

8 MAINTENANCE AND CLEANING

The following points have to be considered during the inspection:

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION

Disconnect from mains before starting maintenance operation.



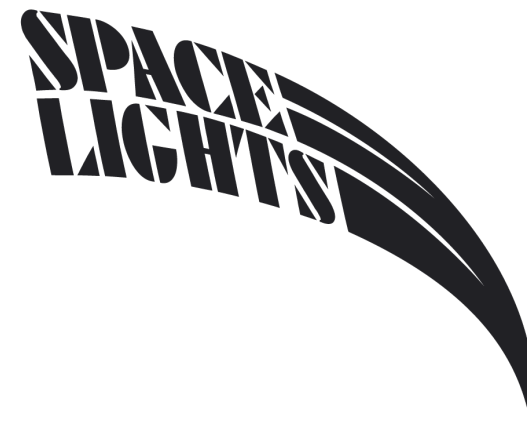
In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

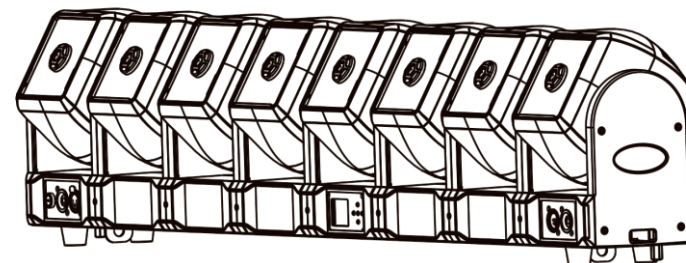
We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.



PLANETA BAR 860



CE F  IP20 t_a:40°C t_c:100°C

User Manual

KEEP THIS MANUAL FOR FUTURE NEEDS

1 SAFETY INSTRUCTIONS



CAUTION

Becareful with your operations. With a dangerous voltage you cansuffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.



IMPORTANT

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

| | | | |
|-----|-------------------------|---------|---|
| 112 | EFFECT (STRIP LIGHT 5) | 0 - 255 | Dynamic effect options |
| 113 | Speed (STRIP LIGHT 5) | 0 - 255 | Speed control of dynamic effect |
| 114 | DIMMER (STRIP LIGHT 6) | 0 - 255 | Linear Dimmer 0 – 100% |
| 115 | SHUTTER (STRIP LIGHT 6) | 0 - 255 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| 116 | RED (STRIP LIGHT 6) | 0 - 255 | Linear 0 -100% |
| 117 | GREEN (STRIP LIGHT 6) | 0 - 255 | Linear 0 -100% |
| 118 | BLUE (STRIP LIGHT 6) | 0 - 255 | Linear 0 -100% |
| 119 | EFFECT (STRIP LIGHT 6) | 0 - 255 | Dynamic effect options |
| 120 | Speed (STRIP LIGHT 6) | 0 - 255 | Speed control of dynamic effect |
| 121 | DIMMER (STRIP LIGHT 7) | 0 - 255 | Linear Dimmer 0 – 100% |
| 122 | SHUTTER (STRIP LIGHT 7) | 0 - 255 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| 123 | RED (STRIP LIGHT 7) | 0 - 255 | Linear 0 -100% |
| 124 | GREEN (STRIP LIGHT 7) | 0 - 255 | Linear 0 -100% |
| 125 | BLUE (STRIP LIGHT 7) | 0 - 255 | Linear 0 -100% |
| 126 | EFFECT (STRIP LIGHT 7) | 0 - 255 | Dynamic effect options |
| 127 | Speed (STRIP LIGHT 7) | 0 - 255 | Speed control of dynamic effect |
| 128 | DIMMER (STRIP LIGHT 8) | 0 - 255 | Linear Dimmer 0 – 100% |
| 129 | SHUTTER (STRIP LIGHT 8) | 0 - 255 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| 130 | RED (STRIP LIGHT 8) | 0 - 255 | Linear 0 -100% |
| 131 | GREEN (STRIP LIGHT 8) | 0 - 255 | Linear 0 -100% |
| 132 | BLUE (STRIP LIGHT 8) | 0 - 255 | Linear 0 -100% |
| 133 | EFFECT (STRIP LIGHT 8) | 0 - 255 | Dynamic effect options |
| 134 | Speed (STRIP LIGHT 8) | 0 - 255 | Speed control of dynamic effect |

