

# MESMERIZER

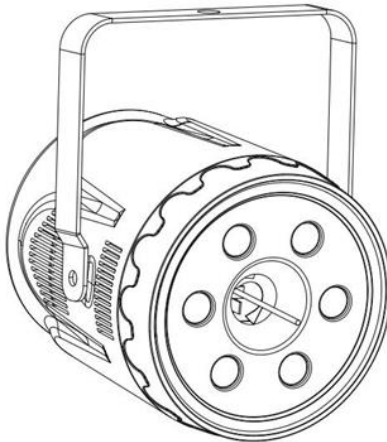
## 3D Animation Laser

Item ref: 152.745UK

User Manual

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

Thank you for choosing the QTX Mesmerizer 3D animation Laser With a stunning set of 440 dynamic and static patterns available including jaw-dropping 3D laser animations, colourful RGBW patterns and wall washes, the Mesmerizer is sure to pack a punch at any party, show or event. 4 control modes including auto, sound to light and DMX512 make this compact and lightweight unit perfect for any occasion large or small.



### In the box:

Your Mesmerizer should arrive with you in a single carton in good condition. The carton should contain 1x main unit with bracket, 1x UK IEC mains lead, 1x laser key and 1x user guide.

### Warning:

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.



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



## Caution: Laser radiation

Avoid pointing directly towards eyes. Laser output can cause injury if viewed directly. This product is a Class 3B laser and should only be installed and used by persons who are trained in the management of laser radiation and are able to operate in accordance within the guidance given by the Health and Safety Executive (HSE) in "The Safety of Laser Lighting Displays". Information on this guidance can be found on the following website: <https://www.hse.gov.uk/pubns/indg224.htm>



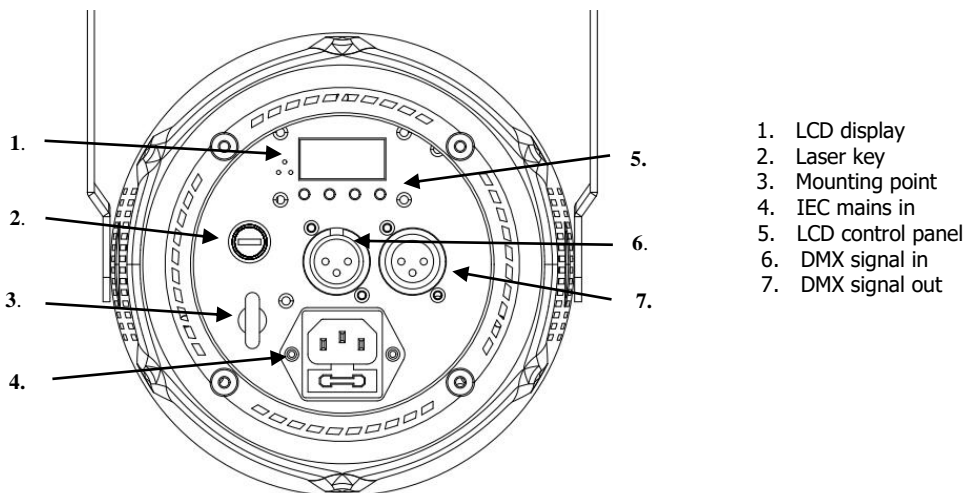
## Placement:

- Use the included mounting bracket to fix to a stand or lighting truss
- Use secondary safety fixings if mounting overhead.
- Keep away from damp or dusty environments.
- Ensure adequate air-flow around the fixture housings.
- Ensure adequate access to controls and connections.
- Do not aim LED or laser output directly into line of sight, as this can result in eye injury.

## Cleaning:

- Use a soft cloth with a neutral detergent to clean the casing as required.
- Use a vacuum cleaner to clear ventilation grilles of any dust or debris build-ups.
- Do not use strong solvents for cleaning the unit.

