



The Fixture has one single operating mode that take 39 DMX channels.

DMX PROTOCOL








| <i>DMX Parameter number</i> | <i>FUNCTION</i> |
|-------------------------------------|---------------------------|
| 1 | CYAN |
| 2 | MAGENTA |
| 3 | YELLOW |
| 4 | CTO |
| 5 | COLOR FUNCTION |
| 6 | COLOR WHEEL |
| 7 | STROBE |
| 8 | DIMMER |
| 9 | DIMMER FINE |
| 10 | IRIS |
| 11 | STATIC GOBO WHEEL |
| 12 | ROTATING GOBO INSERTION |
| 13 | GOBO ROTATION |
| 14 | GOBO ROTATION FINE |
| 15 | PRISM INSERTION |
| 16 | PRISM ROTATION |
| 17 | ANIMATION WHEEL INSERTION |
| 18 | ANIMATION WHEEL ROTATION |
| 19 | FROST 1 |
| 20 | FROST 2 |







| <i>DMX Parameter number</i> | <i>FUNCTION</i> |
|-------------------------------------|----------------------------|
| 21 | FOCUS |
| 22 | ZOOM |
| 23 | FRAMING BLADE 1 MOVEMENT |
| 24 | FRAMING BLADE 1 SWIVELLING |
| 25 | FRAMING BLADE 2 MOVEMENT |
| 26 | FRAMING BLADE 2 SWIVELLING |
| 27 | FRAMING BLADE 3 MOVEMENT |
| 28 | FRAMING BLADE 3 SWIVELLING |
| 29 | FRAMING BLADE 4 MOVEMENT |
| 30 | FRAMING BLADE 4 SWIVELLING |
| 31 | FRAMING ROTATION |
| 32 | FRAMING MACRO |
| 33 | FRAMING MACRO SPEED |
| 34 | PAN |
| 35 | PAN FINE |
| 36 | TILT |
| 37 | TILT FINE |
| 38 | RESET |
| 39 | FUNCTION |
| - | - |

| <i>DMX Parameter</i> | <i>Bit Values</i> | <i>Function</i> |
|----------------------|-------------------|--|
| 1 | 000 – 255 | CYAN |
| | | Linear 0 – 100% from white to full (Colour Mixing → CMY) |
| | | Linear 0 – 100% from full to white (Colour Mixing → RGB) |
| 2 | 000 – 255 | MAGENTA |
| | | Linear 0 – 100% from white to full (Colour Mixing → CMY) |
| | | Linear 0 – 100% from full to white (Colour Mixing → RGB) |
| 3 | 000 – 255 | YELLOW |
| | | Linear 0 – 100% from white to full (Colour Mixing → CMY) |
| | | Linear 0 – 100% from full to white (Colour Mixing → RGB) |
| 4 | 000 – 255 | CTO |
| | | Linear 0 – 100% from white to CT |
| 5 | | COLOUR FUNCTION |
| | 000 – 085 | Full Colour |
| | 086 – 170 | Half Colour |
| | 171 – 255 | Linear Path |

| DMX Parameter | Bit Values | Function |
|----------------------|-------------------------------|-------------------------------|
| 6 | | COLOR WHEEL |
| | | FULL COLOR |
| | 000 – 009 | White |
| | 010 – 019 | Dark Red |
| | 020 – 029 | Brilliant Blue |
| | 030 – 039 | Deep Green |
| | 040 – 049 | CRI-4 |
| | 050 – 059 | Dark Orange |
| | 060 – 069 | Navy Blue |
| | 070 – 127 | CW rotation slow to fast |
| | 128 – 255 | Linear color insertion. |
| | | HALF COLOR |
| | 000 – 004 | White |
| | 005 – 009 | Empty + Dark Red |
| | 010 – 014 | Dark Red |
| | 015 – 019 | Dark Red + Brilliant Blue |
| | 020 – 024 | Brilliant Blue |
| | 025 – 029 | Brilliant Blue + Deep Green |
| | 030 – 034 | Deep Green |
| | 035 – 039 | Deep Green + CRI-4 |
| | 040 – 044 | CRI-4 |
| | 045 – 049 | CRI-4 + Dark Orange |
| | 050 – 054 | Dark Orange |
| | 055 – 059 | Dark Orange + Navy Blue |
| | 060 – 064 | Navy Blue |
| | 065 – 069 | Navy Blue + Empty |
| | 070 – 127 | CW rotation from slow to fast |
| | 128 – 255 | Linear color insertion. |
| | | LINEAR PATH |
| | 000 – 009 | White |
| | 010 – 019 | Dark Red |
| | 020 – 029 | Brilliant Blue |
| | 030 – 039 | Deep Green |
| | 040 – 049 | CRI-4 |
| | 050 – 059 | Dark Orange |
| | 060 – 064 | Navy Blue |
| 065 – 069 | Whit | |
| 070 – 127 | CW rotation from slow to fast | |
| 128 – 255 | Linear color insertion | |

