

DMX protocol

| Robin DL7S Profile - DMX protocol | | | | | | |
|---|---|---|---|-----------|---|-----------------|
| Version: 1.9 Mode 1 -CMY/RGB, Mode 2 -CMY/RGB reduced, Mode 3 -Seven colours, Mode 4 -Seven colours reduced | | | | | | |
| Mode/channel | | | | DMX Value | Function | Type of control |
| 1 | 2 | 3 | 4 | | | |
| 1 | 1 | 1 | 1 | 0 - 255 | Pan Pan movement by 540° (128=default) | proportional |
| 2 | 2 | 2 | 2 | 0 - 255 | Pan Fine Fine control of pan movement (0=default) | proportional |
| 3 | 3 | 3 | 3 | 0 - 255 | Tilt Tilt movement by 270° (128=default) | proportional |
| 4 | 4 | 4 | 4 | 0 - 255 | Tilt fine Fine control of tilt movement (0=default) | proportional |
| 5 | 5 | 5 | 5 | 0 | Pan/Tilt speed , Pan/Tilt time Max. speed-Standard Mode (0=default) | step |
| | | | | 1 - 255 | P./T. speed-set Speed Mode in menu: Pan/Tilt Mode Speed from max. to min. | proportional |
| | | | | 1 - 255 | P./T. time - set Time Mode in menu: Pan/Tilt Mode Time from 0.1 s to 25.5 sec. | proportional |
| 6 | 6 | 6 | 6 | 0 - 9 | Power/Special functions 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 49/41/57/45 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 | 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 | Blackout while gobo wheels moving | step |
| | | | | 65-69 | Disabled blackout while gobo wheels moving | step |
| | | | | 70-74 | Fans mode: Auto | step |
| | | | | 75-79 | Fans mode: High | step |
| | | | | 80-84 | Dimmer curve: Square law | step |
| | | | | 85-89 | Dimmer curve: Linear | step |
| | | | | 90-129 | 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 | Reserved | step |
| | | | | 160 - 169 | Gobo wheels reset | step |
| | | | | 170 - 179 | Reserved | |
| | | | | 180 - 189 | Zoom/focus/frost/prism reset | step |
| | | | | 190 - 199 | iris /framing shutters/effect wheel reset | step |

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| 1 | 2 | 3 | 4 | | | |
| | | | | 200 - 209 | Total fixture reset | step |
| | | | | 210-224 | Reserved | |
| | | | | | The following RoboSpot related commands are only applicable when the RoboSpot is connected: | |
| | | | | 225 - 229 | RoboSpot enabled | step |
| | | | | 230 - 234 | RoboSpot disabled - except handle faders and pan/tilt | step |
| | | | | 235 - 239 | RoboSpot fully disabled except pan/tilt | step |
| | | | | 240 | Disable "Theatre mode" | step |
| | | | | 241 - 255 | "Theatre mode" - fan noise control from min. to max. | proportional |
| 7 | 7 | 7 | 7 | | Colour functions | |
| | | | | 0 | No function (0=default) <i>To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overridden</i> | |
| | | | | 1-4 | Clear extended Special/Color settings* * | step |
| | | | | 5-9 | Reserved | |
| | | | | 10-14 | UV stability On | step |
| | | | | 15-19 | UV stability Off | step |
| | | | | 20-24 | Wavelength correction On | step |
| | | | | 25-29 | Wavelength correction Off | step |
| | | | | 30-34 | Colour calibration mode On | step |
| | | | | 35-39 | Colour calibration mode Off | step |
| | | | | 40-44 | Colour mixing mode: CMY | step |
| | | | | 45-49 | Colour mixing mode: RGB | step |
| | | | | 50-54 | Colour mixing mode 7 colours On (mode 3 and 4 only) | step |
| | | | | 55-59 | Colour mixing mode 7 colours Off (mode 3 and 4 only) | step |
| | | | | 60-64 | Output uniformity On (at selected CRI - (DMX values 151-155)) | step |
| | | | | 65-69 | Output uniformity Off | step |
| | | | | 70-74 | Output mode: CRI | step |
| | | | | 75-79 | Output mode: Intensity | step |
| | | | | | The Tungsten effects influence whites 2700K-4200K at CTC channel. | |
| | | | | 80-84 | Tungsten effect simulation (750W) On | step |
| | | | | 85-89 | Tungsten effect simulation (1000W) On | step |
| | | | | 90-94 | Tungsten effect simulation (1200W) On | step |
| | | | | 95-99 | Tungsten effect simulation (2000W) On | step |
| | | | | 100-104 | Tungsten effect simulation (2500W) On | step |
| | | | | 105-109 | Tungsten effect simulation Off | step |
| | | | | 110-114 | Save user colour | step |
| | | | | | Output consistency (CRI output mode only) up to: | |
| | | | | 115 | 30°C | step |
| | | | | 116 | 31°C | step |
| | | | | 117 | 32°C | step |
| | | | | 118 | 33°C | step |
| | | | | 119 | 34°C | step |
| | | | | 120 | 35°C | step |
| | | | | 121 | 36°C | step |
| | | | | 122 | 37°C | step |
| | | | | 123 | 38°C | step |
| | | | | 124 | 39°C | step |

