

DMX protocol

| Robin LINee - DMX protocol | | | | | | |
|---|---|---|-----------|--|-----------------|--|
| Version: 1.3 Mode 1 -Basic, Mode 2 -Advanced, Mode 3 -Full RGB | | | | | | |
| Mode/channel | | | DMX Value | Function | Type of control | |
| 1 | 2 | 3 | | | | |
| 1 | 1 | 1 | | Pan (8 bit) | | |
| | | | 0 - 255 | Pan movement by 540°/360° (128=default) | proportional | |
| 2 | 2 | 2 | | Pan Fine (16 bit) | | |
| | | | 0 - 255 | Fine control of pan movement (0=default) | proportional | |
| 3 | 3 | 3 | | Tilt (8 bit) | | |
| | | | 0 - 255 | Tilt movement by 360° (128=default) | proportional | |
| 4 | 4 | 4 | | Tilt fine (16 bit) | | |
| | | | 0 - 255 | Fine control of tilt movement (0=default) | proportional | |
| 5 | 5 | 5 | | Pan control | | |
| | | | 0 | Pan range 540°, shortcut Off (0=default) | step | |
| | | | 1 | Pan range 360°, shortcut On | step | |
| | | | 2-127 | No function | | |
| | | | 128-189 | Continuous rotation fast -> slow , Forwards | proportional | |
| | | | 190-193 | Stop rotation | step | |
| | | | 194-255 | Continuous rotation slow -> fast , Backwards | proportional | |
| 6 | 6 | 6 | | Tilt control | | |
| | | | 0 | Tilt range 360°, Shortcut Off (0=default) | step | |
| | | | 1 | Tilt range 360°, Shortcut On | step | |
| | | | 2-127 | No function | | |
| | | | 128-189 | Continuous rotation fast -> slow , Forwards | proportional | |
| | | | 190-193 | Stop rotation | step | |
| | | | 194-255 | Continuous rotation slow -> fast , Backwards | proportional | |
| 7 | 7 | 7 | | Pan/Tilt speed , Pan/Tilt time | | |
| | | | 0 | Max. speed-Standard Mode (0=default) | step | |
| | | | | P./T. speed-set Speed Mode in menu: Pan/Tilt Mode | | |
| | | | 1 - 255 | Speed from max. to min. | proportional | |
| | | | | P./T. time - set Time Mode in menu: Pan/Tilt Mode | | |
| | | | 1 - 255 | Time from 0.1 s to 25.5 sec. | proportional | |
| 8 | 8 | 8 | | Power/Special functions | | |
| | | | 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 22/29 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 | |
| | | | 30-34 | RGBW colour mixing mode | step | |
| | | | 35-39 | CMY colour mixing mode | step | |
| | | | 40-44 | Pan/Tilt speed mode | step | |
| | | | 45 - 49 | Pan/Tilt time mode | step | |
| | | | 50 -54 | Blackout while pan/tilt moving | step | |
| | | | 55 -59 | Disabled blackout while pan/tilt moving | step | |
| | | | 60 - 64 | Dimmer curve-square law | step | |
| | | | 65 - 69 | Dimmer curve-linear | step | |

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|--------------|-----------|-----------|-----------|---|-----------------|
| 1 | 2 | 3 | | | |
| | | | 70 - 74 | Fans mode: Auto | step |
| | | | 75 - 79 | Fans mode: High | step |
| | | | 80 -109 | Reserved | |
| | | | 110-114 | Kling-Net On | step |
| | | | 115-119 | Kling-Net Off | step |
| | | | 120-129 | Reserved | |
| | | | | <i>To activate following functions, stop in DMX value for at least 3 seconds.</i> | |
| | | | 130 - 139 | Fixture reset (except pan/tilt) | |
| | | | 140 - 149 | Pan/Tilt reset | step |
| | | | 150 - 159 | Zoom reset | step |
| | | | 160 - 169 | MBEs reset | step |
| | | | 170 - 199 | Reserved | step |
| | | | 200 - 209 | Total fixture reset | step |
| | | | 210 - 255 | Reserved | |
| 9 | 9 | 9 | | Virtual colour wheel | |
| | | | 0 | No function (0=default) | step |
| | | | 1-2 | White 2700 K | step |
| | | | 3 | White 2700 K (Halogen lamp mode**) | step |
| | | | 4-5 | White 3200 K | step |
| | | | 6 | White 3200 K (Halogen lamp mode**) | step |
| | | | 7-9 | White 4200 K | step |
| | | | 10-12 | White 5600 K | step |
| | | | 13-15 | White 8000 K | step |
| | | | 16 | Blue (Blue=full, Red+Green+White=0) | step |
| | | | 17-55 | Red=0, Green->up,Blue =full, White=0 | proportional |
| | | | 56 | Light Blue (Red=0, Green=full, Blue =full, White=0) | step |
| | | | 57 - 95 | Red=0, Green=full, Blue->down, White=0 | proportional |
| | | | 96 | Green (Red=0, Green=full, Blue =0, White=0) | step |
| | | | 97 – 134 | Red->up, Green=full, Blue=0, White=0 | proportional |
| | | | 135 | Yellow (Red=full, Green=full, Blue=0, White=0) | step |
| | | | 136 - 174 | Red=full, Green->down, Blue=0, White=0 | proportional |
| | | | 175 | Red(Red=full, Green=0, Blue=0, White=0) | step |
| | | | 176 -214 | Red=full, Green=0, Blue->up, White=0 | proportional |
| | | | 215 | Magenta (Red=full, Green=0, Blue=full, White=0) | step |
| | | | 216 - 246 | Red -> down, Green=0, Blue=full, White=0 | proportional |
| | | | 247 | Blue (Red=0, Green=0, Blue=full, White=0) | step |
| | | | 248-251 | Rainbow effect (with fade time)from slow-> fast | proportional |
| | | | 252-255 | Rainbow effect(without fade time) from slow-> fast | proportional |
| 10 | 10 | 10 | | Red/Cyan (8 bit)- all pixels*** | |
| | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| * | 11 | 11 | | Red/Cyan (16bit)- all pixels*** | |
| | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| 11 | 12 | 12 | | Green/Magenta (8 bit) - all pixels *** | |
| | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| * | 13 | 13 | | Green/Magenta (16bit) - all pixels*** | |
| | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| 12 | 14 | 14 | | Blue/Yellow (8 bit) - all pixels *** | |
| | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| * | 15 | 15 | | Blue/ Yellow (16bit) -all pixels*** | |