| <i>DMX Parameter</i> | <i>Bit Values</i> | <i>Function</i> |
|----------------------|-------------------|--|
| 7 | | STROBE |
| | 000 – 003 | Closed |
| | 004 – 103 | Linear Strobe from slow (1 flash/sec) to fast (25 flashes/sec) |
| | 104 – 107 | Open |
| | 108 – 207 | Linear Pulse from slow to fast |
| | 208 – 212 | Open |
| | 213 – 225 | Random Strobe at low frequency |
| | 226 – 238 | Random Strobe at medium frequency |
| | 239 – 251 | Random Strobe at high frequency |
| | 252 – 255 | Open |
| 8 | 000 – 255 | DIMMER Linear Dimmer 0-100% |
| 9 | 000 – 255 | DIMMER FINE (16 bit) |
| 10 | | IRIS |
| | 000 – 127 | Linear Open from Min. to Max. |
| | 128 – 131 | Open |
| | 132 – 171 | Pulse from slow to fast |
| | 172 – 211 | Pulse from slow to fast - instant opening |
| | 212 – 251 | Pulse from slow to fast - instant closing |
| | | 252 – 255 |

| <i>DMX Parameter</i> | <i>Bit Values</i> | <i>Function</i> |
|----------------------|---------------------------------|--|
| 11 | | STATIC GOBO WHEEL |
| | 000 - 008 | Open |
| | 009 - 017 | Gobo 1  |
| | 018 - 026 | Gobo 2  |
| | 027 - 035 | Gobo 3  |
| | 036 - 044 | Gobo 4  |
| | 045 - 053 | Gobo 5  |
| | 054 - 062 | Gobo 6  |
| | 063 - 071 | Gobo 7  |
| | 072 - 113 | Linear CCW wheel rotation from fast to slow |
| | 114 - 117 | Stop |
| | 118 - 159 | Linear CW wheel rotation from slow to fast |
| | 160 - 173 | Gobo 1 shakes from slow to fast |
| | 174 - 187 | Gobo 2 shakes from slow to fast |
| | 188 - 200 | Gobo 3 shakes from slow to fast |
| | 201 - 214 | Gobo 4 shakes from slow to fast |
| | 215 - 227 | Gobo 5 shakes from slow to fast |
| 228 - 241 | Gobo 6 shakes from slow to fast | |
| 242 - 255 | Gobo 7 shakes from slow to fast | |

| DMX Parameter | Bit Values | Function |
|---------------|------------|--|
| 12 | | ROTATING GOBO WHEEL |
| | 000 – 010 | Open |
| | 011 – 020 | Gobo 1  |
| | 021 – 030 | Gobo 2  |
| | 031 – 040 | Gobo 3  |
| | 041 – 050 | Gobo 4  |
| | 051 – 060 | Gobo 5  |
| | 061 – 071 | Gobo 6  |
| | 072 – 113 | Linearly CW wheel rotation from fast to slow |
| | 114 – 117 | Stop |
| | 118 – 159 | Linearly CCW wheel rotation from slow to fast |
| | 160 – 175 | Gobo 1 shakes from slow to fast |
| | 176 – 191 | Gobo 2 shakes from slow to fast |
| | 192 – 207 | Gobo 3 shakes from slow to fast |
| | 208 – 223 | Gobo 4 shakes from slow to fast |
| | 224 – 239 | Gobo 5 shakes from slow to fast |
| | 240 -- 255 | Gobo 6 shakes from slow to fast |
| 13 | | GOBO ROTATION |
| | 000 – 127 | Index 0° - 540 |
| | 128 – 190 | Linear CW rotation from fast to slow |
| | 191 – 192 | Stop |
| | 193 – 255 | Linear CCW rotation from slow to fast |