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| 1 | 2 | 3 | 4 | | | |
| | | | | 125 | 40°C | step |
| | | | | 126 | 41°C | step |
| | | | | 127 | 42°C | step |
| | | | | 128 | 43°C | step |
| | | | | 129 | 44°C | step |
| | | | | 130 | 45°C | step |
| | | | | 131 | 46°C | step |
| | | | | 132 | 47°C | step |
| | | | | 133 | 48°C | step |
| | | | | 134 | 49°C | step |
| | | | | 135 | 50°C | step |
| | | | | 136 | 51°C | step |
| | | | | 137 | 52°C | step |
| | | | | 138 | 53°C | step |
| | | | | 139 | 54°C | step |
| | | | | 140 | 55°C | step |
| | | | | 141 | 56°C | step |
| | | | | 142 | 57°C | step |
| | | | | 143 | 58°C | step |
| | | | | 144 | 59°C | step |
| | | | | 145 | 60°C | step |
| | | | | 146 | 61°C | step |
| | | | | 147 | 62°C | step |
| | | | | 148 | 63°C | step |
| | | | | 149 | 64°C | step |
| | | | | 150 | 65°C | step |
| | | | | | CRI selection (CRI output mode only) | |
| | | | | 151 | CRI=70 | step |
| | | | | 152 | CRI=75 | step |
| | | | | 153 | CRI=80 | step |
| | | | | 154 | CRI=85 | step |
| | | | | 155 | CRI=90+ | step |
| | | | | 156-159 | Reserved | |
| | | | | 160-164 | Chromatic white On | step |
| | | | | 165-169 | Chromatic white Off | step |
| | | | | 170-255 | Reserved | |
| 8 | 8 | 8 | 8 | | Virtual colour wheel | |
| | | | | 0 | No function (0=default) | step |
| | | | | 1-2 | Filter 4 (Medium Bastard Amber) | step |
| | | | | 3-4 | Filter 10 (Medium Yellow) | step |
| | | | | 5-6 | Filter 19 (Fire) | step |
| | | | | 7-8 | Filter 26 (Bright Red) | step |
| | | | | 9-10 | Filter 58 (Lavender) | step |
| | | | | 11-12 | Filter 68 (Sky Blue) | step |
| | | | | 13-14 | Filter 71 (Tokyo Blue) | step |
| | | | | 15-16 | Filter 79 (Just Blue) | step |
| | | | | 17-18 | Filter 88 (Lime Green) | step |
| | | | | 19-20 | Filter 90 (Dark Yellow Green) | step |

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| 1 | 2 | 3 | 4 | | | |
| | | | | 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 |
| | | | | 115-116 | Filter 247 (Filter Minus Green) | step |

