

# DMX protocol

## Robin Esprite Fresnel/Robin Esprite PC - DMX protocol

Version: 1.5 Mode 1 - Standard 16 bit, Mode 2 - Reduced 8 bit, Mode 3-Standard 16 bit+green corr. Mode 4 - Reduced 8 bit+green corr.

### Quick overview of default DMX values for each channel

| Mode/channel |    |    |    | Default DMX Value | Function                                    |
|--------------|----|----|----|-------------------|---------------------------------------------|
| 1            | 2  | 3  | 4  |                   |                                             |
| 1            | 1  | 1  | 1  | 128               | Pan                                         |
| 2            | 2  | 2  | 2  | 0                 | Pan Fine                                    |
| 3            | 3  | 3  | 3  | 128               | Tilt                                        |
| 4            | 4  | 4  | 4  | 0                 | Tilt fine                                   |
| 5            | 5  | 5  | 5  | 0                 | Pan/Tilt speed , Pan/Tilt time              |
| 6            | 6  | 6  | 6  | 0                 | Power/Special functions                     |
| 7            | 7  | 7  | 7  | 10                | LED frequency selection                     |
| 8            | 8  | 8  | 8  | 128               | LED frequency fine adjusting                |
| 9            | 9  | 9  | 9  | 0                 | Max. light intensity indication and setting |
| 10           | 10 | 10 | 10 | 0                 | Colour wheel 1                              |
| 11           | *  | 11 | *  | 0                 | Colour wheel 1- fine positioning            |
| 12           | 11 | 12 | 11 | 0                 | Colour wheel 2                              |
| 13           | *  | 13 | *  | 0                 | Colour wheel 2- fine positioning            |
| 14           | 12 | 14 | 12 | 0                 | Cyan                                        |
| 15           | 13 | 15 | 13 | 0                 | Magenta                                     |
| 16           | 14 | 16 | 14 | 0                 | Yellow                                      |
| 17           | 15 | 17 | 15 | 0                 | CTO filter                                  |
| *            | *  | 18 | 16 | 128               | Green Correction                            |
| 18           | 16 | 19 | 17 | 0                 | Virtual colour wheel                        |
| 19           | 17 | 20 | 18 | 0                 | Effects Speed                               |
| 20           | 18 | 21 | 19 | 0                 | CMY/CTO/Barndoors/Zoom/Frost time           |
| 21           | 19 | 22 | 20 | 0                 | Scrim positioning                           |
| 22           | 20 | 23 | 21 | 128               | Scrim indexing                              |
| 23           | 21 | 24 | 22 | 0                 | Frost                                       |
| 24           | 22 | 25 | 23 | 128               | Zoom                                        |
| 25           | *  | 26 | *  | 0                 | Zoom - fine                                 |
| 26           | 23 | 27 | 24 | 128               | Edge colour correction                      |
| 27           | 24 | 28 | 25 | 128               | Barndoors rotation                          |
| 28           | 25 | 29 | 26 | 0                 | Barndoor 1-movement                         |
| 29           | 26 | 30 | 27 | 0                 | Barndoor 2-movement                         |
| 30           | 27 | 31 | 28 | 0                 | Barndoor 3-movement                         |
| 31           | 28 | 32 | 29 | 0                 | Barndoor 4-movement                         |
| 32           | 29 | 33 | 30 | 32                | Shutter/ strobe                             |
| 33           | 30 | 34 | 31 | 0                 | Dimmer intensity                            |
| 34           | *  | 35 | *  | 0                 | Dimmer intensity - fine                     |

| Mode/channel |   |   |   | DMX Value | Function                                 | Type of control |
|--------------|---|---|---|-----------|------------------------------------------|-----------------|
| 1            | 2 | 3 | 4 |           |                                          |                 |
| 1            | 1 | 1 | 1 | 0 - 255   | <b>Pan</b>                               | proportional    |
|              |   |   |   |           | Pan movement by 540° (128=default)       |                 |
| 2            | 2 | 2 | 2 | 0 - 255   | <b>Pan Fine</b>                          | proportional    |
|              |   |   |   |           | Fine control of pan movement (0=default) |                 |

