

# TRI-SCAN

Item ref: 151.590UK

## Triple Head LED Scanner

User Manual

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

Thank you for choosing the QTX TRI-SCAN. This scanner boasts three heads, each with 5 high power LEDs in red, green, blue, white and amber. The three mirrors operate both independently and synchronised on the X axis providing large area coverage while giving a sharp and colourful moving effect. Operational in auto, sound-to-light or DMX modes, ideal for use as a centrepiece for a variety of small to medium sized venues, nightclubs or for mobile DJs.

### In the box:

Your TRI-SCAN should arrive to you in good condition, supplied with mains leads and mounting bracket. If there is any damage or items missing contact your dealer immediately.

### 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, contain high voltage. This product is not serviceable or repairable by end user. Please refer to qualified personnel for service and repair.

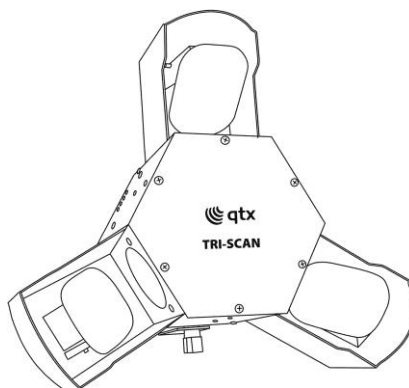
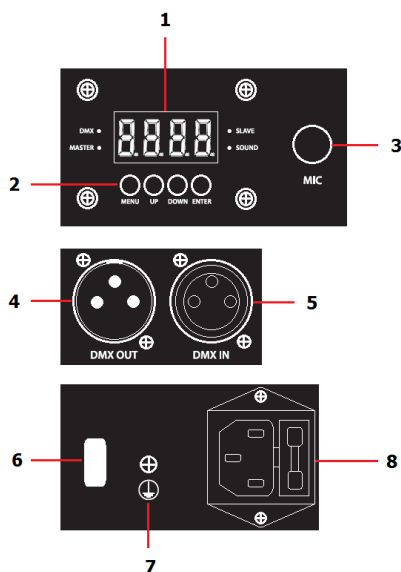


- Always check the correct voltage and the condition of the IEC lead before connecting to a power outlet.
- Always ensure any DMX leads used are in good condition with no short connections or damaged plugs.

### Setup:

Installation should be carried out by qualified personnel only and must comply with HSG95 guidelines. This TRI-SCAN is suitable for overhead installation for floor scan or freestanding for ceiling scan. For overhead installation it is advised to install the unit 3 metres above the stage/ground, DO NOT face audience at head level. When installing overhead, always use a safety wire secured to the fixture by the safety hook behind the unit.

## Product Layout:



1. LCD Display
2. Back panel control buttons
3. Built-in mic
4. DMX signal in
5. DMX signal out
6. Secondary safety support hook
7. Earth connection DO NOT REMOVE
8. IEC power in

## 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 desired setting, choose set value by "up" and "down" buttons and confirm setting by press "enter".

| Display      | Mode                   | Press ENTER for setting  |
|--------------|------------------------|--|
| <b>Addr</b>  | DMX address            | <b>ADD 1</b> to <b>AS 12</b>   |
| <b>Chnd</b>  | DMX Channel mode       | <b>1_Ch</b> for 1 channel control or <b>B_ch</b> for 8 channel control |
| <b>SLnd</b>  | Slave mode             | <b>MASTER</b> = master, <b>SL_1</b> = slave 1, <b>SL_2</b> = slave 2   |
| <b>Shnd</b>  | Auto mode              | <b>Sh_0</b> to <b>Sh_8</b>   |
| <b>SoUn</b>  | Sound activation       | <b>on</b> = sound to light on, <b>oFF</b> = sound to light off         |
| <b>SEnS</b>  | Microphone sensitivity | <b>0 - 100</b> (0-100% gain)   |
| <b>LEd</b>   | LED display            | <b>on</b> = stays on, <b>oFF</b> = turns off after 10 sec untouched    |
| <b>dI SP</b> | LED display inverted   | <b>dI SP</b> / <b>dSI P</b> (normal or inverted display)               |
| <b>tEST</b>  | Fixture test sequence  | Fixture steps through all functions – press MENU to exit               |
| <b>hoUr</b>  | Fixture hours          | Displays how many hours of use for the fixture                         |
| <b>uEr</b>   | Software version       | <b>u 10</b>  |
| <b>rSEt</b>  | Unit reset             | Press enter to reset to factory setting                                |

## Operation:

The TRI-SCAN can operate in stand-alone, master, slave or DMX modes.