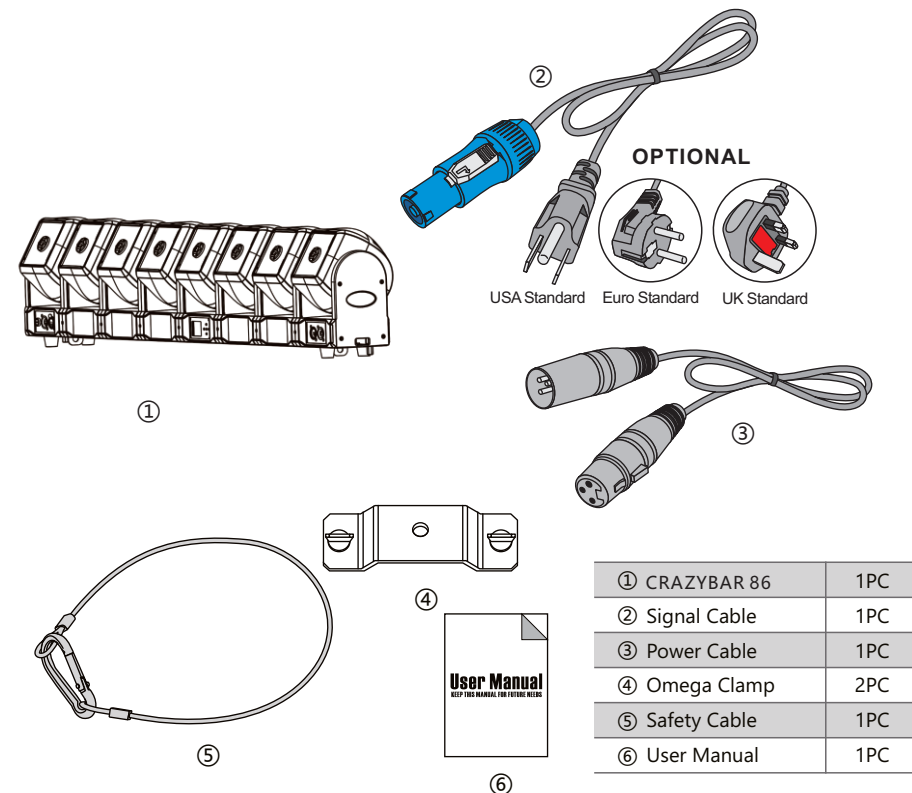
| | | | |
|-----|---------------------------------|-----------|---|
| 76 | 360° Continuous TILT 6 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 77 | 360° Continuous TILT 7 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 78 | 360° Continuous TILT 8 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 79 | DIMMER (STRIP LIGHT 1) | 0 - 255 | Linear Dimmer 0 – 100% |
| 80 | SHUTTER (STRIP LIGHT 1) | 0 - 255 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| 81 | RED (STRIP LIGHT 1) | 0 - 255 | Linear 0 -100% |
| 82 | GREEN (STRIP LIGHT 1) | 0 - 255 | Linear 0 -100% |
| 83 | BLUE (STRIP LIGHT 1) | 0 - 255 | Linear 0 -100% |
| 84 | EFFECT (STRIP LIGHT 1) | 0 - 255 | Dynamic effect options |
| 85 | Speed (STRIP LIGHT 1) | 0 - 255 | Speed control of dynamic effect |
| 86 | DIMMER (STRIP LIGHT 2) | 0 - 255 | Linear Dimmer 0 – 100% |
| 87 | SHUTTER (STRIP LIGHT 2) | 0 - 255 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| 88 | RED (STRIP LIGHT 2) | 0 - 255 | Linear 0 -100% |
| 89 | GREEN (STRIP LIGHT 2) | 0 - 255 | Linear 0 -100% |
| 90 | BLUE (STRIP LIGHT 2) | 0 - 255 | Linear 0 -100% |
| 91 | EFFECT (STRIP LIGHT 2) | 0 - 255 | Dynamic effect options |
| 92 | Speed (STRIP LIGHT 2) | 0 - 255 | Speed control of dynamic effect |
| 93 | DIMMER (STRIP LIGHT 3) | 0 - 255 | Linear Dimmer 0 – 100% |
| 94 | SHUTTER (STRIP LIGHT 3) | 0 - 255 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| 95 | RED (STRIP LIGHT 3) | 0 - 255 | Linear 0 -100% |
| 96 | GREEN (STRIP LIGHT 3) | 0 - 255 | Linear 0 -100% |
| 97 | BLUE (STRIP LIGHT 3) | 0 - 255 | Linear 0 -100% |
| 98 | EFFECT (STRIP LIGHT 3) | 0 - 255 | Dynamic effect options |
| 99 | Speed (STRIP LIGHT 3) | 0 - 255 | Speed control of dynamic effect |
| 100 | DIMMER (STRIP LIGHT 4) | 0 - 255 | Linear Dimmer 0 – 100% |
| 101 | SHUTTER (STRIP LIGHT 4) | 0 - 255 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| 102 | RED (STRIP LIGHT 4) | 0 - 255 | Linear 0 -100% |
| 103 | GREEN (STRIP LIGHT 4) | 0 - 255 | Linear 0 -100% |
| 104 | BLUE (STRIP LIGHT 4) | 0 - 255 | Linear 0 -100% |
| 105 | EFFECT (STRIP LIGHT 4) | 0 - 255 | Dynamic effect options |
| 106 | Speed (STRIP LIGHT 4) | 0 - 255 | Speed control of dynamic effect |
| 107 | DIMMER (STRIP LIGHT 5) | 0 - 255 | Linear Dimmer 0 – 100% |
| 108 | SHUTTER (STRIP LIGHT 5) | 0 - 255 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| 109 | RED (STRIP LIGHT 5) | 0 - 255 | Linear 0 -100% |
| 110 | GREEN (STRIP LIGHT 5) | 0 - 255 | Linear 0 -100% |
| 111 | BLUE (STRIP LIGHT 5) | 0 - 255 | Linear 0 -100% |

2 UNPACKING

The CRAZYBAR 86 is a high-performance stage lighting bar fixture that features 8 individual moving MINI heads, each of which is equipped with a powerful 60W 4-IN-1 RGBW LED light source. With its versatile design and advanced features, specially the mirror based optical system, the CRAZYBAR 86 is capable of producing a wide range of dynamic sharp and collimated BEAM lighting effects that are sure to captivate audiences and enhance performances. Also, thanks to the ingenious front neon ring design on each head, the BAR could bring ultra brilliant and magic lighting effect to the lighting designers.

The CRAZYBAR 86 also features a range of advanced lighting effects, including strobe, color mixing, and chase effects. These effects can be easily accessed and controlled via the controller, allowing for precise and customizable lighting setups.

The fixture is tuned with proper LED refresh rate for flicker free operation for TV and FILM. It's a perfect option for large scale live concerts, TV productions, road shows, clubs/bars, weddings, etc.