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| Mode/channel |   |   |   | DMX Value | Function                                                                                                                                                                                                                                      | Type of control |
|--------------|---|---|---|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1            | 2 | 3 | 4 |           |                                                                                                                                                                                                                                               |                 |
| 3            | 3 | 3 | 3 |           | <b>Tilt</b>                                                                                                                                                                                                                                   |                 |
|              |   |   |   | 0 - 255   | Tilt movement by 265° (128=default)                                                                                                                                                                                                           | proportional    |
| 4            | 4 | 4 | 4 |           | <b>Tilt fine</b>                                                                                                                                                                                                                              |                 |
|              |   |   |   | 0 - 255   | Fine control of tilt movement (0=default)                                                                                                                                                                                                     | proportional    |
| 5            | 5 | 5 | 5 |           | <b>Pan/Tilt speed , Pan/Tilt time</b>                                                                                                                                                                                                         |                 |
|              |   |   |   | 0         | Standard mode (0=default)                                                                                                                                                                                                                     | step            |
|              |   |   |   | 1         | Max. Speed Mode                                                                                                                                                                                                                               | step            |
|              |   |   |   |           | <b>Pan/Tilt speed mode</b>                                                                                                                                                                                                                    |                 |
|              |   |   |   | 2 - 255   | Speed from max. to min.                                                                                                                                                                                                                       | proportional    |
|              |   |   |   |           | <b>Pan/Tilt time mode</b>                                                                                                                                                                                                                     |                 |
|              |   |   |   | 2 - 255   | Time from 0.2 sec. to 25.5 sec.                                                                                                                                                                                                               | proportional    |
| 6            | 6 | 6 | 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 colour wheels moving-Off, Fans mode-Auto, High-power mode-Off                                        |                 |
|              |   |   |   | 0 -9      | 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. („Shutter,Strobe“ channel 32/29/33/30 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden.</i> |                 |
|              |   |   |   | 10-14     | DMX input: Wired DMX *                                                                                                                                                                                                                        | step            |
|              |   |   |   | 15-19     | DMX input: Wireless DMX *                                                                                                                                                                                                                     | step            |
|              |   |   |   |           | * function is active only 10 seconds after switching the fixture on                                                                                                                                                                           |                 |
|              |   |   |   | 20-24     | Graphic display: On                                                                                                                                                                                                                           | step            |
|              |   |   |   | 25-29     | Graphic display: Off                                                                                                                                                                                                                          | step            |
|              |   |   |   | 30-39     | 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 colour wheels moving: On                                                                                                                                                                                                       | step            |
|              |   |   |   | 65-69     | Blackout while colour wheels moving: Off                                                                                                                                                                                                      | step            |
|              |   |   |   | 70-79     | Reserved                                                                                                                                                                                                                                      |                 |
|              |   |   |   | 80-84     | Fans mode: Auto                                                                                                                                                                                                                               | step            |
|              |   |   |   | 85-89     | Fans mode: High                                                                                                                                                                                                                               | step            |
|              |   |   |   | 90-94     | High-power mode: On                                                                                                                                                                                                                           | step            |
|              |   |   |   | 95-99     | High power mode: Off                                                                                                                                                                                                                          | step            |
|              |   |   |   | 100-104   | Reserved                                                                                                                                                                                                                                      |                 |
|              |   |   |   | 105-109   | Dimmer curve: Super Square Law                                                                                                                                                                                                                | 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            |

