

| Robin iESPRITE®LTL WB/ROBIN iESPRITE®LTL FS - DMX protocol |                   |                                                                |
|------------------------------------------------------------|-------------------|----------------------------------------------------------------|
| Version: 1.2 Mode 1 - Standard 16 bit                      |                   |                                                                |
| Quick overview of default DMX values for each channel      |                   |                                                                |
| Mode/channel                                               | Default DMX Value | Function                                                       |
| 1                                                          |                   |                                                                |
| 1                                                          | 128               | Pan                                                            |
| 2                                                          | 0                 | Pan Fine                                                       |
| 3                                                          | 128               | Tilt                                                           |
| 4                                                          | 0                 | Tilt fine                                                      |
| 5                                                          | 0                 | Pan/Tilt speed , Pan/Tilt time                                 |
| 6                                                          | 0                 | Power/Special functions                                        |
| 7                                                          | 10                | LED frequency selection                                        |
| 8                                                          | 128               | LED frequency fine adjusting                                   |
| 9                                                          | 0                 | Max. light intensity indication and setting                    |
| 10                                                         | 0                 | Colour wheel 1                                                 |
| 11                                                         | 0                 | Colour wheel 1-fine positioning                                |
| 12                                                         | 0                 | Colour wheel 2                                                 |
| 13                                                         | 0                 | Colour wheel 2-fine positioning                                |
| 14                                                         | 0                 | Cyan                                                           |
| 15                                                         | 0                 | Magenta                                                        |
| 16                                                         | 0                 | Yellow                                                         |
| 17                                                         | 0                 | CTO                                                            |
| 18                                                         | 128               | Green Correction                                               |
| 19                                                         | 0                 | Virtual colour wheel                                           |
| 20                                                         | 0                 | Effects speed                                                  |
| 21                                                         | 0                 | CMY+CTO+Colour wheels time                                     |
| 22                                                         | 0                 | Static gobo/ Framing shutters/Zoom/Focus/Iris/Frost/Prism time |
| 23                                                         | 0                 | Effect wheel positioning                                       |
| 24                                                         | 128               | Effect wheel rotation                                          |
| 25                                                         | 0                 | Effect wheel animations                                        |
| 26                                                         | 0                 | Static gobo wheel                                              |
| 27                                                         | 0                 | Rotating gobo wheel                                            |
| 28                                                         | 0                 | Rotating gobo wheel- fine positioning                          |
| 29                                                         | 128               | Rot. gobo indexing and rotation                                |
| 30                                                         | 0                 | Rot. gobo indexing/rotation - fine                             |
| 31                                                         | 0                 | Prism 1                                                        |
| 32                                                         | 128               | Prism 1 indexing/rotation                                      |
| 33                                                         | 0                 | Prism 2                                                        |
| 34                                                         | 128               | Prism 2 rotation                                               |
| 35                                                         | 0                 | Frost                                                          |
| 36                                                         | 0                 | Iris                                                           |
| 37                                                         | 0                 | Iris - fine                                                    |
| 38                                                         | 128               | Zoom                                                           |
| 39                                                         | 0                 | Zoom - fine                                                    |
| 40                                                         | 128               | Focus                                                          |
| 41                                                         | 0                 | Focus - fine                                                   |
| 42                                                         | 128               | Framing shutters module rotation                               |
| 43                                                         | 0                 | Framing shutter 1- movement                                    |

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| Mode/channel | Default DMX Value | Function                                                                                                                                                                                                                                                                                                           |                 |
|--------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1            |                   |                                                                                                                                                                                                                                                                                                                    |                 |
| 44           | 128               | Framing shutter 1- swivelling                                                                                                                                                                                                                                                                                      |                 |
| 45           | 0                 | Framing shutter 2- movement                                                                                                                                                                                                                                                                                        |                 |
| 46           | 128               | Framing shutter 2- swivelling                                                                                                                                                                                                                                                                                      |                 |
| 47           | 0                 | Framing shutter 3 movement                                                                                                                                                                                                                                                                                         |                 |
| 48           | 128               | Framing shutter 3- swivelling                                                                                                                                                                                                                                                                                      |                 |
| 49           | 0                 | Framing shutter 4 movement                                                                                                                                                                                                                                                                                         |                 |
| 50           | 128               | Framing shutter 4- swivelling                                                                                                                                                                                                                                                                                      |                 |
| 51           | 32                | Shutter/ strobe                                                                                                                                                                                                                                                                                                    |                 |
| 52           | 0                 | Dimmer intensity                                                                                                                                                                                                                                                                                                   |                 |
| 53           | 0                 | Dimmer intensity - fine                                                                                                                                                                                                                                                                                            |                 |
|              |                   |                                                                                                                                                                                                                                                                                                                    |                 |
|              |                   |                                                                                                                                                                                                                                                                                                                    |                 |
|              |                   |                                                                                                                                                                                                                                                                                                                    |                 |
| Mode/channel | DMX Value         | Function                                                                                                                                                                                                                                                                                                           | Type of control |
| 1            |                   |                                                                                                                                                                                                                                                                                                                    |                 |
| 1            |                   | <b>Pan</b>                                                                                                                                                                                                                                                                                                         |                 |
|              | 0 - 255           | Pan movement by 540° (128=default)                                                                                                                                                                                                                                                                                 | proportional    |
| 2            |                   | <b>Pan Fine</b>                                                                                                                                                                                                                                                                                                    |                 |
|              | 0 - 255           | Fine control of pan movement (0=default)                                                                                                                                                                                                                                                                           | proportional    |