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| 1 | 2 | 3 | 4 | | | |
| | | | | 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 |
| | | | | 133-191 | Reserved | step |
| | | | | 192-193 | Deep Red | step |
| | | | | 194-195 | Deep Blue | step |
| | | | | 196-197 | Orange | step |
| | | | | 198-199 | Green | step |
| | | | | 200-201 | Magenta | step |
| | | | | 202-203 | Congo Blue | step |
| | | | | 204-205 | Pink | step |
| | | | | 206-207 | Lavender | step |
| | | | | 208-209 | Laser Green | step |
| | | | | 210-211 | CTB | step |
| | | | | 212-213 | Minus 1/1 Green | step |
| | | | | 214-215 | Minus 1/2 Green | step |
| | | | | 216-217 | User colour 1 | step |
| | | | | 218-219 | User colour 2 | step |
| | | | | 220-221 | User colour 3 | step |
| | | | | 222-223 | User colour 4 | step |
| | | | | 224-225 | User colour 5 | step |
| | | | | 226-227 | User colour 6 | step |
| | | | | 228-229 | User colour 7 | step |
| | | | | 230-231 | User colour 8 | step |
| | | | | 232-233 | User colour 9 | step |
| | | | | 234-235 | User colour 10 | step |
| | | | | 236-245 | Rainbow effect (with fade time) from slow-> fast | proportional |
| | | | | 246-255 | Rainbow effect (without fade time) from slow-> fast | proportional |
| 9 | 9 | * | * | | Cyan/Red(8 bit) | |
| | | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| 10 | * | * | * | | Cyan/Red(16 bit) | |
| | | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| 11 | 10 | * | * | | Magenta/Green (8 bit) | |
| | | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| 12 | * | * | * | | Magenta/Green (16 bit) | |
| | | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| 13 | 11 | * | * | | Yellow/Blue (8 bit) | |
| | | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| 14 | * | * | * | | Yellow/Blue (16 bit) | |
| | | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| * | * | 9 | 9 | | Red (8 bit) | |
| | | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| * | * | 10 | * | | Red (16bit) | |

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|--------------|----|----|----|-----------|---|-----------------|
| 1 | 2 | 3 | 4 | | | |
| | | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| * | * | 11 | 10 | | Green (8 bit) | |
| | | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| * | * | 12 | * | | Green (16bit) | |
| | | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| * | * | 13 | 11 | | Blue (8 bit) | |
| | | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| * | * | 14 | * | | Blue(16bit) | |
| | | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| * | * | 15 | 12 | | Amber (8 bit) | |
| | | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| * | * | 16 | * | | Amber (16bit) | |
| | | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| * | * | 17 | 13 | | Cyan (8 bit) | |
| | | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| * | * | 18 | * | | Cyan (16bit) | |
| | | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| * | * | 19 | 14 | | Congo blue (8 bit) | |
| | | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| * | * | 20 | * | | Congo blue (16bit) | |
| | | | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| * | * | 21 | 15 | | Light green (8 bit) | |
| | | | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| * | * | 22 | * | | Light green (16bit) | |
| | | | | 0 - 255 | colour saturation control - fine (255=default) | proportional |
| 15 | 12 | 23 | 16 | | Colour temperature correction (CTC) | |
| | | | | 0-1 | 8000K | step |
| | | | | 2-64 | Colour temperature changing 7978K ->6622K (22K /1 DMX) | proportional |
| | | | | 65 | 6600K | step |
| | | | | 66-109 | Colour temperature changing 6578K ->5622K (22K/1 DMX) | proportional |
| | | | | 110 | 5600K (default) | step |
| | | | | 111-179 | Colour temperature changing 5580K ->4220K (20K/1 DMX) | proportional |
| | | | | 180 | 4200K | step |
| | | | | 181-229 | Colour temperature changing 4180K ->3220K (20K/1 DMX) | proportional |
| | | | | 230 | 3200K | step |
| | | | | 231-254 | Colour temperature changing 3180K ->2720K (20K /1 DMX) | proportional |
| | | | | 255 | 2700K | step |
| 16 | 13 | 24 | 17 | | Green correction | |
| | | | | 0 | Uncorrected white | step |
| | | | | 1-127 | Minus green --> uncorrected white | proportional |
| | | | | 128 | Uncorrected white (default) | step |
| | | | | 129-254 | Uncorrected white --> Plus green | proportional |
| | | | | 255 | Uncorrected white | step |
| 17 | 14 | 25 | 18 | | Colour mix control | |
| | | | | | <i>Defines relation between colour channels</i> | |
| | | | | | "Virtual" = Virtual Colours (Virtual Colour Wheel) | |
| | | | | | "Colour mix" = Colour channels (RGB/CMY/R,G,B,A,C,Congo Blue,Light green/CTC/ Green Correction) | |