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| Mode/channel |          |          |          | DMX Value | Function                                                                                                                                                                                                                              | Type of control |
|--------------|----------|----------|----------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1            | 2        | 3        | 4        |           |                                                                                                                                                                                                                                       |                 |
|              |          |          |          | 160-169   | Reserved                                                                                                                                                                                                                              |                 |
|              |          |          |          | 170-174   | Pan reset                                                                                                                                                                                                                             | step            |
|              |          |          |          | 175-179   | Tilt reset                                                                                                                                                                                                                            | step            |
|              |          |          |          | 180-189   | Zoom/focus/frost reset                                                                                                                                                                                                                | step            |
|              |          |          |          | 190-199   | Barndoors/scrims reset                                                                                                                                                                                                                | step            |
|              |          |          |          | 200-209   | Total fixture reset (including pan/tilt)                                                                                                                                                                                              | step            |
|              |          |          |          | 210-239   | Reserved                                                                                                                                                                                                                              |                 |
|              |          |          |          | 240       | Disabled "Quiet mode"                                                                                                                                                                                                                 | step            |
|              |          |          |          | 241-255   | "Quiet mode" - fan noise control from min. to max.                                                                                                                                                                                    | proportional    |
| <b>7</b>     | <b>7</b> | <b>7</b> | <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>8</b> | <b>8</b> | <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>9</b> | <b>9</b> | <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>                                                                                              |                 |

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| Mode/channel |    |    |    | DMX Value | Function                                                                                                                                                                                                                                                                           | Type of control |
|--------------|----|----|----|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1            | 2  | 3  | 4  |           |                                                                                                                                                                                                                                                                                    |                 |
|              |    |    |    |           | 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)<br>31-35% (YELLOW)<br>36-40% (ORANGE)<br>Pan/tilt/zoom is set at 128 DMX (50%), Dimmer is open at 255 DMX (100%).                                          |                 |
|              |    |    |    |           | 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” 33/30 must be at range: 0-31 DMX). Corresponding menu items are permanently overwritten. |                 |
|              |    |    |    | 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           | 10 | 10 | 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 | Random colour selection by audio control                                                                                                                                                                                                                                           | step            |
|              |    |    |    |           | (Set microphone sensitivity in menu „Personality”)                                                                                                                                                                                                                                 |                 |
|              |    |    |    | 250 - 255 | Auto random colour selection from fast to slow                                                                                                                                                                                                                                     | proportional    |
| 11           | *  | 11 | *  |           | <b>Colour wheel 1 - fine positioning</b>                                                                                                                                                                                                                                           |                 |
|              |    |    |    | 0 - 255   | Fine positioning (0=default)                                                                                                                                                                                                                                                       | proportional    |
| 12           | 11 | 12 | 11 |           | <b>Colour wheel 2</b>                                                                                                                                                                                                                                                              |                 |
|              |    |    |    |           | <b>Continual positioning</b>                                                                                                                                                                                                                                                       |                 |

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| Mode/channel |    |    |    | DMX Value | Function                                                                             | Type of control |
|--------------|----|----|----|-----------|--------------------------------------------------------------------------------------|-----------------|
| 1            | 2  | 3  | 4  |           |                                                                                      |                 |
|              |    |    |    | 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            |
|              |    |    |    |           | <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 | Random colour selection by audio control                                             | step            |
|              |    |    |    |           | (Set microphone sensitivity in menu „Personality“)                                   |                 |
|              |    |    |    | 250 - 255 | Auto random colour selection from fast to slow                                       | proportional    |
| 13           | *  | 13 | *  |           | <b>Colour wheel 2 - fine positioning</b>                                             |                 |
|              |    |    |    | 0 - 255   | Fine positioning (0=default)                                                         | proportional    |
| 14           | 12 | 14 | 12 |           | <b>Cyan</b>                                                                          |                 |
|              |    |    |    | 0 - 255   | Cyan from min. saturation --> full cyan (0=default)                                  | proportional    |
| 15           | 13 | 15 | 13 |           | <b>Magenta</b>                                                                       |                 |
|              |    |    |    | 0 - 255   | Magenta from min. saturation --> full magenta (0=default)                            | proportional    |
| 16           | 14 | 16 | 14 |           | <b>Yellow</b>                                                                        |                 |
|              |    |    |    | 0 - 255   | Yellow from min. saturation --> full yellow (0=default)                              | proportional    |
| 17           | 15 | 17 | 15 |           | <b>CTO</b>                                                                           |                 |
|              |    |    |    | 0 - 255   | CTO from 6700K --> 3000K (0=default)                                                 | proportional    |
| *            | *  | 18 | 16 |           | <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    |
| 18           | 16 | 19 | 17 |           | <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: 9-17/15/18/16 (depends on mode)</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            |