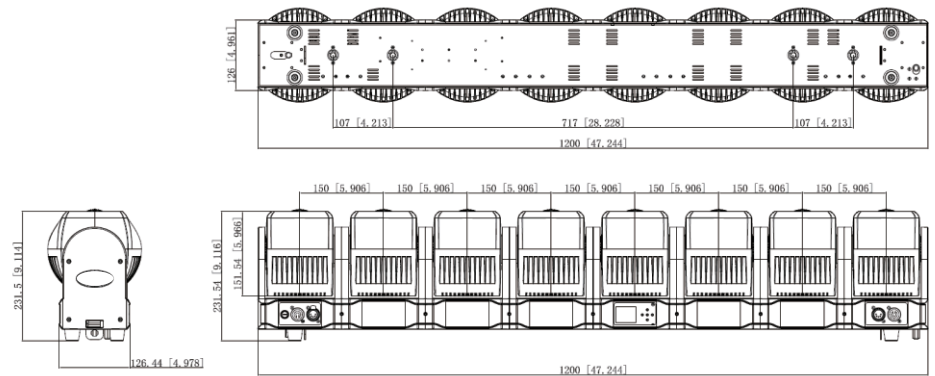


3 FEATURES & SPECIFICATIONS

8*60W 4-IN-1 RGBW LEDs
 (8*30)*0.2W 3-IN-1 SMD RGB LEDs
 Flicker free operation for broadcast TV and FILM
 Life Span: 50000H
 8PCS high efficiency lens
 3.5°Projection angle
 TILT: 2 modes
 1. 360° Continuous movement
 2. 240° (8/16 bit)
 Fast, quiet, smooth and precise 2-phase motors
 Smooth, fast and precise resolution for TILT movement with low noise operation
 Scan position memory, auto reposition after unexpected movement
 Pixel mapping capability with each LEDs controllable individually
 Sophisticated 4 colors RGBW mixed
 Linear CTO 2500-8000K
 Sharp beam effect
 Preset static patterns
 Preset dynamic patterns with variable speed
 Preset dynamic color macro with variable speed
 Each head with strip effect with different built-in macros
 (variable speed control)
 0-100% Smooth linear LED dimming
 1-25Hz shutter/strobe effect with variable speed
 Preset pulse strobe effect with variable speed
 Random strobe effect with variable speed
 22/59/85/134 DMX channels USITT DMX-512
 DMX512, master-slave, sound activated or auto operation
 DMX recorder and edit function integrated
 RDM available (Remote Device Management)
 Shielded input signal protection for stable signal without interference
 3-Pin XLR connectors IN/OUT
 Electronic supply with active PFC
 AC100-240V 50/60Hz
 PowerCON IN/OUT with fuse
 640W Power consumption
 -25°C to 45°C ambient temperature
 IP20 protection rating

| | | | |
|----|---------------------------------|-----------|---|
| 38 | TILT 8 | 000 - 255 | Mirror 8 positioning (Default REVERSE HEADS option OFF) |
| 39 | Red 1 | 000 - 255 | Red 1 |
| 40 | Green 1 | 000 - 255 | Green 1 |
| 41 | Blue 1 | 000 - 255 | Blue 1 |
| 42 | White 1 | 000 - 255 | White 1 |
| 43 | Red 2 | 000 - 255 | Red 2 |
| 44 | Green 2 | 000 - 255 | Green 2 |
| 45 | Blue 2 | 000 - 255 | Blue 2 |
| 46 | White 2 | 000 - 255 | White 2 |
| 47 | Red 3 | 000 - 255 | Red 3 |
| 48 | Green 3 | 000 - 255 | Green 3 |
| 49 | Blue 3 | 000 - 255 | Blue 3 |
| 50 | White 3 | 000 - 255 | White 3 |
| 51 | Red 4 | 000 - 255 | Red 4 |
| 52 | Green 4 | 000 - 255 | Green 4 |
| 53 | Blue 4 | 000 - 255 | Blue 4 |
| 54 | White 4 | 000 - 255 | White 4 |
| 55 | Red 5 | 000 - 255 | Red 5 |
| 56 | Green 5 | 000 - 255 | Green 5 |
| 57 | Blue 5 | 000 - 255 | Blue 5 |
| 58 | White 5 | 000 - 255 | White 5 |
| 59 | Red 6 | 000 - 255 | Red 6 |
| 60 | Green 6 | 000 - 255 | Green 6 |
| 61 | Blue 6 | 000 - 255 | Blue 6 |
| 62 | White 6 | 000 - 255 | White 6 |
| 63 | Red 7 | 000 - 255 | Red 7 |
| 64 | Green 7 | 000 - 255 | Green 7 |
| 65 | Blue 7 | 000 - 255 | Blue 7 |
| 66 | White 7 | 000 - 255 | White 7 |
| 67 | Red 8 | 000 - 255 | Red 8 |
| 68 | Green 8 | 000 - 255 | Green 8 |
| 69 | Blue 8 | 000 - 255 | Blue 8 |
| 70 | White 8 | 000 - 255 | White 8 |
| 71 | 360° Continuous TILT 1 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 72 | 360° Continuous TILT 2 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 73 | 360° Continuous TILT 3 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 74 | 360° Continuous TILT 4 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 75 | 360° Continuous TILT 5 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |