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| 1 | 2 | 3 | 4 | | | |
| | | | | | Range 0-69 DMX - only for Output mode: CRI | |
| | | | | 0-9 | Virtual colours ("Virtual" has priority) | step |
| | | | | 10-19 | Maximum mode (highest values have priority) | step |
| | | | | 20-29 | Minimum mode (lowest values have priority) | step |
| | | | | 30-39 | Multiply mode (multiply Virtual and Colour mix) | step |
| | | | | 40-49 | Addition mode (Virtual + Colour mix) (45=default) | step |
| | | | | 50-59 | Subtraction mode (Virtual – Colour mix) | step |
| | | | | 60-69 | Inverted Subtraction mode (Colour mix-Virtual) | step |
| | | | | 70-79 | White Point Off (CTC+Green Cor.+Virtual Col.Wheel deactivated) | step |
| | | | | 80-128 | reserved | |
| | | | | | Range 129-255 DMX - for both Output modes: CRI and Intensity | |
| | | | | 129 | Virtual colours ("Virtual" has priority) | step |
| | | | | 130-254 | Crossfade (crossfade between Virtual and Colour mix) | proportional |
| | | | | 255 | Colour channels ("Colour mix" has priority) | step |
| 18 | 15 | 26 | 19 | | Speed of rot. Gobo selection | |
| | | | | 0-255 | Speed of rot. gobo selection from max. to min. (0=default) | proportional |
| 19 | 16 | 27 | 20 | | Stat. Gobo+Rot. Gobo carousel + Framing shutters +Zoom+Focus+Iris+Frost+Prism time | |
| | | | | 0 | Function is off (default) | step |
| | | | | 1 - 255 | Time of stat. Gobo, rot. Gobo, framing shutters, zoom, focus, iris and frost movement (0.1 sec-->25.5 sec.) | proportional |
| | | | | 1-50 | Time of prism movement (0.1 sec-->5 sec.) | proportional |
| 20 | 17 | 28 | 21 | | Effect wheel positioning | |
| | | | | 0-19 | No function (0=default) | step |
| | | | | 20-127 | Proportional indexing (73-center) | proportional |
| | | | | 128-170 | Ramping from open to full position (max-->min. speed) | proportional |
| | | | | 171-213 | Ramping from open to half position (max. --->min. speed) | proportional |
| | | | | 214-255 | Ramp. from half position to full position (max. --->min. speed) | proportional |
| 21 | 18 | 29 | 22 | | Effect wheel rotation | |
| | | | | 0 | No rotation | step |
| | | | | 1 - 127 | Forwards rotation from fast to slow | proportional |
| | | | | 128 | No rotation (128-default) | step |
| | | | | 129 - 255 | Backwards rotation from slow to fast | proportional |
| 22 | 19 | 30 | 23 | | Effect wheel animations | |
| | | | | 0-7 | No animation (0-default) | |
| | | | | | <i>Note : Set suitable DMX value at Focus channel to get desired animation. All animations were created at distance of 5 m from screen with zoom=128DMX, Focus value is different for each effect (focus value is stated in parentheses for this distance)</i> | |
| | | | | | <i>The following channels are blocked: Effect wheel positioning, Effect wheel rotation, Static gobo wheel, Rotating gobo wheel, Rot. Gobo indexing and rotation.</i> | |
| | | | | 8-9 | Macro 1 (Focus=101) | step |
| | | | | 10-11 | Macro 2 (Focus=101) | step |
| | | | | 12-13 | Macro 3 (Focus=152) | step |
| | | | | 14-15 | Macro 4 (Focus=152) | step |
| | | | | 16-17 | Macro 5 (Focus=152) | step |
| | | | | 18-19 | Macro 6 (Focus=145) | step |
| | | | | 20-21 | Macro 7 (Focus=145) | step |