| 3            |                   | <b>Tilt</b>                                                                                                                                                                                                                                                                                                        |                 |
|              | 0 - 255           | Tilt movement by 265° (128=default)                                                                                                                                                                                                                                                                                | proportional    |
| 4            |                   | <b>Tilt fine</b>                                                                                                                                                                                                                                                                                                   |                 |
|              | 0 - 255           | Fine control of tilt movement (0=default)                                                                                                                                                                                                                                                                          | proportional    |
| 5            |                   | <b>Pan/Tilt speed , Pan/Tilt time</b>                                                                                                                                                                                                                                                                              |                 |
|              | 0                 | Standard mode (0=default)                                                                                                                                                                                                                                                                                          | step            |
|              | 1                 | Max. Speed Mode                                                                                                                                                                                                                                                                                                    | step            |
|              |                   | <b><i>Pan/Tilt speed mode</i></b>                                                                                                                                                                                                                                                                                  |                 |
|              | 2 - 255           | Speed from max. to min.                                                                                                                                                                                                                                                                                            | proportional    |
|              |                   | <b><i>Pan/Tilt time mode</i></b>                                                                                                                                                                                                                                                                                   |                 |
|              | 2 - 255           | Time from 0.2 sec. to 25.5 sec.                                                                                                                                                                                                                                                                                    | proportional    |
| 6            |                   | <b>Power/Special functions</b>                                                                                                                                                                                                                                                                                     |                 |
|              |                   | Factory display menu setting: DMX Input-Wired ,Graphic display-On, Pan/tilt Mode-Speed,Blackout while pan/tilt moving-Off, Blackout while gobo wheels moving-Off,Blackout while colour wheels moving-Off, Fans mode-Auto, High-power mode - Off, Focus Tracking- Off, Gobo transition - Maximum speed and shortcut |                 |
|              | 0 -5              | Reserved (0=default)                                                                                                                                                                                                                                                                                               |                 |
|              |                   | <i>To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. (Channel „Shutter/ Strobe“ 51 must be at range: 0-31 DMX). Corresponding menu items are temporarily overwritten.</i>                                                                             |                 |
|              | 6                 | Standby mode: On (fixture effects are deactivated, light output is closed)                                                                                                                                                                                                                                         | step            |
|              | 7                 | Standby mode: Off                                                                                                                                                                                                                                                                                                  | step            |
|              | 8                 | Pressure test: On ( fixture does not respond to DMX during the test except value 9 (Pressure test Off))                                                                                                                                                                                                            | step            |
|              | 9                 | Pressure test: Off                                                                                                                                                                                                                                                                                                 | step            |
|              | 10-14             | DMX input: Wired DMX *                                                                                                                                                                                                                                                                                             | step            |
|              | 15-19             | DMX input: Wireless DMX *                                                                                                                                                                                                                                                                                          | step            |

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| Mode/channel | DMX Value | Function                                                                                    | Type of control |
|--------------|-----------|---------------------------------------------------------------------------------------------|-----------------|
| 1            |           |                                                                                             |                 |
|              |           | * function is active only 10 seconds after switching the fixture on                         |                 |
|              | 20-24     | Graphic display: On                                                                         | step            |
|              | 25-29     | Graphic display: Off                                                                        | step            |
|              | 30-31     | Quiet mode: Fans On at blackout                                                             | step            |
|              | 32-33     | Quiet mode: Fans Off at blackout                                                            | step            |
|              | 34-35     | Dimmer curve: Super Square Law                                                              | step            |
|              | 36-39     | Reserved                                                                                    |                 |
|              | 40-44     | Pan/Tilt mode: Speed                                                                        | step            |
|              | 45-49     | Pan/Tilt mode: Time                                                                         | step            |
|              | 50-54     | Blackout while pan/tilt moving: On                                                          | step            |
|              | 55-59     | Blackout while pan/tilt moving: Off                                                         | step            |
|              | 60-64     | Blackout while gobo wheels moving: On                                                       | step            |
|              | 65-69     | Blackout while gobo wheels moving: Off                                                      | step            |
|              | 70-74     | Blackout while colour wheels moving: On                                                     | step            |
|              | 75-79     | Blackout while colour wheels moving: Off                                                    | step            |
|              | 80-84     | Fans mode: Auto                                                                             | step            |
|              | 85-89     | Fans mode: High                                                                             | step            |
|              | 90-99     | Reserved                                                                                    |                 |
|              | 100-104   | Focus Tracking: On                                                                          | step            |
|              | 105-109   | Focus Tracking: Off                                                                         | step            |
|              | 110-114   | Dimmer curve: Square law                                                                    | step            |
|              | 115-119   | Dimmer curve: Linear                                                                        | step            |
|              | 120-124   | Parking position: On                                                                        | step            |
|              | 125-129   | Parking position: Off                                                                       | step            |
|              |           | <i>To activate following functions, stop in DMX value for at least 3 seconds.</i>           |                 |
|              | 130 - 139 | Total fixture reset (without pan/tilt)                                                      | step            |
|              | 140 - 149 | Pan and Tilt reset                                                                          | step            |
|              | 150 - 159 | Colour system reset                                                                         | step            |
|              | 160 - 169 | Gobo wheels/effect wheel reset                                                              | step            |
|              | 170-174   | Pan reset                                                                                   | step            |
|              | 175-179   | Tilt reset                                                                                  | step            |
|              | 180 - 189 | Zoom/focus/frost/prisms reset                                                               | step            |
|              | 190 - 199 | Iris /framing shutters reset                                                                | step            |
|              | 200 - 209 | Total fixture reset (including pan/tilt)                                                    | step            |
|              | 210       | Static Pan/Tilt reset: On** (default setting in the fixture )                               | step            |
|              | 211       | Static Pan/Tilt reset: Off**                                                                | step            |
|              | 212       | Calibrate Pan/Tilt reset                                                                    | step            |
|              |           | <i>** Set option will be saved to the fixture.</i>                                          |                 |
|              | 213 - 218 | Reserved                                                                                    |                 |
|              |           | The following three commands define transition from gobo rotation to gobo indexing:         |                 |
|              | 219 - 220 | Gobo indexing: Maximum speed and shortcut                                                   | step            |
|              | 221 - 222 | Gobo indexing: Follow speed and direction                                                   | step            |
|              | 223 - 224 | Gobo indexing: Maximum speed and follow direction                                           | step            |
|              |           | The following RoboSpot related commands are only applicable when the RoboSpot is connected: |                 |
|              | 225 - 229 | RoboSpot enabled                                                                            | step            |
|              | 230 - 234 | RoboSpot disabled - except handle faders and pan/tilt                                       | step            |