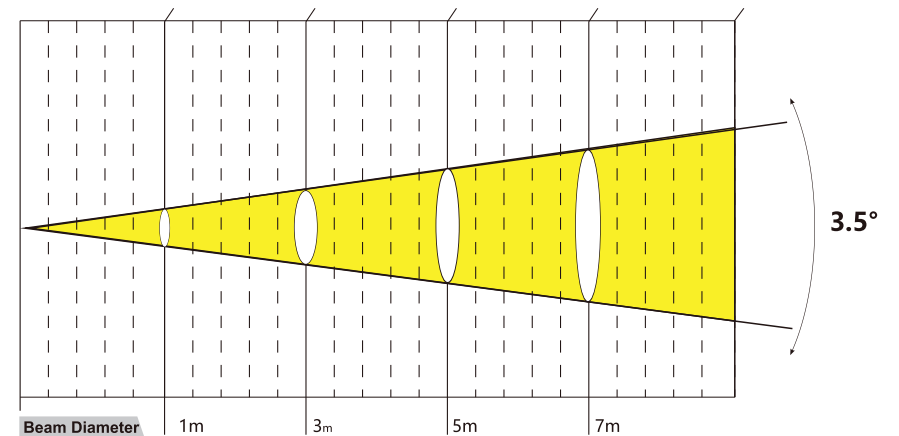
| | | | |
|----|----------------------|-----------|--|
| | PRESEHEADPOSITION | 128 - 143 | Presetheadposition9 |
| | | 144 - 159 | Presetheadposition0 |
| | | 160 - 175 | Presetheadposition1 |
| | | 176 - 191 | Presetheadposition2 |
| | | 192 - 207 | Presetheadposition3 |
| | | 208 - 223 | Presetheadposition4 |
| | | 224 - 239 | Presetheadposition5 |
| | | 240 - 255 | Presetheadposition6 |
| 19 | SHAPE RED | 000 - 255 | Linear 0 - 100% |
| 20 | SHAPE GREEN | 000 - 255 | Linear 0 - 100% |
| 21 | SHAPE BLUE | 000 - 255 | Linear 0 - 100% |
| 22 | SHAPE WHITE | 000 - 255 | Linear 0 - 100% |
| 23 | FOREGROUND CTO - TBD | 000 - 255 | TBD |
| 24 | FOREGROUND SHUTTER | 000 - 003 | Light OFF |
| | | 004 - 103 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 104 - 107 | Light ON |
| | | 108 - 207 | Pulsation frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 208 - 212 | Light ON |
| | | 213 - 225 | Random Strobe at slow frequency |
| | | 226 - 238 | Random Strobe at medium frequency |
| | | 239 - 251 | Random Strobe at fast frequency |
| | | 252 - 255 | Light ON |
| 25 | FOREGROUND DIMMER | 000 - 255 | Linear Dimmer 0 - 100% |
| 26 | PATTERN MODE | 000 - 005 | Normal |
| | | 006 - 130 | Static |
| | | 131 - 255 | Dynamic |
| 27 | PATTERN SELECTION | 000 - 007 | Effect 1 |
| | | ... | ... |
| | | 255 | Effect XXX |
| 28 | PATTERN SPEED | 000 - 255 | Indexing |
| | | 000 - 124 | Speed control fast to slow, forward |
| | | 125 - 130 | Stop |
| | | 131 - 255 | Speed control slow to fast, Backward |
| 29 | PATTERN FADE | 000 - 127 | Fade In/Out |
| | | 128 - 255 | Fade Out |
| 30 | PATTERN TRANSITION | 000 - 255 | Crossfade between layers/pattern (0: instant transition - 255: 3 seconds transition) |
| 31 | TILT 1 | 000 - 255 | Mirror 1 positioning (Default REVERSE HEADS option OFF) |
| 32 | TILT 2 | 000 - 255 | Mirror 2 positioning (Default REVERSE HEADS option OFF) |
| 33 | TILT 3 | 000 - 255 | Mirror 3 positioning (Default REVERSE HEADS option OFF) |
| 34 | TILT 4 | 000 - 255 | Mirror 4 positioning (Default REVERSE HEADS option OFF) |
| 35 | TILT 5 | 000 - 255 | Mirror 5 positioning (Default REVERSE HEADS option OFF) |
| 36 | TILT 6 | 000 - 255 | Mirror 6 positioning (Default REVERSE HEADS option OFF) |
| 37 | TILT 7 | 000 - 255 | Mirror 7 positioning (Default REVERSE HEADS option OFF) |



4 PHOTOMETRIC DATA

Photometric Beam Angle Data 3.5° Beam Angle $LUX \times 0.0929 = FC$

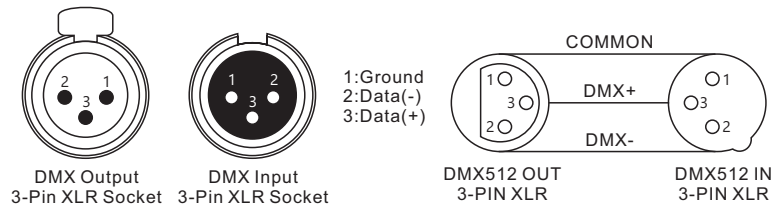
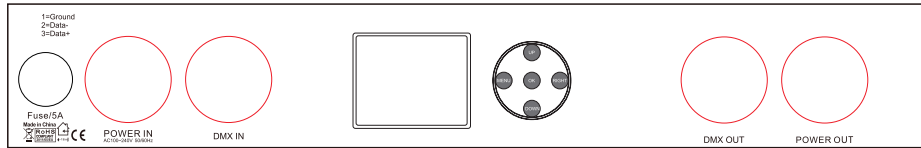
| | | | | |
|-------------|------|------|-----|-----------|
| R | 1600 | 206 | 80 | 42 |
| G | 3860 | 520 | 195 | 102 |
| B | 144 | 20 | 8 | 4 |
| W | 4673 | 647 | 239 | 124 |
| RGBW | 9640 | 1278 | 487 | 256 (LUX) |



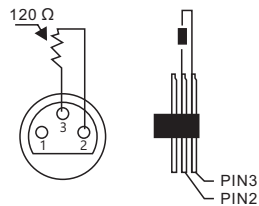
5 DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX-512 connection with DMX terminator