**Stand-alone/master/slave** – For stand-alone mode, first choose whether sound-to-light is required by selecting **on** or **oFF** from **SoUn**. Then select one of the 8 pre-programmed chase modes from **Shnd** option **Sh\_0** to **Sh\_8**, select **Sh\_0** for random chase option. Further TRI-SCAN units can be controlled by a master allowing synchronization. Ensure the control unit slave mode **SLnd** is set as **oFF** and the controlled unit slave mode is set as **SL\_1** or **SL\_2**. Connect DMX out from the master unit to the DMX in of the slave unit for synchronized chase. **SL\_1** allows slave unit to clone the master unit, **SL\_2** allows slave unit to have independent movement from the master unit.

**DMX mode** – Simply connect the DMX signal source to DMX in of the TRI-SCAN via a balanced XLR lead. Extra fixtures can be controlled by the same DMX signal from the loop through DMX signal on the DMX out. Ensure the correct DMX start address is set from the **Addr** option on the manual control.

### Maintenance:

There are no end-user serviceable parts within the unit. To maintain a workable condition we advice dusting the unit on a regular basis. Before cleaning or dusting, always ensure the mains power cable is removed from the unit. Use a soft cloth, lightly dampened with water or mild detergent to wipe off the dust from the casing. DO NOT use spray on the case as droplets may enter the unit through the ventilation and cause damage to electronics inside. Remove the trapped dust from the ventilation holes of the unit with a vacuum cleaner with a brush attachment, a dust blower or a hand brush.

### DMX channel value reference:

1 channel mode:

| Channel                                      | DMX Value        | Function               |
|--|------------------|------------------------|
| Channel 1 sound to light active from 008-255 | 000-007          | Black out              |
|  | 008-037          | Pre-programmed Chase 1 |
|  | 038-067          | Pre-programmed Chase 2 |
|  | 068-097          | Pre-programmed Chase 3 |
|  | 098-127          | Pre-programmed Chase 4 |
|  | 128-157          | Pre-programmed Chase 5 |
|  | 158-187          | Pre-programmed Chase 6 |
|  | 188-217          | Pre-programmed Chase 7 |
|  | 218-247          | Pre-programmed Chase 8 |
| 248-255                                      | Random Chase 1-8 |                        |

8 channel mode:

| Channel  | DMX Value | Function  |
|--|-----------|---|
| Channel 1                                      | 000-255   | Master Dimmer, 0-100%                               |
| Channel 2                                      | 000-008   | No Strobe   |
|  | 009-255   | Strobe, speed increase with DMX value               |
| Channel 3                                      | 000-255   | Scan head one, tilt position                        |
| Channel 4 (Colour setting for scan head one)   | 000-008   | Black out   |
|  | 009-016   | R   |
|  | 017-024   | G   |
|  | 025-032   | B   |
|  | 033-040   | W   |
|  | 041-048   | A   |
|  | 049-056   | R+G   |
|  | 057-064   | R+B   |
|  | 065-072   | R+W   |
|  | 073-080   | R+A   |
|  | 081-088   | G+B   |
|  | 089-096   | G+W   |
|  | 097-104   | G+A   |
|  | 105-112   | B+W   |
|  | 113-120   | B+A   |
|  | 121-128   | W+A   |
|  | 129-136   | R+G+B   |
|  | 137-144   | R+G+W   |
|  | 145-152   | R+G+A   |
|  | 153-160   | R+B+W   |
|  | 161-168   | R+B+A   |
|  | 169-176   | R+W+A   |
|  | 177-184   | G+B+W   |
|  | 185-192   | G+B+A   |
|  | 193-200   | G+W+A   |
|  | 201-208   | B+W+A   |
|  | 209-216   | R+G+B+W   |
|  | 217-224   | R+G+W+A   |
| 225-232  | R+G+B+A   |   |
| 233-240  | R+B+W+A   |   |
| 241-248  | G+B+W+A   |   |
| 249-255  | R+G+B+W+A |   |
| Channel 5                                      | 000-255   | Scan head two, tilt position                        |
| Channel 6 (Colour setting for scan head two)   | 0-008     | Black out   |
|  | 009-255   | Colour combination, please refer to Channel 4 value |
| Channel 7                                      | 000-255   | Scan head three, tilt position                      |
| Channel 8 (Colour setting for scan head three) | 0-008     | Black out   |
|  | 009-255   | Colour combination, please refer to Channel 4 value |

## Specifications

|                             |  |
|-----------------------------|--|
| Power supply                | 110-240Vac, 50/60Hz (IEC)                          |
| Power consumption (Max.)    | 60W  |
| Fuse rating                 | T3A  |
| LED type                    | 15 x 3W  |
| LED colours                 | 3 x red, 3 x green, 3 x blue, 3 x white, 3 x amber |
| DMX Channels                | 1 or 8   |
| Dimensions                  | 390 x 390 x 150mm                                  |
| Weight                      | 3.6kg  |
| Laser & LED safety standard | BSEN62471:2008                                     |

## 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/<br>cutting out | Ensure that the unit is not too close to a heat source                    |
|                             | Ensure that adequate airflow is afforded for cooling                      |



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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