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| Mode/channel | | | DMX Value | Function | Type of control |
|--------------|-----------|-----------|-----------|--|-----------------|
| 1 | 2 | 3 | | | |
| | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| 13 | 16 | 16 | | White (8 bit) - all pixels | |
| | | | | <i>If RGBW mode is selected:</i> | |
| | | | 0-255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| | | | | <i>If CMY mode is selected:</i> | |
| | | | 0 - 255 | No function | |
| * | 17 | 17 | | White (16 bit) - all pixels | |
| | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| 14 | 18 | 18 | | CTC | |
| | | | 0-255 | Colour temperature correction for from cool col. to warm colour | proportional |
| 15 | 19 | 19 | | Colour Mix control | |
| | | | | <i>The channel defines relation between color channels</i> | |
| | | | | <i>Global = Global Colours (RGBW, CTO, Virtual Color Wheel)</i> | |
| | | | | <i>Pixel = Pixel Colors (RGB individual pixels or Kling-Net)</i> | |
| | | | 0-9 | Global colors (Global has priority) | |
| | | | 10-19 | Maximum mode (highest values have priority) | step |
| | | | 20-29 | Minimum mode (lowest values have priority) | step |
| | | | 30-39 | Multiply mode (multiply Global and Pixel) | step |
| | | | 40-49 | Addition mode (Global + Pixel) (45=default) | step |
| | | | 50-59 | Subtraction mode (Global – Pixel) | step |
| | | | 60-69 | Inverted Subtraction mode (Pixel – Global) | step |
| | | | 70-79 | Coloured background | step |
| | | | 80-127 | Reserved | |
| | | | 128 | Global colors (Global has priority) | step |
| | | | 129-254 | Crossfade (crossfade between Global and Pixel) | proportional |
| | | | 255 | Pixel colors (Pixel has priority) | step |
| 16 | 20 | 20 | | Pixel effects | |
| | | | 0-2 | No function (0=default) | |
| | | | 3-4 | Effect 1 | step |
| | | | 5-6 | Effect 2 | step |
| | | | : | : | : |
| | | | 171-172 | Effect 85 | step |
| | | | 173-255 | Reserved | |
| 17 | 21 | 21 | | Pixel effects speed | |
| | | | 0-127 | Speed from min. to max. (0=default) | proportional |
| | | | 128-255 | Speed from max. to min. (opposite direction) | proportional |
| 18 | 22 | 22 | | Pixel effects fade | |
| | | | 0 | Without fade time (0=default) | step |
| | | | 1-255 | Fade time from min. to max. | proportional |
| * | 23 | 23 | | MBE 1 (Multiple Beam Engine 1) | |
| | | | 0 | Open position -without Effect (0=default) | step |
| | | | 1 - 127 | Forwards rotation from fast to slow | proportional |
| | | | 128 | No rotation -Effect inserted | step |
| | | | 129-255 | Backwards rotation from slow to fast | proportional |
| * | 24 | 24 | | MBE 2 (Multiple Beam Engine 2) | |
| | | | 0 | Open position-without Effect (0=default) | step |
| | | | 1 - 127 | Forwards rotation from fast to slow | proportional |
| | | | 128 | No rotation-Effect inserted | step |
| | | | 129-255 | Backwards rotation from slow to fast | proportional |