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| Mode/channel | DMX Value | Function                                                                                                                                                                                                                                                            | Type of control |
|--------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1            |           |                                                                                                                                                                                                                                                                     |                 |
|              | 235 - 239 | RoboSpot fully disabled                                                                                                                                                                                                                                             | step            |
|              | 240       | Disabled "Quiet mode"                                                                                                                                                                                                                                               | step            |
|              | 241 - 255 | Quiet mode - fan noise control from min. to max.                                                                                                                                                                                                                    | proportional    |
| <b>7</b>     |           | <b>LED frequency selection</b>                                                                                                                                                                                                                                      |                 |
|              |           | Factory display menu setting: 600Hz                                                                                                                                                                                                                                 |                 |
|              |           | <i>Select PWM output frequency of LEDs. Selected PWM frequency can be fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item (Frequency Setup) is temporarily overridden.</i>                               |                 |
|              | 0-4       | PWM frequency from Display menu (fixture utilizes PWM frequency set in the display menu item Frequency Setup).                                                                                                                                                      | step            |
|              | 5-9       | 300 Hz                                                                                                                                                                                                                                                              | step            |
|              | 10-14     | 600 Hz (10=default)                                                                                                                                                                                                                                                 | step            |
|              | 15-19     | 1200 Hz                                                                                                                                                                                                                                                             | step            |
|              | 20-24     | 2400 Hz                                                                                                                                                                                                                                                             | step            |
|              | 25-255    | Reserved (fixture utilizes PWM frequency set in the display menu item Frequency Setup).                                                                                                                                                                             |                 |
| <b>8</b>     |           | <b>LED frequency fine adjusting</b>                                                                                                                                                                                                                                 |                 |
|              |           | Factory display menu setting: 600Hz                                                                                                                                                                                                                                 |                 |
|              |           | <i>Select desired PWM output frequency of LEDs on the channel above.</i>                                                                                                                                                                                            |                 |
|              | 0-1       | Selected LED Frequency                                                                                                                                                                                                                                              | step            |
|              | 2         | LED Frequency (step -126)                                                                                                                                                                                                                                           | step            |
|              | 3         | LED Frequency (step -125)                                                                                                                                                                                                                                           | step            |
|              | 4         | LED Frequency (step -124)                                                                                                                                                                                                                                           | step            |
|              | :         |                                                                                                                                                                                                                                                                     |                 |
|              | 125       | LED Frequency (step -3)                                                                                                                                                                                                                                             | step            |
|              | 126       | LED Frequency (step -2)                                                                                                                                                                                                                                             | step            |
|              | 127       | LED Frequency (step -1)                                                                                                                                                                                                                                             | step            |
|              | 128       | Selected LED Frequency (128=default)                                                                                                                                                                                                                                | step            |
|              | 129       | LED Frequency (step +1)                                                                                                                                                                                                                                             | step            |
|              | 130       | LED Frequency (step +2)                                                                                                                                                                                                                                             | step            |
|              | 131       | LED Frequency (step +3)                                                                                                                                                                                                                                             | step            |
|              | :         |                                                                                                                                                                                                                                                                     |                 |
|              | 252       | LED Frequency (step +124)                                                                                                                                                                                                                                           | step            |
|              | 253       | LED Frequency (step +125)                                                                                                                                                                                                                                           | step            |
|              | 254       | LED Frequency (step +126)                                                                                                                                                                                                                                           | step            |
|              | 255       | Selected LED Frequency                                                                                                                                                                                                                                              | step            |
| <b>9</b>     |           | <b>Max. light intensity indication and setting</b>                                                                                                                                                                                                                  |                 |
|              | 0-10      | No function (0=default)                                                                                                                                                                                                                                             |                 |
|              | 11-20     | Indication of drop of max. light intensity                                                                                                                                                                                                                          | step            |
|              |           | <i>A drop of max. light intensity of the fixture (compared to its original intensity) is indicated by a corresponding colour output:</i><br>0-5%, (WHITE /new LED module/)<br>6-10% (RED)<br>11-15% (GREEN)<br>16-20% (BLUE )<br>21-25% (CYAN )<br>26-30% (MAGENTA) |                 |

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| Mode/channel | DMX Value | Function                                                                                                                                                                                                                                                                                  | Type of control |
|--------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1            |           |                                                                                                                                                                                                                                                                                           |                 |
|              |           | 31-35% (YELLOW)<br>36-40% (ORANGE)<br><i>Pan/tilt/zoom is set at 128 DMX (50%), Dimmer is open at 255 DMX (100%).</i>                                                                                                                                                                     |                 |
|              |           | <i>To set a drop of max. light intensity (compared to original light intensity), stay at DMX value for at least 3 sec. and shutter must be closed at least 3 sec. (Channel „Shutter/ Strobe“ 47/41 must be at range: 0-31 DMX). Corresponding menu items are permanently overwritten.</i> |                 |
|              | 21-30     | Set drop by 6-10% (RED)                                                                                                                                                                                                                                                                   | step            |
|              | 31-40     | Set drop by 11-15% (GREEN)                                                                                                                                                                                                                                                                | step            |
|              | 41-50     | Set Drop by 16-20% (BLUE)                                                                                                                                                                                                                                                                 | step            |
|              | 51-60     | Set drop by 21-25% (CYAN)                                                                                                                                                                                                                                                                 | step            |
|              | 61-70     | Set drop by 26-30% (MAGENTA)                                                                                                                                                                                                                                                              | step            |