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| Mode/channel |   |   |   | DMX Value | Function                         | Type of control |
|--------------|---|---|---|-----------|----------------------------------|-----------------|
| 1            | 2 | 3 | 4 |           |                                  |                 |
|              |   |   |   | 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            |
|              |   |   |   | 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            |

# DMX protocol

| Mode/channel |    |    |    | DMX Value | Function                                                                             | Type of control |
|--------------|----|----|----|-----------|--------------------------------------------------------------------------------------|-----------------|
| 1            | 2  | 3  | 4  |           |                                                                                      |                 |
|              |    |    |    | 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            |
|              |    |    |    | 129-130   | Filter 778 (Millennium Gold)                                                         | step            |
|              |    |    |    | 131-132   | Filter 793 (Vanity Fair)                                                             | step            |
|              |    |    |    | 133-255   | Reserved                                                                             |                 |
| 19           | 17 | 20 | 18 |           | <b>Effects Speed</b>                                                                 |                 |
|              |    |    |    | 0-255     | Speed of CMY+CTO movement from max. to min. (0=default)                              | proportional    |
| 20           | 18 | 21 | 19 |           | <b>CMY/CTO/Colour wheels/Barndoors/Zoom/Frost time</b>                               |                 |
|              |    |    |    | 0         | Function is off (0=default)                                                          | step            |
|              |    |    |    | 1 - 255   | Time of CMY, CTO, colour wheels,barndoors, zoom, frost movement (0.1sec-->25.5sec.)  | proportional    |
| 21           | 19 | 22 | 20 |           | <b>Scrim positioning</b>                                                             |                 |
|              |    |    |    | 0         | No function (0=default)                                                              | step            |
|              |    |    |    | 1-255     | Scrim inserting (0.5%-->100%)                                                        | proportional    |
| 22           | 20 | 23 | 21 |           | <b>Scrim indexing</b>                                                                |                 |
|              |    |    |    | 0-255     | Scrim indexing 0°-360° /1.4°per 1 DMX/, ( 128=default)                               |                 |
|              |    |    |    |           | (0 DMX=0°, 64DMX=90°, 128DMX=180°, 192DMX=270°, 255DMX=360°)                         | proportional    |
| 23           | 21 | 24 | 22 |           | <b>Frost</b>                                                                         |                 |
|              |    |    |    | 0         | Open (0=default)                                                                     | step            |
|              |    |    |    |           | Frost cannot stay in intermediate position, it will auto-move to full/open position. |                 |
|              |    |    |    |           | <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    |
|              |    |    |    | 170-172   | Open                                                                                 | step            |
|              |    |    |    |           | <b>Combined Frost</b>                                                                |                 |
|              |    |    |    | 173-222   | Medium Frost from 0% to 100% (Light Frost inserted)                                  | proportional    |
|              |    |    |    | 223-225   | 100% Medium Frost (Light Frost inserted)                                             | step            |
|              |    |    |    | 226-235   | Pulse closing from slow to fast                                                      | proportional    |
|              |    |    |    | 236-245   | Pulse opening from fast to slow                                                      | proportional    |
|              |    |    |    | 246-255   | Ramping from fast to slow                                                            | proportional    |
| 24           | 22 | 25 | 23 |           | <b>Zoom</b>                                                                          |                 |
|              |    |    |    | 0 - 255   | Zoom from max. to min. beam angle (128=default)                                      | proportional    |