| DMX Parameter | Bit Values | Function |
|----------------------|-------------------|---|
| 14 | 000 – 255 | FINE GOBO ROTATION |
| 15 | | PRISM |
| | 000 – 127 | Open |
| | 128 – 255 | 4 facet Prism inserted |
| 16 | | PRISM ROTATION |
| | 000 – 127 | Index 0° - 540° |
| | 128 – 190 | Linear CW rotation from fast to slow |
| | 191 – 192 | Stop |
| | 193 – 255 | Linear CCW rotation from slow to fast |
| 17 | | ANIMATION WHEEL |
| | 000 – 007 | Open |
| | 008 – 255 | Linear insertion |
| 18 | | ANIMATION WHEEL ROTATION |
| | 000 – 003 | Stop |
| | 004 – 127 | Linear CCW rotation from slow to fast |
| | 128 – 131 | Stop |
| | 132 – 255 | Linear CW rotation from slow to fast |
| 19 | 000 – 255 | HEAVY FROST |
| 20 | 000 – 255 | LIGHT FROST |
| 21 | 000 – 255 | FOCUS |
| 22 | 000 – 255 | ZOOM Linear - narrow 000 wide 255 beam angle - 128 default setting |
| 23 | 000 – 255 | BLADE 1 - Linear Insertion |
| 24 | | BLADE 1 - Linear Swivelling |
| | 000 – 127 | Swivelling from - 25° to 0° |
| | 128 | 0° Default |
| | 129 – 255 | Swivelling from 0° to +25° |
| 25 | 000 – 255 | BLADE 2 - Linear Insertion |
| 26 | | BLADE 2 - Linear Swivelling |
| | 000 – 127 | Swivelling from - 25° to 0 |
| | 128 | 0° Default |
| | 129 – 255 | Swivelling from 0° to +25° |
| 27 | 000 – 255 | BLADE 3 - Linear Insertion |
| 28 | | BLADE 3 - Linear Swivelling |
| | 000 – 127 | Swivelling from - 25° to 0° |
| | 128 | 0° Default |
| | 129 – 255 | Swivelling from 0° to +25° |
| 29 | 000 – 255 | BLADE 4 - Linear Insertion |

| DMX Parameter | Bit Values | Function |
|----------------------|-------------------|------------------------------------|
| 30 | | BLADE 4 - Linear Swivelling |
| | 000 – 127 | Swivelling from - 25° to 0° |
| | 128 | 0° Default |
| | 129 – 255 | Swivelling from 0° to +25° |
| 31 | | FRAMING ROTATION |
| | 000 – 127 | Linear rotation CCW |
| | 128 | Middle |
| 32 | | FRAMING MACRO |
| | 000 – 003 | OFF |
| | 004 – 011 | Macro 1 |
| | 012 – 018 | Macro 2 |
| | 019 – 025 | Macro 3 |
| | 026 – 032 | Macro 4 |
| | 033 – 039 | Macro 5 |
| | 040 – 047 | Macro 6 |
| | 048 – 054 | Macro 7 |
| | 055 – 061 | Macro 8 |
| | 062 – 068 | Macro 9 |
| | 069 – 075 | Macro 10 |
| | 076 – 082 | Macro 11 |
| | 083 – 090 | Macro 12 |
| | 091 – 097 | Macro 13 |
| | 098 – 104 | Macro 14 |
| | 105 – 111 | Macro 15 |
| | 112 – 118 | Macro 16 |
| | 119 – 125 | Macro 17 |
| | 126 – 133 | Macro 18 |
| | 134 – 140 | Macro 19 |
| | 141 – 147 | Macro 20 |
| | 148 – 154 | Macro 21 |
| | 155 – 161 | Macro 22 |
| | 162 – 168 | Macro 23 |
| | 169 – 176 | Macro 24 |
| | 177 – 183 | Macro 25 |
| | 184 – 190 | Macro 26 |
| | 191 – 197 | Macro 27 |
| | 198 – 204 | Macro 28 |
| | 205 – 211 | Macro 29 |
| | 212 – 219 | Macro 30 |
| | 220 – 226 | Macro 31 |
| | 227 – 233 | Macro 32 |
| | 234 – 240 | Macro 33 |
| 241 – 247 | Macro 34 | |
| 248 – 255 | Macro 35 | |