|              | 71-80     | Set drop by 31-35% (YELLOW)                                                                                                                                                                                                                                                               | step            |
|              | 81-90     | Set drop by 36-40% (ORANGE)                                                                                                                                                                                                                                                               | step            |
|              | 91-100    | Original intensity (WHITE)                                                                                                                                                                                                                                                                | step            |
|              | 101-255   | Reserved                                                                                                                                                                                                                                                                                  |                 |
| 10           |           | <b>Colour wheel 1</b>                                                                                                                                                                                                                                                                     |                 |
|              |           | <b>Continual positioning</b>                                                                                                                                                                                                                                                              |                 |
|              | 0         | Open/white (0=default)                                                                                                                                                                                                                                                                    | proportional    |
|              | 21        | Deep red                                                                                                                                                                                                                                                                                  | proportional    |
|              | 43        | Deep blue                                                                                                                                                                                                                                                                                 | proportional    |
|              | 64        | Orange                                                                                                                                                                                                                                                                                    | proportional    |
|              | 86        | Green                                                                                                                                                                                                                                                                                     | proportional    |
|              | 107       | Congo blue                                                                                                                                                                                                                                                                                | proportional    |
|              | 128-129   | Open/White                                                                                                                                                                                                                                                                                | step            |
|              |           | <b>Positioning</b>                                                                                                                                                                                                                                                                        |                 |
|              | 130-141   | Deep red                                                                                                                                                                                                                                                                                  | step            |
|              | 142-153   | Deep blue                                                                                                                                                                                                                                                                                 | step            |
|              | 154-165   | Orange                                                                                                                                                                                                                                                                                    | step            |
|              | 166-177   | Green                                                                                                                                                                                                                                                                                     | step            |
|              | 178-189   | Congo blue                                                                                                                                                                                                                                                                                | step            |
|              | 190 - 215 | Forwards rainbow effect from fast to slow                                                                                                                                                                                                                                                 | proportional    |
|              | 216 - 217 | No rotation                                                                                                                                                                                                                                                                               | step            |
|              | 218 - 243 | Backwards rainbow effect from slow to fast                                                                                                                                                                                                                                                | proportional    |
|              | 244 - 249 | Reserved                                                                                                                                                                                                                                                                                  |                 |
|              | 250 - 255 | Auto random colour selection from fast to slow                                                                                                                                                                                                                                            | proportional    |
| 11           |           | <b>Colour wheel 1 - fine positioning</b>                                                                                                                                                                                                                                                  |                 |
|              | 0 - 255   | Fine positioning (0=default)                                                                                                                                                                                                                                                              | proportional    |
| 12           |           | <b>Colour wheel 2</b>                                                                                                                                                                                                                                                                     |                 |
|              |           | <b>Continual positioning</b>                                                                                                                                                                                                                                                              |                 |
|              | 0         | Open/white (0=default)                                                                                                                                                                                                                                                                    | proportional    |
|              | 21        | Multicolour                                                                                                                                                                                                                                                                               | proportional    |
|              | 43        | Laser green                                                                                                                                                                                                                                                                               | proportional    |
|              | 64        | Lavender                                                                                                                                                                                                                                                                                  | proportional    |
|              | 86        | Filter CRI 80                                                                                                                                                                                                                                                                             | proportional    |
|              | 107       | Filter CRI 90                                                                                                                                                                                                                                                                             | proportional    |
|              | 128-129   | Open/White                                                                                                                                                                                                                                                                                | step            |

| Mode/channel | DMX Value | Function                                                                             | Type of control |
|--------------|-----------|--------------------------------------------------------------------------------------|-----------------|
| 1            |           |                                                                                      |                 |
|              |           | <b>Positioning</b>                                                                   |                 |
|              | 130-141   | Multicolour                                                                          | step            |
|              | 142-153   | Laser green                                                                          | step            |
|              | 154-165   | Lavender                                                                             | step            |
|              | 166-177   | Filter CRI 80                                                                        | step            |
|              | 178-189   | Filter CRI 90                                                                        | step            |
|              | 190 - 215 | Forwards rainbow effect from fast to slow                                            | proportional    |
|              | 216 - 217 | No rotation                                                                          | step            |
|              | 218 - 243 | Backwards rainbow effect from slow to fast                                           | proportional    |
|              | 244 - 249 | Reserved                                                                             |                 |
|              | 250 - 255 | Auto random colour selection from fast to slow                                       | proportional    |
| <b>13</b>    |           | <b>Colour wheel 2 - fine positioning</b>                                             |                 |
|              | 0 - 255   | Fine positioning (0=default)                                                         | proportional    |
| <b>14</b>    |           | <b>Cyan</b>                                                                          |                 |
|              | 0 - 255   | Cyan from min. saturation --> full cyan (0=default)                                  | proportional    |
| <b>15</b>    |           | <b>Magenta</b>                                                                       |                 |
|              | 0 - 255   | Magenta from min. saturation --> full magenta (0=default)                            | proportional    |
| <b>16</b>    |           | <b>Yellow</b>                                                                        |                 |
|              | 0 - 255   | Yellow from min. saturation --> full yellow (0=default)                              | proportional    |
| <b>17</b>    |           | <b>CTO</b>                                                                           |                 |
|              | 0 - 255   | CTO from 6700K --> 2700K (0=default), XP white LED engine                            | proportional    |
|              |           | CTO from 5800K --> 2200K (0=default), HCF white LED engine                           | proportional    |