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| 1 | 2 | 3 | 4 | | | |
| | | | | 22-23 | Macro 8 (Focus=145) | step |
| | | | | 24-25 | Macro 9 (Focus=114) | step |
| | | | | 26-27 | Macro 10 (Focus=104) | step |
| | | | | 28-255 | Reserved | |
| 23 | 20 | 31 | 24 | | Static gobo wheel | |
| | | | | | <i>In range 0-64 DMX is possible fine gobo positioning - set value at channel 24/32</i> | |
| | | | | | <u>Continual Positioning</u> | |
| | | | | 0 | Open/hole (0=default) | proportional |
| | | | | 7 | Gobo 1 | proportional |
| | | | | 14 | Gobo 2 | proportional |
| | | | | 21 | Gobo 3 | proportional |
| | | | | 28 | Gobo 4 | proportional |
| | | | | 36 | Gobo 5 | proportional |
| | | | | 43 | Gobo 6 | proportional |
| | | | | 50 | Gobo 7 | proportional |
| | | | | 57 | Gobo 8 | proportional |
| | | | | 64 | Open/hole | proportional |
| | | | | | <u>Positioning</u> | |
| | | | | 65-70 | Gobo 1 | step |
| | | | | 71-75 | Gobo 2 | step |
| | | | | 76-81 | Gobo 3 | step |
| | | | | 82-86 | Gobo 4 | step |
| | | | | 87-92 | Gobo 5 | step |
| | | | | 93-97 | Gobo 6 | step |
| | | | | 98-103 | Gobo 7 | step |
| | | | | 104-109 | Gobo 8 | step |
| | | | | | <u>Shaking gobos from slow to fast</u> | |
| | | | | 110-120 | Gobo 1 | proportional |
| | | | | 121-131 | Gobo 2 | proportional |
| | | | | 132-142 | Gobo 3 | proportional |
| | | | | 143-153 | Gobo 4 | proportional |
| | | | | 154-164 | Gobo 5 | proportional |
| | | | | 165-175 | Gobo 6 | proportional |
| | | | | 176-186 | Gobo 7 | proportional |
| | | | | 187-197 | Gobo 8 | proportional |
| | | | | 198-201 | Open/hole | step |
| | | | | 202 - 221 | Forwards gobo wheel rotation from fast to slow | proportional |
| | | | | 222 - 223 | No rotation | step |
| | | | | 224 - 243 | Backwards gobo wheel rotation from slow to fast | proportional |
| | | | | 244 - 249 | Random gobo selection by audio control* | step |
| | | | | | <i>*(Set microphone sensitivity in menu „Personality“)</i> | |
| | | | | 250 - 255 | Auto random gobo selection from fast to slow | proportional |
| 24 | * | 32 | * | | Static gobo wheel-fine | |
| | | | | 0 - 255 | Fine positioning (0=default) | proportional |
| 25 | 21 | 33 | 25 | | Rotating gobo wheel | |
| | | | | | <i>In the range of 0-59 DMX the gobo selection speed is controlled by the "Speed of rot. Gobo selection" channel.</i> | |
| | | | | | <u>Index - set indexing on channel 26/22/33/26</u> | |