## Rear panel controls:



## Manual control menu:

Press the "**MENU**" button to enter the settings menu.  
Press "**UP**" and "**DOWN**" buttons to navigate through various setting functions.  
Press "**ENTER**" button to confirm the desired setting.

| Menu | Function  | Description                                   |
|------|-----------|---|
| Addr | A001-A512 | DMX address settings                          |
| CHND | 21CH      | DMX 21CH select                               |
|      | 7CH       | DMX 7CH select                                |
| Auto | Au0       | Auto random mode                              |
|      | Au1-Au15  | Auto group selections                         |
| SPEE | SP0-SP9   | Auto mode speed adjust-slow to fast           |
| SoUn | So0-So15  | Sound to light range selections               |
| SoSE | SE0-SE9   | Sound to light sensitivity adjust-low to high |
| vEr  | vE10      | Software version 1.0                          |

### DMX modes:

The Mesmerizer can be controlled by DMX signal, simply connect the DMX signal source to the DMX input on the unit via a balanced XLR lead. Extra fixtures can be controlled by the same DMX signal by looping through the DMX out on the unit. To enter DMX mode, select A001 from the menu and confirm the correct start address by using the “**UP**” and “**DOWN**” buttons and “**ENTER**”. The A on the LED display will begin to flash once it’s received the DMX signal from the controller. This unit has either 7 or 21 DMX channels as indicated in the tables below:

### 7-CH (start address A001 for 1st unit, A008 for 2nd unit etc):

| Channel | Function             | Value   | Details   |
|---------|----------------------|---------|---|
| CH1     | Dimmer               | 0-9     | No function   |
|         |                      | 10-255  | Total dimmer, laser on and LED for dimmer           |
| CH2     | Strobe               | 0-9     | LED No function                                     |
|         |                      | 10-255  | LED Strobe from slow to fast                        |
| CH3     | LED colour control   | 0-9     | LED No function                                     |
|         |                      | 10-79   | LED colour macro                                    |
|         |                      | 80-159  | LED jump from slow to fast                          |
|         |                      | 160-255 | LED gradual change from slow to fast                |
| CH4     | Laser colour control | 0-1     | Laser off   |
|         |                      | 2-69    | W-R--B-P-CYAN-Y-G (Fixed colour)                    |
|         |                      | 70-79   | Total colour change (chase speed controlled by CH5) |
|         |                      | 80-89   | Default colour (chase speed controlled by CH5)      |
|         |                      | 90-94   | Rainbow colour (chase speed controlled by CH5)      |

|     |                            |         |   |
|-----|----------------------------|---------|---|
|     |                            | 95-114  | 2-Segment colour option, 5 datas as one step (chase speed controlled by CH5)                  |
|     |                            | 115-139 | 3-Segment colour option, 5 datas as one step (chase speed controlled by CH5)                  |
|     |                            | 140-164 | 4-Segment colour option, 5 datas as one step (chase speed controlled by CH5)                  |
|     |                            | 165-189 | 8-Segment colour option, 5 datas as one step (chase speed controlled by CH5)                  |
|     |                            | 190-224 | 16-Segment colour option, 5 datas as one step (chase speed controlled by CH5)                 |
|     |                            | 225-229 | Colour dynamic chase 1 (speed controlled by CH5)  |
|     |                            | 230-234 | Colour dynamic chase 2 (speed controlled by CH5)  |
|     |                            | 235-239 | Colour dynamic chase 3 (speed controlled by CH5)  |
|     |                            | 240-244 | Colour dynamic chase 4 (speed controlled by CH5)  |
|     |                            | 245-249 | Colour dynamic chase 5 (speed controlled by CH5)  |
|     |                            | 250-255 | Colour dynamic chase 6 (speed controlled by CH5)  |
| CH5 | Colour chase speed         | 0-9     | No function   |
|     |                            | 10-127  | Clockwise colour chase from slow to fast  |
|     |                            | 128-255 | Anti-clockwise colour chase from slow to fast   |
| CH6 | Inner dynamic effect       | 0-1     | No function   |
|     |                            | 3-183   | Inner dynamic effect single option, 2 datas as one effect, speed and colour controlled by CH7 |
|     |                            | 184-248 | Inner dynamic effect group option, 5 datas as one effect, speed and colour controlled by CH7  |
|     |                            | 249-255 | Random auto, speed and colour controlled by CH7   |
| CH7 | Inner dynamic effect speed | 0-127   | Speed from fast to slow by inner programme  |
|     |                            | 128-255 | Speed from fast to slow by DMX controller   |