# DMX protocol

| Mode/channel                                                     |    |    |    | DMX Value | Function                                                      | Type of control |
|------------------------------------------------------------------|----|----|----|-----------|---------------------------------------------------------------|-----------------|
| 1                                                                | 2  | 3  | 4  |           |                                                               |                 |
| 25                                                               | *  | 26 | *  |           | <b>Zoom - fine</b>                                            |                 |
|                                                                  |    |    |    | 0-255     | Fine zooming (0=default)                                      | proportional    |
| 26                                                               | 23 | 27 | 24 |           | <b>Edge colour correction</b>                                 |                 |
|                                                                  |    |    |    | 0-255     | Fine correction of the colour of the image edge (128=default) | proportional    |
| 27                                                               | 24 | 28 | 25 |           | <b>Barndoors rotation</b>                                     |                 |
|                                                                  |    |    |    | 0-255     | Rotation 0°--> 180° (128=default)                             | proportional    |
| 28                                                               | 25 | 29 | 26 |           | <b>Barndoor 1 - movement</b>                                  |                 |
|                                                                  |    |    |    | 0-255     | Movement from Outward to Inward (0=default)                   | proportional    |
| 29                                                               | 26 | 30 | 27 |           | <b>Barndoor 2 - movement</b>                                  |                 |
|                                                                  |    |    |    | 0-255     | Movement from Outward to Inward (0=default)                   | proportional    |
| 30                                                               | 27 | 31 | 28 |           | <b>Barndoor 3 - movement</b>                                  |                 |
|                                                                  |    |    |    | 0-255     | Movement from Outward to Inward (0=default)                   | proportional    |
| 31                                                               | 28 | 32 | 29 |           | <b>Barndoor 4 - movement</b>                                  |                 |
|                                                                  |    |    |    | 0-255     | Movement from Outward to Inward (0=default)                   | proportional    |
| 32                                                               | 29 | 33 | 30 |           | <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            |
| 33                                                               | 30 | 34 | 31 |           | <b>Dimmer intensity</b>                                       |                 |
|                                                                  |    |    |    | 0 - 255   | Dimmer intensity from 0% to 100% (0=default)                  | proportional    |
| 34                                                               | *  | 35 | *  |           | <b>Dimmer intensity - fine</b>                                |                 |
|                                                                  |    |    |    | 0 - 255   | Fine dimming (0=default)                                      | proportional    |
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| All Specifications subject to change without notice              |    |    |    |           |                                                               |                 |