| <b>18</b>    |           | <b>Green correction</b>                                                              |                 |
|              | 0         | Uncorrected white                                                                    | step            |
|              | 1-127     | Minus green --> uncorrected white                                                    | proportional    |
|              | 128       | Uncorrected white (128=default)                                                      | step            |
|              | 129-255   | Uncorrected white --> Plus green                                                     | proportional    |
| <b>19</b>    |           | <b>Virtual colour wheel</b>                                                          |                 |
|              |           | <i>See table "Colours on Virtual Colour Wheel" to find components of each colour</i> |                 |
|              |           | <i>The following channels are disabled: 9-18</i>                                     |                 |
|              | 0         | No function (0=default)                                                              | step            |
|              | 1-2       | Filter 4 (Medium Bastard Amber)                                                      | step            |
|              | 3-4       | Filter 10 (Medium Yellow)                                                            | step            |
|              | 5-6       | Filter 19 (Fire)                                                                     | step            |
|              | 7-8       | Filter 26 (Bright Red)                                                               | step            |
|              | 9-10      | Filter 58 (Lavender)                                                                 | step            |
|              | 11-12     | Filter 68 (Sky Blue)                                                                 | step            |
|              | 13-14     | Filter 71 (Tokyo Blue)                                                               | step            |
|              | 15-16     | Filter 79 (Just Blue)                                                                | step            |
|              | 17-18     | Filter 88 (Lime Green)                                                               | step            |
|              | 19-20     | Filter 90 (Dark Yellow Green)                                                        | step            |
|              | 21-22     | Filter 100 (Spring Yellow)                                                           | step            |
|              | 23-24     | Filter 101 (Yellow)                                                                  | step            |
|              | 25-26     | Filter 102 (Light Amber)                                                             | step            |
|              | 27-28     | Filter 103 (Straw)                                                                   | step            |
|              | 29-30     | Filter 104 (Deep Amber)                                                              | step            |
|              | 31-32     | Filter 105 (Orange)                                                                  | step            |

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| Mode/channel | DMX Value | Function                               | Type of control |
|--------------|-----------|----------------------------------------|-----------------|
| 1            |           |                                        |                 |
|              | 33-34     | Filter 106 (Primary Red)               | step            |
|              | 35-36     | Filter 111 (Dark Pink)                 | step            |
|              | 37-38     | Filter 115 (Peacock Blue)              | step            |
|              | 39-40     | Filter 116 (Medium Blue-Green)         | step            |
|              | 41-42     | Filter 117 (Steel Blue)                | step            |
|              | 43-44     | Filter 118 (Light Blue)                | step            |
|              | 45-46     | Filter 119 (Dark Blue)                 | step            |
|              | 47-48     | Filter 120 (Deep Blue)                 | step            |
|              | 49-50     | Filter 121 (Filter Green)              | step            |
|              | 51-52     | Filter 128 (Bright Pink)               | step            |
|              | 53-54     | Filter 131 (Marine Blue)               | step            |
|              | 55-56     | Filter 132 (Medium Blue)               | step            |
|              | 57-58     | Filter 134 (Golden Amber)              | step            |
|              | 59-60     | Filter 135 (Deep Golden Amber)         | step            |
|              | 61-62     | Filter 136 (Pale Lavender)             | step            |
|              | 63-64     | Filter 137 (Special Lavender)          | step            |
|              | 65-66     | Filter 138 (Pale Green)                | step            |
|              | 67-68     | Filter 139 (Primary Green)             | step            |
|              | 69-70     | Filter 141 (Bright Blue)               | step            |
|              | 71-72     | Filter 147 (Apricot)                   | step            |
|              | 73-74     | Filter 148 (Bright Rose)               | step            |
|              | 75-76     | Filter 152 (Pale Gold)                 | step            |
|              | 77-78     | Filter 154 (Pale Rose)                 | step            |
|              | 79-80     | Filter 157 (Pink)                      | step            |
|              | 81-82     | Filter 158 (Deep Orange)               | step            |
|              | 83-84     | Filter 162 (Bastard Amber)             | step            |
|              | 85-86     | Filter 164 (Flame Red)                 | step            |
|              | 87-88     | Filter 165 (Daylight Blue)             | step            |
|              | 89-90     | Filter 169 (Lilac Tint)                | step            |
|              | 91-92     | Filter 170 (Deep Lavender)             | step            |
|              | 93-94     | Filter 172 (Lagoon Blue)               | step            |
|              | 95-96     | Filter 179 (Chrome Orange)             | step            |
|              | 97-98     | Filter 180 (Dark Lavender)             | step            |
|              | 99-100    | Filter 181 (Congo Blue)                | step            |
|              | 101-102   | Filter 197 (Alice Blue)                | step            |
|              | 103-104   | Filter 201 (Full C.T. Blue)            | step            |
|              | 105-106   | Filter 202 (Half C.T. Blue)            | step            |
|              | 107-108   | Filter 203 (Quarter C.T. Blue)         | step            |
|              | 109-110   | Filter 204 (Full C.T. Orange)          | step            |
|              | 111-112   | Filter 205 (Half C.T. Orange)          | step            |
|              | 113-114   | Filter 206 (Quarter C.T. Orange)       | step            |
|              | 115-116   | Filter 247 (Filter Minus Green)        | step            |
|              | 117-118   | Filter 248 (Half Minus Green)          | step            |
|              | 119-120   | Filter 281 (Three Quarter C.T. Blue)   | step            |
|              | 121-122   | Filter 285 (Three Quarter C.T. Orange) | step            |
|              | 123-124   | Filter 352 (Glacier Blue)              | step            |
|              | 125-126   | Filter 353 (Lighter Blue)              | step            |
|              | 127-128   | Filter 715 (Cabana Blue)               | step            |

| Mode/channel | DMX Value | Function                                                                                                                                                                                                                                                               | Type of control |
|--------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1            |           |                                                                                                                                                                                                                                                                        |                 |
|              | 129-130   | Filter 778 (Millennium Gold)                                                                                                                                                                                                                                           | step            |
|              | 131-132   | Filter 793 (Vanity Fair)                                                                                                                                                                                                                                               | step            |
|              | 133-255   | Reserved                                                                                                                                                                                                                                                               |                 |
| 20           |           | <b>Effects Speed</b>                                                                                                                                                                                                                                                   |                 |
|              |           | <i>Speed of CMY&amp;CTO movement and Rot. Gobo/Static Gobo selection</i>                                                                                                                                                                                               |                 |
|              | 0-255     | Speed of CMY+CTO movement from max. to min. (0=default)                                                                                                                                                                                                                | proportional    |
|              | 0-255     | Speed of Rot. Gobo/Stat. Gobo selection from max. to min.                                                                                                                                                                                                              | proportional    |
| 21           |           | <b>CMY+CTO+Colour wheels time</b>                                                                                                                                                                                                                                      |                 |
|              | 0         | Function is off (0=default)                                                                                                                                                                                                                                            | step            |
|              | 1 - 255   | Time of CMY, CTO and Colour wheels movement (0.1sec-->25.5sec.)                                                                                                                                                                                                        | proportional    |
| 22           |           | <b>Static gobo wheel/ Framing shutters/Zoom/Focus/Iris/Frost/Prisms time</b>                                                                                                                                                                                           |                 |
|              | 0         | Function is off (0=default)                                                                                                                                                                                                                                            | step            |
|              | 1-255     | Time of static gobo movement (0.1 sec-->25.5 sec.)                                                                                                                                                                                                                     | proportional    |
|              | 1 - 255   | Time of framing shutters, zoom, focus, iris and frost movement (0.1 sec-->25.5 sec.)                                                                                                                                                                                   | proportional    |
|              | 1-50      | Time of prisms movement (0.1 sec-->5 sec.)                                                                                                                                                                                                                             | proportional    |
| 23           |           | <b>Effect wheel positioning</b>                                                                                                                                                                                                                                        |                 |
|              | 0-19      | No function (0=default)                                                                                                                                                                                                                                                | step            |
|              | 20-127    | Proportional indexing (73-center)                                                                                                                                                                                                                                      | proportional    |
|              | 128-170   | Ramping from open to full position ( max--->min. speed)                                                                                                                                                                                                                | proportional    |
|              | 171-213   | Ramping from open to half position ( max. --->min. speed)                                                                                                                                                                                                              | proportional    |