For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



| 134CH | Function | Dmx Value | Description |
|-------|--------------------|-----------|--|
| 1 | RED | 000 - 255 | Linear 0 -100% |
| 2 | RED FINE | 000 - 255 | Linear Fine Red (16 Bit) |
| 3 | GREEN | 000 - 255 | Linear 0 -100% |
| 4 | GREEN FINE | 000 - 255 | Linear Fine Green (16 Bit) |
| 5 | BLUE | 000 - 255 | Linear 0 -100% |
| 6 | BLUE FINE | 000 - 255 | Linear Fine Blue (16 Bit) |
| 7 | WHITE | 000 - 255 | Linear 0 -100% |
| 8 | WHITE FINE | 000 - 255 | Linear Fine White (16 Bit) |
| 9 | CTO | 000 - 009 | CTO Off |
| | | 010 - 255 | 8000K to 2500K |
| 10 | MACRO COLOUR | 000 - 255 | MACRO COLOUR |
| 11 | BACKGROUND SHUTTER | 000 - 003 | Light OFF |
| | | 004 - 103 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 104 - 107 | Light ON |
| | | 108 - 207 | Pulsation at linearly from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 208 - 212 | Light ON |
| | | 213 - 225 | Random Strobe at low frequency |
| | | 226 - 238 | Random Strobe at medium frequency |
| | | 239 - 251 | Random Strobe at high frequency |
| | | 252 - 255 | Light ON |
| | | 12 | BACKGROUND DIMMER |
| 13 | MASTER SHUTTER | 000 - 003 | Light OFF |
| | | 004 - 103 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 104 - 107 | Light ON |
| | | 108 - 207 | Pulsation frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 208 - 212 | Light ON |
| | | 213 - 225 | Random Strobe at low frequency |
| | | 226 - 238 | Random Strobe at medium frequency |
| | | 239 - 251 | Random Strobe at high frequency |
| | | 252 - 255 | Light ON |
| | | 14 | MASTER DIMMER |
| 15 | MASTER DIMMER FINE | 000 - 255 | Fine Dimmer (16 bit) |
| 16 | FUNCTION | 000 - 255 | FUNCTION |
| 17 | RESET | 000 - 025 | Unused Range |
| | | 026 - 127 | Tilt Reset |
| | | 128 - 255 | Complete Reset |
| 18 | PRESETHADPOSITION | 0 | No Function |
| | | 001 - 015 | Presethadposition1 |
| | | 016 - 031 | Presethadposition2 |
| | | 032 - 047 | Presethadposition3 |
| | | 048 - 063 | Presethadposition4 |
| | | 064 - 079 | Presethadposition5 |
| | | 080 - 095 | Presethadposition6 |
| | | 096 - 111 | Presethadposition7 |
| | | 112 - 127 | Presethadposition8 |

| | | | |
|----|---------------------------------|-----------|---|
| 63 | Red 7 | 000 - 255 | Red 7 |
| 64 | Green 7 | 000 - 255 | Green 7 |
| 65 | Blue 7 | 000 - 255 | Blue 7 |
| 66 | White 7 | 000 - 255 | White 7 |
| 67 | Red 8 | 000 - 255 | Red 8 |
| 68 | Green 8 | 000 - 255 | Green 8 |
| 69 | Blue 8 | 000 - 255 | Blue 8 |
| 70 | White 8 | 000 - 255 | White 8 |
| 71 | 360° Continuous TILT 1 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 72 | 360° Continuous TILT 2 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 73 | 360° Continuous TILT 3 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 74 | 360° Continuous TILT 4 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 75 | 360° Continuous TILT 5 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 76 | 360° Continuous TILT 6 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 77 | 360° Continuous TILT 7 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 78 | 360° Continuous TILT 8 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 79 | DIMMER (STRIP LIGHT) | 0 - 255 | Linear Dimmer 0 – 100% |
| 80 | SHUTTER (STRIP LIGHT) | 0 - 255 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| 81 | RED (STRIP LIGHT) | 0 - 255 | Linear 0 -100% |
| 82 | GREEN (STRIP LIGHT) | 0 - 255 | Linear 0 -100% |
| 83 | BLUE (STRIP LIGHT) | 0 - 255 | Linear 0 -100% |
| 84 | EFFECT (STRIP LIGHT) | 0 - 255 | Dynamic effect options |
| 85 | Speed (STRIP LIGHT) | 0 - 255 | Speed control of dynamic effect |

6 MENU OPERATIONS

| Main Menu | Second | Third | Fourth |
|---------------|------------------|---|-----------|
| Dmx Address | 000 - 512 | | |
| Fixture | Dmx Mode | 22CH/59CH/85CH/134CH | |
| | Run Mode | DMX / Host | |
| | Tilt Invert | Close / Open | |
| | No Dmx Signal | Clear / Hold | |
| | PT Calibrate | Close / Open | |
| | Frequency | 900/1000/1100/1200/1300/1400/1500/2500/4000/5000/6000/10000/15000/20000/25000Hz | |
| Manual | Sound Control | 1 -- 99 | |
| | Pan | 000 - 255 | |
| | Pan Fine | 000 - 255 | |
| | Tilt | 000 - 255 | |
| | Tilt Fine | 000 - 255 | |
| ... | ... | | |
| Information | Time | Current Time | xxxH |
| | | Total Time | xxxH |
| | Sensor | All Sensor are ok! | |
| | | Temperature | Head Temp |
| | Software Version | Panel | Vx.xx |
| | | Motor | Vx.xx |
| Factory | Password | 000 - 255 | |
| | Tilt1 | 000 - 255 | |
| | Tilt2 | 000 - 255 | |
| | Tilt3 | 000 - 255 | |
| | Tilt4 | 000 - 255 | |
| | Tilt5 | 000 - 255 | |
| | Tilt6 | 000 - 255 | |
| | Tilt7 | 000 - 255 | |
| | Tilt8 | 000 - 255 | |
| | Red1 | 000 - 255 | |
| | Green1 | 000 - 255 | |
| | Blue1 | 000 - 255 | |
| | White1 | 000 - 255 | |
| | ... | ... | |
| | Red8 | 000 - 255 | |
| | Green8 | 000 - 255 | |
| | Blue8 | 000 - 255 | |
| White8 | 000 - 255 | | |
| Fixture Reset | Motor Reset | Cancel / Run | |
| | Factory | Cancel / Run | |
| Display | Language | CH / EN | |
| | Display Flip | Normal / Reverse | |
| | Display Mode | 60s / Show | |