| <b>Robin Esprite PC/Robin Esprite Fresnel - Colours on Virtual Colour Wheel</b> |                                 |                                 |                 |                        |                       |                    |
|---------------------------------------------------------------------------------|---------------------------------|---------------------------------|-----------------|------------------------|-----------------------|--------------------|
| <b>Colour name</b>                                                              | <b>Col.<br/>Wheel 1<br/>DMX</b> | <b>Col.<br/>Wheel 2<br/>DMX</b> | <b>Cyan DMX</b> | <b>Magenta<br/>DMX</b> | <b>Yellow<br/>DMX</b> | <b>CTO<br/>DMX</b> |
| Filter 4 (Medium Bastard Amber)                                                 | 0                               | 0                               | 0               | 134                    | 150                   | 225                |
| Filter 10 (Medium Yellow)                                                       | 0                               | 0                               | 0               | 45                     | 210                   | 255                |
| Filter 19 (Fire)                                                                | 154                             | 0                               | 0               | 210                    | 0                     | 0                  |
| Filter 26 (Bright Red)                                                          | 130                             | 0                               | 0               | 45                     | 255                   | 90                 |
| Filter 58 (Lavender)                                                            | 0                               | 0                               | 10              | 205                    | 93                    | 101                |
| Filter 68 (Sky Blue)                                                            | 0                               | 154                             | 165             | 120                    | 0                     | 0                  |
| Filter 71 (Tokyo Blue)                                                          | 144                             | 0                               | 0               | 0                      | 0                     | 0                  |
| Filter 79 (Just Blue)                                                           | 0                               | 154                             | 165             | 135                    | 0                     | 0                  |
| Filter 88 (Lime Green)                                                          | 0                               | 142                             | 0               | 90                     | 0                     | 225                |
| Filter 90 (Dark Yellow Green)                                                   | 0                               | 142                             | 201             | 0                      | 147                   | 0                  |
| Filter 100 (Spring Yellow)                                                      | 0                               | 0                               | 0               | 0                      | 210                   | 165                |
| Filter 101 (Yellow)                                                             | 0                               | 0                               | 0               | 75                     | 210                   | 255                |
| Filter 102 (Light Amber)                                                        | 0                               | 0                               | 0               | 60                     | 165                   | 240                |
| Filter 103 (Straw)                                                              | 0                               | 0                               | 0               | 0                      | 150                   | 240                |
| Filter 104 (Deep Amber)                                                         | 0                               | 0                               | 0               | 150                    | 225                   | 210                |
| Filter 105 (Orange)                                                             | 0                               | 0                               | 0               | 195                    | 240                   | 150                |
| Filter 106 (Primary Red)                                                        | 154                             | 0                               | 0               | 240                    | 0                     | 15                 |
| Filter 111 (Dark Pink)                                                          | 0                               | 0                               | 0               | 182                    | 164                   | 255                |
| Filter 115 (Peacock Blue)                                                       | 0                               | 0                               | 246             | 0                      | 185                   | 0                  |
| Filter 116 (Medium Blue-Green)                                                  | 0                               | 0                               | 239             | 0                      | 193                   | 0                  |
| Filter 117 (Steel Blue)                                                         | 0                               | 0                               | 180             | 90                     | 165                   | 15                 |
| Filter 118 (Light Blue)                                                         | 0                               | 0                               | 225             | 0                      | 165                   | 30                 |
| Filter 119 (Dark Blue)                                                          | 0                               | 0                               | 255             | 120                    | 0                     | 0                  |
| Filter 120 (Deep Blue)                                                          | 0                               | 154                             | 255             | 30                     | 0                     | 105                |
| Filter 121 (Filter Green)                                                       | 0                               | 142                             | 135             | 0                      | 210                   | 0                  |
| Filter 128 (Bright Pink)                                                        | 0                               | 0                               | 52              | 235                    | 194                   | 113                |
| Filter 131 (Marine Blue)                                                        | 0                               | 0                               | 210             | 15                     | 135                   | 30                 |
| Filter 132 (Medium Blue)                                                        | 0                               | 0                               | 240             | 0                      | 15                    | 105                |
| Filter 134 (Golden Amber)                                                       | 0                               | 0                               | 49              | 201                    | 237                   | 28                 |
| Filter 135 (Deep Golden Amber)                                                  | 0                               | 0                               | 49              | 223                    | 254                   | 40                 |
| Filter 136 (Pale Lavender)                                                      | 0                               | 0                               | 64              | 198                    | 131                   | 0                  |
| Filter 137 (Special Lavender)                                                   | 0                               | 0                               | 34              | 159                    | 112                   | 0                  |
| Filter 138 (Pale Green)                                                         | 0                               | 0                               | 120             | 81                     | 201                   | 50                 |
| Filter 139 (Primary Green)                                                      | 166                             | 0                               | 0               | 0                      | 0                     | 240                |
| Filter 141 (Bright Blue)                                                        | 0                               | 0                               | 240             | 0                      | 45                    | 195                |
| Filter 147 (Apricot)                                                            | 0                               | 0                               | 0               | 182                    | 221                   | 0                  |
| Filter 148 (Bright Rose)                                                        | 0                               | 0                               | 0               | 225                    | 217                   | 0                  |
| Filter 152 (Pale Gold)                                                          | 0                               | 0                               | 57              | 190                    | 204                   | 0                  |
| Filter 154 (Pale Rose)                                                          | 0                               | 0                               | 57              | 185                    | 189                   | 67                 |
| Filter 157 (Pink)                                                               | 0                               | 0                               | 59              | 224                    | 223                   | 0                  |
| Filter 158 (Deep Orange)                                                        | 0                               | 0                               | 0               | 220                    | 255                   | 0                  |
| Filter 162 (Bastard Amber)                                                      | 0                               | 0                               | 0               | 165                    | 195                   | 0                  |
| Filter 164 (Flame Red)                                                          | 154                             | 0                               | 0               | 240                    | 30                    | 195                |
| Filter 165 (Daylight Blue)                                                      | 0                               | 0                               | 210             | 0                      | 0                     | 75                 |
| Filter 169 (Lilac Tint)                                                         | 0                               | 0                               | 87              | 202                    | 169                   | 0                  |