|              | 214-255   | Ramp. from half position to full position ( max. --->min. speed)                                                                                                                                                                                                       | proportional    |
| 24           |           | <b>Effect wheel rotation</b>                                                                                                                                                                                                                                           |                 |
|              | 0         | No rotation                                                                                                                                                                                                                                                            | step            |
|              | 1 - 127   | Rotation from fast to slow - CW (clockwise)***                                                                                                                                                                                                                         | proportional    |
|              | 128       | No rotation (128=default)                                                                                                                                                                                                                                              | step            |
|              | 129 - 255 | Rotation from slow to fast CCW (counterclockwise)***                                                                                                                                                                                                                   | proportional    |
| 25           |           | <b>Effect wheel animations</b>                                                                                                                                                                                                                                         |                 |
|              | 0-7       | No animation (0=default)                                                                                                                                                                                                                                               |                 |
|              |           | <i>Note : Set suitable DMX value at <b>Focus</b> channel to get desired animation. All animations were created at distance of 5 m from screen with zoom=128 DMX, Focus value is different for each effect (focus value is stated in parentheses for this distance)</i> |                 |
|              |           | <i>The following channels are blocked: Effect wheel positioning, Effect wheel rotation, Static gobo wheel. Rotating gobo wheel, Rot. Gobo indexing and rotation, Rot. Gobo wheel fine rotation.</i>                                                                    |                 |
|              | 8-9       | Macro 1 (Focus=162)                                                                                                                                                                                                                                                    | step            |
|              | 10-11     | Macro 2 (Focus=201)                                                                                                                                                                                                                                                    | step            |
|              | 12-13     | Macro 3 (Focus=141)                                                                                                                                                                                                                                                    | step            |
|              | 14-15     | Macro 4 (Focus=159)                                                                                                                                                                                                                                                    | step            |
|              | 16-17     | Macro 5 (Focus=168)                                                                                                                                                                                                                                                    | step            |
|              | 18-19     | Macro 6 (Focus=168)                                                                                                                                                                                                                                                    | step            |
|              | 20-21     | Macro 7 (Focus=168)                                                                                                                                                                                                                                                    | step            |
|              | 22-23     | Macro 8 (Focus=168)                                                                                                                                                                                                                                                    | step            |
|              | 24-25     | Macro 9 (Focus=147)                                                                                                                                                                                                                                                    | step            |
|              | 26-27     | Macro 10 (Focus=147)                                                                                                                                                                                                                                                   | step            |
|              | 28-255    | Reserved                                                                                                                                                                                                                                                               |                 |
| 26           |           | <b>Static gobo wheel</b>                                                                                                                                                                                                                                               |                 |



# DMX protocol

| Mode/channel | DMX Value | Function                                        | Type of control |
|--------------|-----------|-------------------------------------------------|-----------------|
| 1            |           |                                                 |                 |
|              | 0-8       | Open/hole (0=default)                           | step            |
|              | 9-17      | Gobo 1                                          | step            |
|              | 18-26     | Gobo 2                                          | step            |
|              | 27-35     | Gobo 3                                          | step            |
|              | 36-44     | Gobo 4                                          | step            |
|              | 45-53     | Gobo 5                                          | step            |
|              | 54-62     | Gobo 6                                          | step            |
|              | 63-71     | Gobo 7                                          | step            |
|              | 72-80     | Gobo 8                                          | step            |
|              | 81-91     | Gobo 9                                          | step            |
|              |           | <b><u>Shaking gobos from slow to fast</u></b>   |                 |
|              | 92-103    | Gobo 1                                          | proportional    |
|              | 104-115   | Gobo 2                                          | proportional    |
|              | 116-127   | Gobo 3                                          | proportional    |
|              | 128-139   | Gobo 4                                          | proportional    |
|              | 140-151   | Gobo 5                                          | proportional    |
|              | 152-163   | Gobo 6                                          | proportional    |
|              | 164-175   | Gobo 7                                          | proportional    |
|              | 176-187   | Gobo 8                                          | proportional    |
|              | 188-199   | Gobo 9                                          | proportional    |
|              | 200 - 201 | Open/hole                                       | step            |
|              | 202 - 222 | Forwards gobo wheel rotation from fast to slow  | proportional    |
|              | 223 - 243 | Backwards gobo wheel rotation from slow to fast | proportional    |
|              | 244 - 249 | Reserved                                        |                 |
|              | 250 - 255 | Auto random gobo selection from fast to slow    | proportional    |
| <b>27</b>    |           | <b>Rotating gobo wheel</b>                      |                 |
|              |           | <i>Index - set indexing on channel 29</i>       |                 |
|              | 0-13      | Open/hole (0=default)                           | step            |
|              | 14-16     | LT Follow Spot mode                             | step            |
|              | 17-19     | Gobo 1                                          | step            |
|              | 20-22     | Gobo 2                                          | step            |
|              | 23-25     | Gobo 3                                          | step            |
|              | 26-28     | Gobo 4                                          | step            |
|              | 29-31     | Gobo 5                                          | step            |
|              | 32-34     | Gobo 6                                          | step            |
|              | 35-37     | Gobo 7                                          | step            |
|              |           | <i>Rotation - set rotation on channel 29</i>    |                 |
|              | 38-40     | LT Follow Spot mode                             | step            |
|              | 41-43     | Gobo 1                                          | step            |
|              | 44-46     | Gobo 2                                          | step            |
|              | 47-49     | Gobo 3                                          | step            |
|              | 50-52     | Gobo 4                                          | step            |
|              | 53-55     | Gobo 5                                          | step            |
|              | 56-58     | Gobo 6                                          | step            |
|              | 59-61     | Gobo 7                                          | step            |
|              |           | <b>Continual positioning</b>                    |                 |
|              |           | <i>Index - set indexing on channel 29</i>       |                 |
|              | 62        | Open/hole                                       | proportional    |

| Mode/channel | DMX Value | Function                                                                                                                                                                                     | Type of control |
|--------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1            |           |                                                                                                                                                                                              |                 |
|              | 69        | Gobo 1                                                                                                                                                                                       | proportional    |
|              | 76        | Gobo 2                                                                                                                                                                                       | proportional    |
|              | 83        | Gobo 3                                                                                                                                                                                       | proportional    |
|              | 90        | Gobo 4                                                                                                                                                                                       | proportional    |
|              | 97        | Gobo 5                                                                                                                                                                                       | proportional    |
|              | 104       | Gobo 6                                                                                                                                                                                       | proportional    |
|              | 111       | Gobo 7                                                                                                                                                                                       | proportional    |
|              | 118       | Beam reducer                                                                                                                                                                                 | proportional    |
|              | 125       | Open/hole                                                                                                                                                                                    | proportional    |
|              |           | <b>Continual positioning</b>                                                                                                                                                                 |                 |
|              |           | <i>Rotation - set rotation on channel 29</i>                                                                                                                                                 |                 |
