 & #8 |
| | 131~140 | #1 & #2 |
| | 141~150 | #3 & #4 |
| | 151~160 | #5 & #6 |
| | 161~170 | #7 & #8 |
| | 171~180 | #1 & #8 |
| | 181~190 | #4 & #5 |
| | 191~200 | #1 #3 #5 & #7 |
| | 201~210 | #2 #4 #6 & #8 |
| | 211~220 | #3 #4 #5 & #6 |
| | 221~230 | #1 #2 #7 & #8 |
| | 231~240 | #1 #2 #3 & #4 |
| | 241~250 | #5 #6 #7 & #8 |
| | 251~255 | All on |
| CH6 Strobe | 11~255 | Strobe (from slow to fast) |
| CH7 | 11~200 | Auto DMX |
| | 201~255 | Sound DMX |
| CH8 | 0~255 | Auto DMX/ Sound DMX Speed (Slow--Fast) |

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 laser output | Check laser safety key lock is turned to the On position |
| | Switched safety key lock off and on again to reactivate laser function if it has been previously deactivate via remote socket |
| 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 |

IR Remote Control

BLACK OUT Mode

Press BLACK OUT off existing modes, Press again BLACK OUT return the last mode.

AUTO Mode

Automatic mode will enable you to run the automatic programs on the product.

To turn on Automatic mode:

1. Press <AUTO> on the IRC.
2. Press <+> or <-> to choose between the different auto programs.

SOUND Mode

Sound-active mode will enable the product to respond to the music.

To turn on Sound-active mode:

1. Press <SOUND> on the IRC.
2. Press <+> or <-> to choose between the different SOUND programs.

STROBE Mode

To adjust the strobe speed of the automatic program and the sound active program

1. Press <STROBE> on the IRC.
2. Press <+> or <-> to either increase or decrease the speed of the program.
3. Press <STROBE> again to turn off the strobe.

SPEED Mode

To adjust the speed of the automatic program and the sound-active program.

1. Press <SPEED> on the IRC.
2. Press <+> or <-> to either increase or decrease the speed of the program.

SENSITIVITY Mode

To adjust sound sensitivity in sound-active mode

1. Press <SENSITIVITY> on the IRC.
2. Press <+> or <-> to either increase or decrease sound sensitivity.

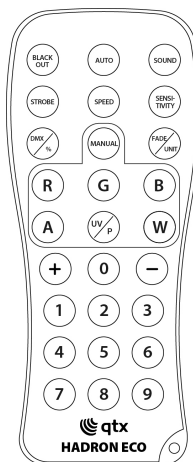
DMX Mode

To enable DMX or disallow DMX on the product.

Press <DMX> on the IRC, the product will work on the DMX controlling modes.

MANUAL Mode

1. Press <MANUAL> on the IRC.
2. Press <R>, <G>, , <W>, <A> (red, green, blue, white or amber) to choose your colour.
3. Press <+> or <-> to either increase or decrease the in-built group colour.



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.

*Errors and omissions excepted.
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