| <b>Colour name</b>                     | <b>Col.<br/>Wheel 1<br/>DMX</b> | <b>Col.<br/>Wheel 2<br/>DMX</b> | <b>Cyan DMX</b> | <b>Magenta<br/>DMX</b> | <b>Yellow<br/>DMX</b> | <b>CTO<br/>DMX</b> |
|----------------------------------------|---------------------------------|---------------------------------|-----------------|------------------------|-----------------------|--------------------|
| Filter 170 (Deep Lavender)             | 0                               | 0                               | 98              | 200                    | 133                   | 0                  |
| Filter 172 (Lagoon Blue)               | 0                               | 0                               | 225             | 30                     | 135                   | 15                 |
| Filter 179 (Chrome Orange)             | 0                               | 0                               | 57              | 190                    | 240                   | 0                  |
| Filter 180 (Dark Lavender)             | 0                               | 0                               | 175             | 185                    | 0                     | 0                  |
| Filter 181 (Congo Blue)                | 0                               | 0                               | 195             | 225                    | 0                     | 15                 |
| Filter 197 (Alice Blue)                | 0                               | 154                             | 225             | 0                      | 0                     | 60                 |
| Filter 201 (Full C.T. Blue)            | 0                               | 0                               | 180             | 0                      | 105                   | 60                 |
| Filter 202 (Half C.T. Blue)            | 0                               | 0                               | 168             | 0                      | 37                    | 118                |
| Filter 203 (Quarter C.T. Blue)         | 0                               | 0                               | 135             | 45                     | 120                   | 0                  |
| Filter 204 (Full C.T. Orange)          | 0                               | 0                               | 0               | 195                    | 240                   | 30                 |
| Filter 205 (Half C.T. Orange)          | 0                               | 0                               | 90              | 180                    | 210                   | 0                  |
| Filter 206 (Quarter C.T. Orange)       | 0                               | 0                               | 0               | 165                    | 163                   | 30                 |
| Filter 247 (Filter Minus Green)        | 0                               | 0                               | 0               | 184                    | 131                   | 20                 |
| Filter 248 (Half Minus Green)          | 0                               | 0                               | 48              | 134                    | 110                   | 24                 |
| Filter 281 (Three Quarter C.T. Blue)   | 0                               | 0                               | 180             | 0                      | 105                   | 120                |
| Filter 285 (Three Quarter C.T. Orange) | 0                               | 0                               | 0               | 173                    | 234                   | 90                 |
| Filter 352 (Glacier Blue)              | 0                               | 0                               | 210             | 0                      | 105                   | 60                 |
| Filter 353 (Lighter Blue)              | 0                               | 0                               | 220             | 0                      | 144                   | 0                  |
| Filter 715 (Cabana Blue)               | 0                               | 154                             | 255             | 0                      | 0                     | 105                |
| Filter 778 (Millennium Gold)           | 0                               | 0                               | 0               | 215                    | 255                   | 0                  |
| Filter 793 (Vanity Fair)               | 0                               | 0                               | 15              | 225                    | 0                     | 255                |