|              | 126       | Open/hole                                                                                                                                                                                    | proportional    |
|              | 133       | Gobo 1                                                                                                                                                                                       | proportional    |
|              | 140       | Gobo 2                                                                                                                                                                                       | proportional    |
|              | 147       | Gobo 3                                                                                                                                                                                       | proportional    |
|              | 154       | Gobo 4                                                                                                                                                                                       | proportional    |
|              | 161       | Gobo 5                                                                                                                                                                                       | proportional    |
|              | 168       | Gobo 6                                                                                                                                                                                       | proportional    |
|              | 175       | Gobo 7                                                                                                                                                                                       | proportional    |
|              | 182       | Beam reducer                                                                                                                                                                                 | proportional    |
|              | 189       | Open/hole                                                                                                                                                                                    | proportional    |
|              | 190-201   | Open/hole                                                                                                                                                                                    | step            |
|              | 202 - 222 | Forwards gobo wheel rotation from fast to slow                                                                                                                                               | proportional    |
|              | 223 - 243 | Backwards gobo wheel rotation from slow to fast                                                                                                                                              | proportional    |
|              | 244 - 249 | Reserved                                                                                                                                                                                     |                 |
|              | 250 - 255 | Auto random gobo selection from fast to slow                                                                                                                                                 | proportional    |
| <b>28</b>    |           | <b>Rotating gobo wheel - fine positioning</b>                                                                                                                                                |                 |
|              | 0 - 255   | Fine positioning (0=default)                                                                                                                                                                 | proportional    |
| <b>29</b>    |           | <b>Rot. gobo indexing and rotation</b>                                                                                                                                                       |                 |
|              |           | <i>Gobo indexing - set position on channel 27</i>                                                                                                                                            |                 |
|              | 0 - 255   | Gobo indexing (128=default)                                                                                                                                                                  | proportional    |
|              |           | <i>Gobo rotation - set position on channel 27</i>                                                                                                                                            |                 |
|              | 0         | No rotation                                                                                                                                                                                  | step            |
|              | 1 - 127   | Gobo rotation from fast to slow - CW (clockwise)***                                                                                                                                          | proportional    |
|              | 128       | No rotation (128=default)                                                                                                                                                                    | step            |
|              | 129 - 255 | Gobo rotation from slow to fast - CCW (counterclockwise)***                                                                                                                                  | proportional    |
| <b>30</b>    |           | <b>Rot. gobo indexing/rotation - fine</b>                                                                                                                                                    |                 |
|              | 0-255     | Fine indexing/rotation (0=default)                                                                                                                                                           | proportional    |
| <b>31</b>    |           | <b>Prism 1 (6-facet linear)</b>                                                                                                                                                              |                 |
|              | 0 - 19    | Open position - hole (0=default)                                                                                                                                                             | step            |
|              | 20 - 73   | Prism indexing                                                                                                                                                                               | step            |
|              | 74-127    | Prism rotation                                                                                                                                                                               | step            |
|              |           | <b>Prism/gobo macros</b>                                                                                                                                                                     |                 |
|              |           | <i>The following channels are blocked: Prism 1, Prism 1 rotation, Rotating gobo wheel, Rot. Gobo wheel fine positioning, Rot. Gobo indexing and rotation, Rot. Gobo wheel fine rotation.</i> |                 |
|              | 128 - 135 | Macro 1                                                                                                                                                                                      | step            |
|              | 136 - 143 | Macro 2                                                                                                                                                                                      | step            |

| Mode/channel | DMX Value | Function                                                                                                | Type of control |
|--------------|-----------|---------------------------------------------------------------------------------------------------------|-----------------|
| 1            |           |                                                                                                         |                 |
|              | 144 - 151 | Macro 3                                                                                                 | step            |
|              | 152 - 159 | Macro 4                                                                                                 | step            |
|              | 160 - 167 | Macro 5                                                                                                 | step            |
|              | 168 - 175 | Macro 6                                                                                                 | step            |
|              | 176 - 183 | Macro 7                                                                                                 | step            |
|              | 184 - 191 | Macro 8                                                                                                 | step            |
|              | 192 - 199 | Macro 9                                                                                                 | step            |
|              | 200 - 207 | Macro 10                                                                                                | step            |
|              | 208 - 215 | Macro 11                                                                                                | step            |
|              | 216 - 223 | Macro 12                                                                                                | step            |
|              | 224 - 231 | Macro 13                                                                                                | step            |
|              | 232 - 239 | Macro 14                                                                                                | step            |
|              | 240 - 247 | Macro 15                                                                                                | step            |
|              | 248 - 255 | Macro 16                                                                                                | step            |
| <b>32</b>    |           | <b>Prism 1 indexing/rotation</b>                                                                        |                 |
|              |           | <i><b>Prism indexing</b> - set position on channel 31</i>                                               |                 |
|              | 0 - 255   | Prism 1 indexing                                                                                        | proportional    |
|              |           | <i><b>Prism rotation</b> - set position on channel 31</i>                                               |                 |
|              | 0         | No rotation                                                                                             | step            |
|              | 1 - 127   | Prism rotation from fast to slow - CW (clockwise)***                                                    | proportional    |
|              | 128       | No rotation (128=default)                                                                               | step            |
|              | 129-255   | Prism rotation from slow to fast - CCW (counterclockwise)***                                            | proportional    |
| <b>33</b>    |           | <b>Prism 2 (6-facet circular)</b>                                                                       |                 |
|              | 0 - 19    | Open position - hole (0=default)                                                                        | step            |
|              | 20-127    | Prism 2 rotation                                                                                        | step            |
|              |           | <b>Prism 2 /gobo macros</b>                                                                             |                 |
|              |           | <i>Rot. gobo wheel, Rot. Gobo wheel fine pos., Rot. Gobo indexing and rotation, Rot. Gobo fine rot.</i> |                 |
|              | 128 - 135 | Macro 1                                                                                                 | step            |
|              | 136 - 143 | Macro 2                                                                                                 | step            |
|              | 144 - 151 | Macro 3                                                                                                 | step            |
|              | 152 - 159 | Macro 4                                                                                                 | step            |
|              | 160 - 167 | Macro 5                                                                                                 | step            |
|              | 168 - 175 | Macro 6                                                                                                 | step            |
|              | 176 - 183 | Macro 7                                                                                                 | step            |
|              | 184 - 191 | Macro 8                                                                                                 | step            |
|              | 192 - 199 | Macro 9                                                                                                 | step            |
|              | 200 - 207 | Macro 10                                                                                                | step            |
|              | 208 - 215 | Macro 11                                                                                                | step            |
|              | 216 - 223 | Macro 12                                                                                                | step            |