| <i>DMX Parameter</i> | <i>Bit Values</i> | <i>Function</i> |
|----------------------|-------------------|---|
| 33 | 000 – 255 | FRAMING MACRO SPEED |
| | | Macro Speed from Slow to Fast |
| 34 | 000 – 255 | PAN |
| | | CCW Pan 0° - 540° (Invert Pan: On) |
| 35 | 000 – 255 | PAN FINE |
| 36 | 000 – 255 | TILT |
| 37 | 000 – 255 | TILT FINE |
| 38 | | RESET The reset is activated staying in the range for 5 seconds |
| | 000 – 025 | Unused range |
| | 026 – 076 | Effects reset |
| | 077 – 127 | Pan / Tilt reset |
| | 128 – 255 | Complete fixture reset |

| DMX Parameter | Bit Values | Function | |
|----------------------|--|--|---------------------------|
| 39 | | FUNCTION | |
| | 000 – 005 | Unused range | |
| | 006 – 011 | Led Frequency 600Hz | |
| | 012 – 017 | Led Frequency 1200Hz | |
| | 018 – 022 | Led Frequency 2000Hz | |
| | 023 – 028 | Led Frequency 4000Hz | |
| | 029 – 034 | Led Frequency 6000Hz | |
| | 035 – 040 | Led Frequency 20000Hz (Default) | |
| | 041 – 050 | Dimmer curve 1 (Default) | Details at page 11 |
| | 051 – 060 | Dimmer curve 2 | |
| | 061 – 070 | Dimmer curve 3 | |
| | 071 – 075 | Dimmer curve 4 | |
| | 076 – 080 | Dimmer curve 5 | |
| | 081 – 090 | Fan mode: 1200W Constant | |
| | 091 – 100 | Fan mode: 1200W Auto (Default) | |
| | 101 – 110 | Fan mode: 800W Constant | |
| | 111 – 120 | Fan mode: 800W Auto | |
| | 121 – 130 | Fan mode: 600W Constant | |
| | 131 – 140 | Fan mode: 600W Auto | |
| | 141 – 150 | Fan mode: SLN | |
| | 151 – 160 | Fan mode: Theatre | |
| | 161 – 170 | Unused range | |
| | 171 – 180 | P/T Smooth Off | |
| | 181 – 190 | P/T Smooth On (Default) | |
| | 191 – 200 | Pan/Tilt Slow speed | |
| | 201 – 210 | Pan/Tilt Medium speed | |
| | 211 – 220 | Pan/Tilt Fast speed (Default) | |
| | 221 – 230 | CMY Normal speed | |
| | 231 – 240 | CMY Fast speed (Default) | |
| | 241 – 246 | Display OFF (Default) | |
| | 247 – 252 | Display ON | |
| | 253 – 255 | Unused range | |
| | IMPORTANT: Functions activated holding down for 3 seconds | | |

IMPORTANT NOTE

To preserve the LED engine, it is suggested to set the Dimmer channel @ 0bit a few minutes before turning off the fixture.

To prevent accidental breakage of the effects, which could collide with each other's during transport, before switching the fixture OFF, check that all the DMX parameters have been excluded (DMX level @0 bit).