7 DMX CHANNELS

| 22CH | Function | Dmx Value | Description |
|------|-------------------------------|-----------|--|
| 1 | TILT | 000 - 255 | 0-270° TILT movement |
| 2 | TILT FINE | 000 - 255 | Fine control of TILT movement |
| 3 | 360° Continuous TILT Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 4 | SPEED | 000 - 255 | Speed control of TILT movement |
| 5 | DIMMER | 000 - 255 | Linear Dimmer 0 – 100% |
| 6 | MASTER SHUTTER | 000- 003 | Light OFF |
| | | 004 - 103 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 104 - 107 | Light ON |
| | | 108 - 207 | Pulsation frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 208 - 212 | Light ON |
| | | 213 - 225 | Random Strobe at low frequency |
| | | 226 - 238 | Random Strobe at medium frequency |
| | | 239 - 251 | Random Strobe at high frequency |
| | | 252 - 255 | Light ON |
| 7 | RED | 000 - 255 | Linear 0 -100% |
| 8 | GREEN | 000 - 255 | Linear 0 -100% |
| 9 | BLUE | 000 - 255 | Linear 0 -100% |
| 10 | WHITE | 000 - 255 | Linear 0 -100% |
| 11 | MACRO COLOUR | 000 - 255 | MACRO COLOUR |
| 12 | CTO | 000 - 009 | CTO Off |
| | | 010 - 255 | 8000K to 2500K |
| 13 | EFFECT | 000 - 255 | Dynamic effect options |
| 14 | EFFECT SPEED | 000 - 255 | Speed control of dynamic effect |
| 15 | RESET | 000 - 025 | Unused Range |
| | | 026 - 255 | Complete Reset (5s) |
| 16 | DIMMER (STRIP LIGHT) | 000 - 255 | Linear Dimmer 0 – 100% |
| 17 | SHUTTER (STRIP LIGHT) | 000 - 255 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| 18 | RED (STRIP LIGHT) | 000 - 255 | Linear 0 -100% |
| 19 | GREEN (STRIP LIGHT) | 000 - 255 | Linear 0 -100% |
| 20 | BLUE (STRIP LIGHT) | 000 - 255 | Linear 0 -100% |
| 21 | EFFECT (STRIP LIGHT) | 000 - 255 | Dynamic effect options |
| 22 | Speed (STRIP LIGHT) | 000 - 255 | Speed control of dynamic effect |

| | | | |
|----|--------------------|-----------|--|
| 28 | PATTERN SPEED | 000 - 255 | Indexing |
| | | 000 - 124 | Speed control fast to slow, forward |
| | | 125 - 130 | Stop |
| | | 131 - 255 | Speed control slow to fast, Backward |
| 29 | PATTERN FADE | 000 - 127 | Fade In/Out |
| | | 128 -255 | Fade Out |
| 30 | PATTERN TRANSITION | 000 - 255 | Crossfade between layers/pattern (0: instant transition - 255: 3 seconds transition) ONLY ON LAYER MODE |
| 31 | TILT 1 | 000 - 255 | Mirror 1 positioning (Default REVERSE HEADS option OFF) |
| 32 | TILT 2 | 000 - 255 | Mirror 2 positioning (Default REVERSE HEADS option OFF) |
| 33 | TILT 3 | 000 - 255 | Mirror 3 positioning (Default REVERSE HEADS option OFF) |
| 34 | TILT 4 | 000 - 255 | Mirror 4 positioning (Default REVERSE HEADS option OFF) |
| 35 | TILT 5 | 000 - 255 | Mirror 5 positioning (Default REVERSE HEADS option OFF) |
| 36 | TILT 6 | 000 - 255 | Mirror 6 positioning (Default REVERSE HEADS option OFF) |
| 37 | TILT 7 | 000 - 255 | Mirror 7 positioning (Default REVERSE HEADS option OFF) |
| 38 | TILT 8 | 000 - 255 | Mirror 8 positioning (Default REVERSE HEADS option OFF) |
| 39 | Red 1 | 000 - 255 | Red 1 |
| 40 | Green 1 | 000 - 255 | Green 1 |
| 41 | Blue 1 | 000 - 255 | Blue 1 |
| 42 | White 1 | 000 - 255 | White 1 |
| 43 | Red 2 | 000 - 255 | Red 2 |
| 44 | Green 2 | 000 - 255 | Green 2 |
| 45 | Blue 2 | 000 - 255 | Blue 2 |
| 46 | White 2 | 000 - 255 | White 2 |
| 47 | Red 3 | 000 - 255 | Red 3 |
| 48 | Green 3 | 000 - 255 | Green 3 |
| 49 | Blue 3 | 000 - 255 | Blue 3 |
| 50 | White 3 | 000 - 255 | White 3 |
| 51 | Red 4 | 000 - 255 | Red 4 |
| 52 | Green 4 | 000 - 255 | Green 4 |
| 53 | Blue 4 | 000 - 255 | Blue 4 |
| 54 | White 4 | 000 - 255 | White 4 |
| 55 | Red 5 | 000 - 255 | Red 5 |
| 56 | Green 5 | 000 - 255 | Green 5 |
| 57 | Blue 5 | 000 - 255 | Blue 5 |
| 58 | White 5 | 000 - 255 | White 5 |
| 59 | Red 6 | 000 - 255 | Red 6 |
| 60 | Green 6 | 000 - 255 | Green 6 |
| 61 | Blue 6 | 000 - 255 | Blue 6 |
| 62 | White 6 | 000 - 255 | White 6 |