## 21-CH (start address A001 for 1st unit, A022 for 2nd unit etc):

| Channel | Function           | Value  | Details                                   |
|---------|--------------------|--------|---|
| CH1     | Dimmer             | 0-9    | No function                               |
|         |                    | 10-255 | Total dimmer, laser on and LED for dimmer |
| CH2     | Strobe             | 0-9    | LED No function                           |
|         |                    | 10-255 | LED Strobe from slow to fast              |
| CH3     | LED colour control | 0-9    | LED No function                           |
|         |                    | 10-79  | LED colour macro                          |

|     |                       |         |   |
|-----|-----------------------|---------|---|
|     |                       | 80-159  | LED jump from slow to fast  |
|     |                       | 160-255 | LED gradual change from slow to fast  |
| CH4 | Laser colour control  | 0-1     | Laser off   |
|     |                       | 2-69    | W-R--B-P-CYAN-Y-G (Fixed colour)  |
|     |                       | 70-79   | Total colour change (chase speed controlled by CH5)                           |
|     |                       | 80-89   | Default colour (chase speed controlled by CH5)                                |
|     |                       | 90-94   | Rainbow colour (chase speed controlled by CH5)                                |
|     |                       | 95-114  | 5-Segment colour option, 5 datas as one step (chase speed controlled by CH5)  |
|     |                       | 115-139 | 6-Segment colour option, 5 datas as one step (chase speed controlled by CH5)  |
|     |                       | 140-164 | 7-Segment colour option, 5 datas as one step (chase speed controlled by CH5)  |
|     |                       | 165-189 | 8-Segment colour option, 5 datas as one step (chase speed controlled by CH5)  |
|     |                       | 190-224 | 16-Segment colour option, 5 datas as one step (chase speed controlled by CH5) |
|     |                       | 225-229 | Colour dynamic chase 1 (chase speed controlled by CH5)                        |
|     |                       | 230-234 | Colour dynamic chase 2 (chase speed controlled by CH5)                        |
|     |                       | 235-239 | Colour dynamic chase 3 (chase speed controlled by CH5)                        |
|     |                       | 240-244 | Colour dynamic chase 4 (chase speed controlled by CH5)                        |
|     |                       | 245-249 | Colour dynamic chase 5 (chase speed controlled by CH5)                        |
|     |                       | 250-255 | Colour dynamic chase 6 (chase speed controlled by CH5)                        |
| CH5 | Colour chase speed    | 0-9     | No function   |
|     |                       | 10-127  | Clockwise colour chase from slow to fast                                      |
|     |                       | 128-255 | Anti-clockwise colour chase from slow to fast                                 |
| CH6 | Patterns option       | 0-255   | Patterns option (patterns group controlled by CH7)                            |
| CH7 | Patterns group option | 0-24    | Inner patterns group 1  |
|     |                       | 25-49   | Inner patterns group 2  |
|     |                       | 50-74   | Inner patterns group 3  |
|     |                       | 75-99   | Inner patterns group 4  |
|     |                       | 100-124 | Inner patterns group 5  |
|     |                       | 125-149 | Dynamic patterns group 1  |
|     |                       | 150-174 | Dynamic patterns group 2  |