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|--------------|-----------|-----------|-----------|-----------|---|-----------------|
| 1 | 2 | 3 | 4 | | | |
| | | | | 0-4 | Open/hole (0=default) | step |
| | | | | 5-8 | Gobo 1 | step |
| | | | | 9-13 | Gobo 2 | step |
| | | | | 14-17 | Gobo 3 | step |
| | | | | 18-22 | Gobo 4 | step |
| | | | | 23-26 | Gobo 5 | step |
| | | | | 27-31 | Gobo 6 | step |
| | | | | | <i>Rotation - set rotation on channel 26/22/33/26</i> | |
| | | | | 32-35 | Gobo 1 | step |
| | | | | 36-40 | Gobo 2 | step |
| | | | | 41-44 | Gobo 3 | step |
| | | | | 45-49 | Gobo 4 | step |
| | | | | 50-54 | Gobo 5 | step |
| | | | | 55-59 | Gobo 6 | step |
| | | | | | <i>Shaking gobos from slow to fast</i> | |
| | | | | | <i>Index - set indexing on channel 26/22/33/26</i> | |
| | | | | 60-71 | Gobo 1 | proportional |
| | | | | 72-83 | Gobo 2 | proportional |
| | | | | 84-95 | Gobo 3 | proportional |
| | | | | 96-106 | Gobo 4 | proportional |
| | | | | 107-118 | Gobo 5 | proportional |
| | | | | 119-129 | Gobo 6 | proportional |
| | | | | | <i>Shaking gobos from slow to fast</i> | |
| | | | | | <i>Rotation - set rotation on channel 26/22/33/26</i> | |
| | | | | 130-141 | Gobo 1 | proportional |
| | | | | 142-153 | Gobo 2 | proportional |
| | | | | 154-165 | Gobo 3 | proportional |
| | | | | 166-176 | Gobo 4 | proportional |
| | | | | 177-188 | Gobo 5 | proportional |
| | | | | 189-199 | Gobo 6 | proportional |
| | | | | 200 - 201 | Open/hole | step |
| | | | | 202 - 222 | Forwards gobo wheel rotation from fast to slow | proportional |
| | | | | 223 - 243 | Backwards gobo wheel rotation from slow to fast | proportional |
| | | | | 244 - 249 | Random gobo selection by audio control* | step |
| | | | | | <i>*(Set microphone sensitivity in menu „Personality“)</i> | |
| | | | | 250 - 255 | Auto random gobo selection from fast to slow | proportional |
| 26 | 22 | 34 | 26 | | Rot. gobo indexing and rotation | |
| | | | | | <i>Gobo indexing - set position on channel 25/21/33/26</i> | |
| | | | | 0 - 255 | Gobo indexing (128=default) | proportional |
| | | | | | <i>Gobo rotation - set position on channel 25/21/33/26</i> | |
| | | | | 0 | No rotation | step |
| | | | | 1 - 127 | Forwards gobo rotation from fast to slow | proportional |
| | | | | 128 | No rotation (default) | step |
| | | | | 129 - 255 | Backwards gobo rotation from slow to fast | proportional |
| 27 | * | 35 | * | | Rot. gobo indexing/rotation - fine | |
| | | | | 0-255 | Fine indexing/rotation (0=default) | proportional |
| 28 | 23 | 36 | 27 | | Prism | |
| | | | | 0 - 19 | Open position -hole (0=default) | step |

DMX protocol

| Mode/channel | | | | DMX Value | Function | Type of control |
|--------------|-----------|-----------|-----------|-----------|---|-----------------|
| 1 | 2 | 3 | 4 | | | |
| | | | | 20 - 127 | 5-facet rotating prism Prism/gobo macros <i>The following channels are blocked: Prism, Prism rotation, Rotating gobo wheel, Rot. Gobo indexing and rotation.</i> | step |
| | | | | 128 - 135 | Macro 1 | step |
| | | | | 136 - 143 | Macro 2 | step |
| | | | | 144 - 151 | Macro 3 | step |
| | | | | 152 - 159 | Macro 4 | step |
| | | | | 160 - 167 | Macro 5 | step |
| | | | | 168 - 175 | Macro 6 | step |
| | | | | 176 - 183 | Macro 7 | step |
| | | | | 184 - 191 | Macro 8 | step |
| | | | | 192 - 199 | Macro 9 | step |
| | | | | 200 - 207 | Macro 10 | step |
| | | | | 208 - 215 | Macro 11 | step |
| | | | | 216 - 223 | Macro 12 | step |
| | | | | 224 - 231 | Macro 13 | step |
| | | | | 232 - 239 | Macro 14 | step |
| | | | | 240 - 247 | Macro 15 | step |
| | | | | 248 - 255 | Macro 16 | step |
| 29 | 24 | 37 | 28 | | Prism rotation | |
| | | | | 0 | No rotation | step |
| | | | | 1 - 127 | Forwards rotation from fast to slow | proportional |
| | | | | 128 | No rotation (default) | step |
| | | | | 129 - 255 | Backwards rotation from slow to fast | proportional |
| 30 | 25 | 38 | 29 | | Frost | |
| | | | | 0 | Open (0=default) | step |
| | | | | 1 - 179 | Frost from 0% to 100% | proportional |
| | | | | 180 - 189 | 100% frost | step |
| | | | | 190 - 211 | Pulse closing from slow to fast | proportional |
| | | | | 212 - 233 | Pulse opening from fast to slow | proportional |
| | | | | 234 - 255 | Ramping from fast to slow | proportional |
| 31 | 26 | 39 | 30 | | Iris | |
| | | | | 0 | Open (0=default) | step |
| | | | | 1 - 179 | From max.diameter to min.diameter | proportional |
| | | | | 180 - 191 | Closed | step |
| | | | | | Pulse effects with Iris blackout | |
| | | | | 192 - 219 | Pulse opening from slow to fast | proportional |
| | | | | 220 - 247 | Pulse closing from fast to slow | proportional |
| | | | | 248 - 249 | Random pulse opening (fast) | step |
| | | | | 250 - 251 | Random pulse opening (slow) | step |
| | | | | 252 - 253 | Random pulse closing (fast) | step |
| | | | | 254 - 255 | Random pulse closing (slow) | step |
| 32 | * | 40 | * | | Iris - fine | |
| | | | | 0 - 255 | Fine iris movement (0=default) | proportional |
| 33 | 27 | 41 | 31 | | Zoom | |
| | | | | 0 - 255 | Zoom from max. to min.beam angle (128=default) | proportional |
| 34 | * | 42 | * | | Zoom - fine | |