| | | | |
|-----------|-------------------------|-----------|--|
| 18 | PRESET HEAD POSITION | 0 | No Function |
| | | 001 - 015 | Preset head position 1 |
| | | 016 - 031 | Preset head position 2 |
| | | 032 - 047 | Preset head position 3 |
| | | 048 - 063 | Preset head position 4 |
| | | 064 - 079 | Preset head position 5 |
| | | 080 - 095 | Preset head position 6 |
| | | 096 - 111 | Preset head position 7 |
| | | 112 - 127 | Preset head position 8 |
| | | 128 - 143 | Preset head position 9 |
| | | 144 - 159 | Preset head position 10 |
| | | 160 - 175 | Preset head position 11 |
| | | 176 - 191 | Preset head position 12 |
| | | 192 - 207 | Preset head position 13 |
| | | 208 - 223 | Preset head position 14 |
| | | 224 - 239 | Preset head position 15 |
| 240 - 255 | Preset head position 16 | | |
| 19 | SHAPE RED | 000 - 255 | Linear 0 – 100% |
| 20 | SHAPE GREEN | 000 - 255 | Linear 0 – 100% |
| 21 | SHAPE BLUE | 000 - 255 | Linear 0 – 100% |
| 22 | SHAPE WHITE | 000 - 255 | Linear 0 – 100% |
| 23 | FOREGROUND CTO – TBD | 000 - 255 | TBD |
| 24 | FOREGROUND SHUTTER | 000 - 003 | Light OFF |
| | | 004 - 103 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 104 - 107 | Light ON |
| | | 108 - 207 | Pulsation frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 208 - 212 | Light ON |
| | | 213 - 225 | Random Strobe at slow frequency |
| | | 226 - 238 | Random Strobe at medium frequency |
| | | 239 - 251 | Random Strobe at fast frequency |
| | | 252 - 255 | Light ON |
| 25 | FOREGROUND DIMMER | 000 - 255 | Linear Dimmer 0 – 100% |
| 26 | PATTERN MODE | 000 - 005 | Normal |
| | | 006 - 130 | Static |
| | | 131 - 255 | Dynamic |
| 27 | PATTERN SELECTION | 000 - 007 | Effect 1 |
| | | ... | ... |
| | | 255 | Effect XXX |

| 59CH | Function | Dmx Value | Description |
|-----------|-------------------------|-----------|--|
| 1 | RED | 000 - 255 | Linear 0 -100% |
| 2 | GREEN | 000 - 255 | Linear 0 -100% |
| 3 | BLUE | 000 - 255 | Linear 0 -100% |
| 4 | WHITE | 000 - 255 | Linear 0 -100% |
| 5 | CTO | 000 - 009 | CTO Off |
| | | 010 - 255 | 8000K to 2500K |
| 6 | MACRO COLOUR | 000 - 255 | MACRO COLOUR |
| 7 | MASTER SHUTTER | 000 - 003 | Light OFF |
| | | 004 - 103 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 104 - 107 | Light ON |
| | | 108 - 207 | Pulsation frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 208 - 212 | Light ON |
| | | 213 - 225 | Random Strobe at low frequency |
| | | 226 - 238 | Random Strobe at medium frequency |
| | | 239 - 251 | Random Strobe at high frequency |
| | | 252 - 255 | Light ON |
| | | 8 | MASTER DIMMER |
| 9 | MASTER DIMMER FINE | 000 - 255 | Fine Dimmer (16 bit) |
| 10 | FUNCTION | 000 - 255 | FUNCTION |
| 11 | RESET | 026 - 127 | Tilt Reset |
| | | 128 - 255 | Complete Reset |
| 12 | PRESET HEAD POSITION | 0 | No Function |
| | | 001 - 015 | Preset head position 1 |
| | | 016 - 031 | Preset head position 2 |
| | | 032 - 047 | Preset head position 3 |
| | | 048 - 063 | Preset head position 4 |
| | | 064 - 079 | Preset head position 5 |
| | | 080 - 095 | Preset head position 6 |
| | | 096 - 111 | Preset head position 7 |
| | | 112 - 127 | Preset head position 8 |
| | | 128 - 143 | Preset head position 9 |
| | | 144 - 159 | Preset head position 10 |
| | | 160 - 175 | Preset head position 11 |
| | | 176 - 191 | Preset head position 12 |
| | | 192 - 207 | Preset head position 13 |
| | | 208 - 223 | Preset head position 14 |
| | | 224 - 239 | Preset head position 15 |
| 240 - 255 | Preset head position 16 | | |