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|--------------|----|----|-----------|--|-----------------|
| 1 | 2 | 3 | | | |
| * | 25 | 25 | | MBE 3 (Multiple Beam Engine 3) | |
| | | | 0 | Open position-without Effect (0=default) | step |
| | | | 1 - 127 | Forwards rotation from fast to slow | proportional |
| | | | 128 | No rotation-Effect inserted | step |
| | | | 129-255 | Backwards rotation from slow to fast | proportional |
| 19 | 26 | 26 | | MBE effects | |
| | | | 0-2 | Open position -without Effect (0=default) | step |
| | | | 3-4 | All MBEs together (synchronous rotation - set rotation at channel 20/27) | step |
| | | | 5-6 | Effect 1 | step |
| | | | 7-8 | Effect 2 | step |
| | | | 9-10 | Effect 3 | step |
| | | | 11-12 | Effect 4 | step |
| | | | 13-14 | Effect 5 | step |
| | | | 15-16 | Effect 6 | step |
| | | | 17-18 | Effect 7 | step |
| | | | 19-20 | Effect 8 | step |
| | | | 21-22 | Effect 9 | step |
| | | | 23-24 | Effect 10 | step |
| | | | 25-255 | Reserved | |
| 20 | 27 | 27 | | MBE effect rotation | |
| | | | | <i>If "All MBEs together" is selected at channel 19/26</i> | |
| | | | 0 | No rotation | step |
| | | | 1 - 127 | Forwards rotation from fast to slow | proportional |
| | | | 128 | No rotation - MBEs inserted (128=default) | step |
| | | | 129-255 | Backwards rotation from slow to fast | proportional |
| | | | | <i>If "Effect 1- 10" is selected at channel 19/26</i> | |
| | | | 0-255 | Effects proportional rotation | proportional |
| 21 | 28 | 28 | | Zoom | |
| | | | 0-255 | Zoom from max. to min.beam angle (128=default) | proportional |
| 22 | 29 | 29 | | Shutter/ strobe | |
| | | | 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 |
| 23 | 30 | 30 | | Dimmer intensity (8 bit) | |
| | | | 0 - 255 | Dimmer intensity from 0% to 100% (0=default) | proportional |
| * | 31 | 31 | | Dimmer intensity - fine (16 bit) | |
| | | | 0 - 255 | Fine dimming (0=default) | proportional |
| * | * | 32 | | Red pixel 1 | |
| | | | 0-255 | Red LED saturation control 0-100% (0=default) | proportional |
| * | * | 33 | | Green pixel 1 | |
| | | | 0-255 | Green LED saturation control 0-100% (0=default) | proportional |
| * | * | 34 | | Blue pixel 1 | |
| | | | 0-255 | Blue LED saturation control 0-100% (0=default) | proportional |

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|--|---|----|-----------|---|-----------------|
| 1 | 2 | 3 | | | |
| * | * | 35 | | Red pixel 2 | |
| | | | 0-255 | Red LED saturation control 0-100% (0=default) | proportional |
| * | * | 36 | | Green pixel 2 | |
| | | | 0-255 | Green LED saturation control 0-100% (0=default) | proportional |
| * | * | 37 | | Blue pixel 2 | |
| | | | 0-255 | Blue LED saturation control 0-100% (0=default) | proportional |
| * | * | 38 | | Red pixel 3 | |
| | | | 0-255 | Red LED saturation control 0-100% (0=default) | proportional |
| * | * | 39 | | Green pixel 3 | |
| | | | 0-255 | Green LED saturation control 0-100% (0=default) | proportional |
| * | * | 40 | | Blue pixel 3 | |
| | | | 0-255 | Blue LED saturation control 0-100% (0=default) | proportional |
| * | * | 41 | | Red pixel 4 | |
| | | | 0-255 | Red LED saturation control 0-100% (0=default) | proportional |
| * | * | 42 | | Green pixel 4 | |
| | | | 0-255 | Green LED saturation control 0-100% (0=default) | proportional |
| * | * | 43 | | Blue pixel 4 | |
| | | | 0-255 | Blue LED saturation control 0-100% (0=default) | proportional |
| * | * | 44 | | Red pixel 5 | |
| | | | 0-255 | Red LED saturation control 0-100% (0=default) | proportional |
| * | * | 45 | | Green pixel 5 | |
| | | | 0-255 | Green LED saturation control 0-100% (0=default) | proportional |
| * | * | 46 | | Blue pixel 5 | |
| | | | 0-255 | Blue LED saturation control 0-100% (0=default) | proportional |
| ** In the Halogen lamp mode the Dimmer channel imitates behaviour of the halogen lamp during dimming | | | | | |
| *** Select RGB or CMY mixing mode on channel "Power/Special functions" | | | | | |
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