|              | 224 - 231 | Macro 13                                                                                                | step            |
|              | 232 - 239 | Macro 14                                                                                                | step            |
|              | 240 - 247 | Macro 15                                                                                                | step            |
|              | 248 - 255 | Macro 16                                                                                                | step            |
| <b>34</b>    |           | <b>Prism 2 rotation</b>                                                                                 |                 |
|              | 0         | No rotation                                                                                             | step            |
|              | 1 - 127   | Prism rotation from fast to slow - CW (clockwise)***                                                    | proportional    |
|              | 128       | No rotation (128=default)                                                                               | step            |

| Mode/channel | DMX Value | Function                                                     | Type of control |
|--------------|-----------|--------------------------------------------------------------|-----------------|
| 1            |           |                                                              |                 |
|              | 129-255   | Prism rotation from slow to fast - CCW (counterclockwise)*** | proportional    |
| <b>35</b>    |           | <b>Frost</b>                                                 |                 |
|              | 0         | Open (0=default)                                             | step            |
|              |           | <b>Light Frost</b>                                           |                 |
|              | 1-50      | Light Frost from 0% to 100%                                  | proportional    |
|              | 51-53     | 100% Light Frost                                             | step            |
|              | 54-63     | Pulse closing from slow to fast                              | proportional    |
|              | 64-73     | Pulse opening from fast to slow                              | proportional    |
|              | 74-83     | Ramping from fast to slow                                    | proportional    |
|              | 84-86     | Open                                                         | step            |
|              |           | <b>Medium Frost</b>                                          |                 |
|              | 87-136    | Medium Frost from 0% to 100%                                 | proportional    |
|              | 137-139   | 100% Medium Frost                                            | step            |
|              | 140-149   | Pulse closing from slow to fast                              | proportional    |
|              | 150-159   | Pulse opening from fast to slow                              | proportional    |
|              | 160-169   | Ramping from fast to slow                                    | proportional    |
|              | 170-255   | Reserved                                                     |                 |
| <b>36</b>    |           | <b>Iris</b>                                                  |                 |
|              | 0         | Open (0=default)                                             | step            |
|              | 1 - 179   | From max. diameter to min. diameter                          | proportional    |
|              | 180 - 191 | Closed                                                       | step            |
|              |           | <b>Pulse effects with Iris blackout</b>                      |                 |
|              | 192 - 219 | Pulse opening from slow to fast                              | proportional    |
|              | 220 - 247 | Pulse closing from fast to slow                              | proportional    |
|              | 248 - 249 | Random pulse opening (fast)                                  | step            |
|              | 250 - 251 | Random pulse opening (slow)                                  | step            |
|              | 252 - 253 | Random pulse closing (fast)                                  | step            |
|              | 254 - 255 | Random pulse closing (slow)                                  | step            |
| <b>37</b>    |           | <b>Iris - fine</b>                                           |                 |
|              | 0 - 255   | Fine iris movement (0=default)                               | proportional    |
| <b>38</b>    |           | <b>Zoom</b>                                                  |                 |
|              | 0 - 255   | Zoom from max. to min. beam angle (128=default)              | proportional    |
| <b>39</b>    |           | <b>Zoom - fine</b>                                           |                 |
|              | 0-255     | Fine zooming (0=default)                                     | proportional    |
| <b>40</b>    |           | <b>Focus</b>                                                 |                 |
|              | 0 - 255   | Continuous adjustment from far to near (128=default)         | proportional    |
| <b>41</b>    |           | <b>Focus - fine</b>                                          |                 |
|              | 0- 255    | Fine focusing (0=default)                                    | proportional    |
| <b>42</b>    |           | <b>Framing shutters module rotation</b>                      |                 |
|              | 0-127     | Rotation from right (0°) to 60°                              | proportional    |
|              | 128       | Centre (128=default)                                         | step            |
|              | 129-255   | Rotation from 60° to left (120°)                             | proportional    |
| <b>43</b>    |           | <b>Framing shutter 1- movement</b>                           |                 |
|              | 0-255     | Movement from Outward to Inward (0=default)                  | proportional    |
| <b>44</b>    |           | <b>Framing shutter 1- swivelling</b>                         |                 |
|              | 0-127     | Swivelling from -30 degrees towards 0 degrees                | proportional    |
|              | 128       | 0 degrees (128=default)                                      | step            |
|              | 129-255   | Swivelling from 0 degrees to +30 degrees                     | proportional    |

| Mode/channel                                                                                                                             | DMX Value | Function                                      | Type of control |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------|-----------------|
| 1                                                                                                                                        |           |                                               |                 |
| 45                                                                                                                                       |           | <b>Framing shutter 2- movement</b>            |                 |
|                                                                                                                                          | 0-255     | Movement from Outward to Inward (0=default)   | proportional    |
| 46                                                                                                                                       |           | <b>Framing shutter 2- swivelling</b>          |                 |
|                                                                                                                                          | 0-127     | Swivelling from -30 degrees towards 0 degrees | proportional    |
|                                                                                                                                          | 128       | 0 degrees (128=default)                       | step            |
|                                                                                                                                          | 129-255   | Swivelling from 0 degrees to +30 degrees      | proportional    |
| 47                                                                                                                                       |           | <b>Framing shutter 3 movement</b>             |                 |
|                                                                                                                                          | 0-255     | Movement from Outward to Inward (0=default)   | proportional    |
| 48                                                                                                                                       |           | <b>Framing shutter 3- swivelling</b>          |                 |
|                                                                                                                                          | 0-127     | Swivelling from -30 degrees towards 0 degrees | proportional    |
|                                                                                                                                          | 128       | 0 degrees (128=default)                       | step            |
|                                                                                                                                          | 129-255   | Swivelling from 0 degrees to +30 degrees      | proportional    |
| 49                                                                                                                                       |           | <b>Framing shutter 4 movement</b>             |                 |
|                                                                                                                                          | 0-255     | Movement from Outward to Inward (0=default)   | proportional    |
| 50                                                                                                                                       |           | <b>Framing shutter 4- swivelling</b>          |                 |
|                                                                                                                                          | 0-127     | Swivelling from -30 degrees towards 0 degrees | proportional    |
|                                                                                                                                          | 128       | 0 degrees (128=default)                       | step            |
|                                                                                                                                          | 129-255   | Swivelling from 0 degrees to +30 degrees      | proportional    |
| 51                                                                                                                                       |           | <b>Shutter/ strobe</b>                        |                 |
|                                                                                                                                          | 0 - 31    | Shutter closed                                | step            |
|                                                                                                                                          | 32 - 63   | Shutter open (32=default)                     | step            |
|                                                                                                                                          | 64 - 95   | Strobe-effect from slow to fast               | proportional    |
|                                                                                                                                          | 96 - 127  | Shutter open                                  | step            |
|                                                                                                                                          | 128 - 143 | Opening pulse in sequences from slow to fast  | proportional    |
|                                                                                                                                          | 144 - 159 | Closing pulse in sequences from fast to slow  | proportional    |
|                                                                                                                                          | 160 - 191 | Shutter open                                  | step            |
|                                                                                                                                          | 192 - 223 | Random strobe-effect from slow to fast        | proportional    |
|                                                                                                                                          | 224 - 255 | Shutter open                                  | step            |
| 52                                                                                                                                       |           | <b>Dimmer intensity</b>                       |                 |
|                                                                                                                                          | 0 - 255   | Dimmer intensity from 0% to 100% (0=default)  | proportional    |
| 53                                                                                                                                       |           | <b>Dimmer intensity - fine</b>                |                 |
|                                                                                                                                          | 0 - 255   | Fine dimming (0=default)                      | proportional    |
| *** CW and CCW rotation is determined from the perspective of the fixture's mounting point, looking along the projected beam's direction |           |                                               |                 |
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| All Specifications subject to change without notice                                                                                      |           |                                               |                 |