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|----|---------------------------------|-----------|---|
| 13 | TILT 1 | 000 - 255 | Mirror 1 positioning (Default REVERSE HEADS option OFF) |
| 14 | TILT 2 | 000 - 255 | Mirror 2 positioning (Default REVERSE HEADS option OFF) |
| 15 | TILT 3 | 000 - 255 | Mirror 3 positioning (Default REVERSE HEADS option OFF) |
| 16 | TILT 4 | 000 - 255 | Mirror 4 positioning (Default REVERSE HEADS option OFF) |
| 17 | TILT 5 | 000 - 255 | Mirror 5 positioning (Default REVERSE HEADS option OFF) |
| 18 | TILT 6 | 000 - 255 | Mirror 6 positioning (Default REVERSE HEADS option OFF) |
| 19 | TILT 7 | 000 - 255 | Mirror 7 positioning (Default REVERSE HEADS option OFF) |
| 20 | TILT 8 | 000 - 255 | Mirror 8 positioning (Default REVERSE HEADS option OFF) |
| 21 | Red 1 | 000 - 255 | Red 1 |
| 22 | Green 1 | 000 - 255 | Green 1 |
| 23 | Blue 1 | 000 - 255 | Blue 1 |
| 24 | Red 2 | 000 - 255 | Red 2 |
| 25 | Green 2 | 000 - 255 | Green 2 |
| 26 | Blue 2 | 000 - 255 | Blue 2 |
| 27 | Red 3 | 000 - 255 | Red 3 |
| 28 | Green 3 | 000 - 255 | Green 3 |
| 29 | Blue 3 | 000 - 255 | Blue 3 |
| 30 | Red 4 | 000 - 255 | Red 4 |
| 31 | Green 4 | 000 - 255 | Green 4 |
| 32 | Blue 4 | 000 - 255 | Blue 4 |
| 33 | Red 5 | 000 - 255 | Red 5 |
| 34 | Green 5 | 000 - 255 | Green 5 |
| 35 | Blue 5 | 000 - 255 | Blue 5 |
| 36 | Red 6 | 000 - 255 | Red 6 |
| 37 | Green 6 | 000 - 255 | Green 6 |
| 38 | Blue 6 | 000 - 255 | Blue 6 |
| 39 | Red 7 | 000 - 255 | Red 7 |
| 40 | Green 7 | 000 - 255 | Green 7 |
| 41 | Blue 7 | 000 - 255 | Blue 7 |
| 42 | Red 8 | 000 - 255 | Red 8 |
| 43 | Green 8 | 000 - 255 | Green 8 |
| 44 | Blue 8 | 000 - 255 | Blue 8 |
| 45 | 360° Continuous TILT 1 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 46 | 360° Continuous TILT 2 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 47 | 360° Continuous TILT 3 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 48 | 360° Continuous TILT 4 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 49 | 360° Continuous TILT 5 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 50 | 360° Continuous TILT 6 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 51 | 360° Continuous TILT 7 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 52 | 360° Continuous TILT 8 Rotation | 000 - 003 | No Function |
| | | 004 - 129 | Forward rotation from fast to slow |
| | | 130 - 255 | Backward rotation from slow to fast |
| 53 | DIMMER (STRIP LIGHT) | 000 - 255 | Linear Dimmer 0 – 100% |
| 54 | SHUTTER (STRIP LIGHT) | 000 - 255 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| 55 | RED (STRIP LIGHT) | 000 - 255 | Linear 0 -100% |
| 56 | GREEN (STRIP LIGHT) | 000 - 255 | Linear 0 -100% |
| 57 | BLUE (STRIP LIGHT) | 000 - 255 | Linear 0 -100% |
| 58 | EFFECT (STRIP LIGHT) | 000 - 255 | Dynamic effect options |
| 59 | Speed (STRIP LIGHT) | 000 - 255 | Speed control of dynamic effect |

| 85CH | Function | Dmx Value | Description |
|------|--------------------|-----------|--|
| 1 | RED | 000 - 255 | Linear 0 -100% |
| 2 | RED FINE | 000 - 255 | Linear Fine Red (16 Bit) |
| 3 | GREEN | 000 - 255 | Linear 0 -100% |
| 4 | GREEN FINE | 000 - 255 | Linear Fine Green (16 Bit) |
| 5 | BLUE | 000 - 255 | Linear 0 -100% |
| 6 | BLUE FINE | 000 - 255 | Linear Fine Blue (16 Bit) |
| 7 | WHITE | 000 - 255 | Linear 0 -100% |
| 8 | WHITE FINE | 000 - 255 | Linear Fine White (16 Bit) |
| 9 | CTO | 000 - 009 | CTO Off |
| | | 010 - 255 | 8000K to 2500K |
| 10 | MACRO COLOUR | 000 - 255 | MACRO COLOUR |
| 11 | BACKGROUND SHUTTER | 000 - 003 | Light OFF |
| | | 004 - 103 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 104 - 107 | Light ON |
| | | 108 - 207 | Pulsation at linearly from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 208 - 212 | Light ON |
| | | 213 - 225 | Random Strobe at low frequency |
| | | 226 - 238 | Random Strobe at medium frequency |
| | | 239 - 251 | Random Strobe at high frequency |
| | | 252 - 255 | Light ON |
| 12 | BACKGROUND DIMMER | 000 - 255 | Linear Dimmer 0 – 100% |
| 13 | MASTER SHUTTER | 000 - 003 | Light OFF |
| | | 004 - 103 | Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 104 - 107 | Light ON |
| | | 108 - 207 | Pulsation frequency from slow (1 flash/sec) to fast (25 flash/sec) |
| | | 208 - 212 | Light ON |
| | | 213 - 225 | Random Strobe at low frequency |
| | | 226 - 238 | Random Strobe at medium frequency |
| | | 239 - 251 | Random Strobe at high frequency |
| | | 252 - 255 | Light ON |
| 14 | MASTER DIMMER | 000 - 255 | Linear Dimmer 0 – 100% |
| 15 | MASTER DIMMER FINE | 000 - 255 | Fine Dimmer (16 bit) |
| 16 | FUNCTION | 000 - 255 | FUNCTION |
| 17 | RESET | 000 - 025 | Unused Range |
| | | 026 - 127 | Tilt Reset |
| | | 128 - 255 | Complete Reset |