|      |                          |         |  |
|------|--------------------------|---------|--|
|      |                          | 175-255 | No function                                      |
| CH8  | Pattern size             | 0-255   | Pattern size option by manual                    |
| CH9  | Pattern auto zoom        | 0-15    | Pattern size option                              |
|      |                          | 16-55   | From small to big speed option                   |
|      |                          | 56-95   | From big to small speed option                   |
|      |                          | 96-135  | Big and small zoom speed option                  |
|      |                          | 136-175 | Cycle zoom effect 1                              |
|      |                          | 176-215 | Cycle zoom effect 2                              |
|      |                          | 216-255 | Cycle zoom effect 3                              |
| CH10 | Patterns middle rotation | 0-127   | Rotation angle option                            |
|      |                          | 128-191 | Clockwise rotation speed option                  |
|      |                          | 192-255 | Anti-clockwise rotation speed option             |
| CH11 | Patterns X rotation      | 0-127   | X location option                                |
|      |                          | 128-255 | X speed option                                   |
| CH12 | Patterns Y rotation      | 0-127   | Y location option                                |
|      |                          | 128-255 | Y speed option                                   |
| CH13 | Horizontal remove        | 0-127   | Horizontal location option                       |
|      |                          | 128-255 | Horizontal remove speed from slow to fast        |
| CH14 | Vertical remove          | 0-127   | Vertical location option                         |
|      |                          | 128-255 | Vertical remove speed from slow to fast          |
| CH15 | X wave                   | 0-9     | No function                                      |
|      |                          | 10-255  | Wave range and speed adjust                      |
| CH16 | Patterns drawing         | 0-1     | No function                                      |
|      |                          | 2-63    | Manual drawing 1                                 |
|      |                          | 64-127  | Manual drawing 2                                 |
|      |                          | 128-153 | Auto drawing increase                            |
|      |                          | 154-179 | Auto drawing decrease                            |
|      |                          | 180-205 | Auto drawing, reverse from increase to decrease  |
|      |                          | 206-255 | Auto drawing, syntropy from increase to decrease |
| CH17 | Patterns trace           | 0-15    | No function                                      |

|      |                            |         |  |
|------|----------------------------|---------|--|
|      | option                     | 166-255 | Trace option, range from big to small  |
| CH18 | Trace speed                | 0-255   | Trace speed from slow to fast  |
| CH19 | Gobo wheel                 | 0-255   | Laser gobos wheel change   |
| CH20 | Inner dynamic effect       | 0-1     | No function  |
|      |                            | 3-183   | Inner dynamic effect single option, 2 datas as one effect, speed and colour controlled by CH21 |
|      |                            | 184-248 | Inner dynamic effect group option, 5 datas as one effect, speed and colour controlled by CH21  |
|      |                            | 249-255 | Random auto, speed and colour controlled by CH21   |
| CH21 | Inner dynamic effect speed | 0-127   | Speed from fast to slow by inner programme   |
|      |                            | 128-255 | Speed from fast to slow by DMX controller  |

### Specifications:

|                          |  |
|--------------------------|--|
| <b>Power supply</b>      | 110-240Vac, 50/60Hz (IEC)              |
| <b>Power consumption</b> | 40W (max)                              |
| <b>Fuse rating</b>       | F2A                                    |
| <b>Laser power</b>       | 1500mW                                 |
| <b>Laser Class</b>       | 3B                                     |
| <b>DMX channels</b>      | 7/21                                   |
| <b>LED power</b>         | 6x 3W RGBW                             |
| <b>Modes</b>             | Auto/Sound/DMX512/Master-Slave         |
| <b>Connections</b>       | IEC power, DMX in/out (XLR), Laser key |
| <b>Dimensions</b>        | 210 x 217 x 235mm                      |
| <b>Weight</b>            | 2.1kg                                  |

### 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 or light output | Check control panel mode settings   |
|                          | Check DMX settings from controller (dimmer levels, blackout etc.)   |
|                          | Check laser key on rear panel is turned on  |
| Unresponsive to DMX      | Check that unit is in DMX mode and ensure the A on the DMX address flashes to confirm it's receiving a DMX signal |
|                          | Check DMX controller is on correct fixture/page   |
|                          | Check master dimmer value   |
|                          | Check correct DMX address is set  |
|                          | Check DMX connection and leads  |
| Overheating/cutting out  | Ensure adequate ventilation and unit is not too close to a heat source  |



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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