DMX protocol

| Mode/channel | | | | DMX Value | Function | Type of control |
|--------------|-----------|-----------|-----------|-----------|--|-----------------|
| 1 | 2 | 3 | 4 | | | |
| | | | | 0-255 | Fine zooming (0=default) | proportional |
| 35 | 28 | 43 | 32 | | Focus | |
| | | | | 0 - 255 | Continuous adjustment from far to near (128=default) | proportional |
| 36 | * | 44 | * | | Focus - fine | |
| | | | | 0- 255 | Fine focusing (0=default) | proportional |
| 37 | 29 | 45 | 33 | | Reserved | |
| 38 | 30 | 46 | 34 | | Framing shutters module rotation | |
| | | | | 0-127 | Rotation from right (0°) to 45° | proportional |
| | | | | 128 | Center (default) | step |
| | | | | 129-255 | Rotation from 45° to left (90°) | proportional |
| 39 | 31 | 47 | 35 | | Framing shutter 1- movent | |
| | | | | 0-255 | Movement from Outward to Inward (0=default) | proportional |
| 40 | 32 | 48 | 36 | | Framing shutter 1- swivelling | |
| | | | | 0-127 | Swivelling from -25 degrees towards 0 degrees | proportional |
| | | | | 128 | 0 degrees (default) | step |
| | | | | 129-255 | Swivelling from 0 degrees to +25 degrees | proportional |
| 41 | 33 | 49 | 37 | | Framing shutter 2- movent | |
| | | | | 0-255 | Movement from Outward to Inward (0=default) | proportional |
| 42 | 34 | 50 | 38 | | Framing shutter 2- swivelling | |
| | | | | 0-127 | Swivelling from -25 degrees towards 0 degrees | proportional |
| | | | | 128 | 0 degrees (default) | step |
| | | | | 129-255 | Swivelling from 0 degrees to +25 degrees | proportional |
| 43 | 35 | 51 | 39 | | Framing shutter 3 movent | |
| | | | | 0-255 | Movement from Outward to Inward (0=default) | proportional |
| 44 | 36 | 52 | 40 | | Framing shutter 3- swivelling | |
| | | | | 0-127 | Swivelling from -25 degrees towards 0 degrees | proportional |
| | | | | 128 | 0 degrees (default) | step |
| | | | | 129-255 | Swivelling from 0 degrees to +25 degrees | proportional |
| 45 | 37 | 53 | 41 | | Framing shutter 4 movent | |
| | | | | 0-255 | Movement from Outward to Inward (0=default) | proportional |
| 46 | 38 | 54 | 42 | | Framing shutter 4- swivelling | |
| | | | | 0-127 | Swivelling from -25 degrees towards 0 degrees | proportional |
| | | | | 128 | 0 degrees (default) | step |
| | | | | 129-255 | Swivelling from 0 degrees to +25 degrees | proportional |
| 47 | 39 | 55 | 43 | | Framing shutters macros | |
| | | | | 0-3 | No function (0=default) | |
| | | | | 4-7 | Macro 1 | step |
| | | | | 8-11 | Macro 2 | step |
| | | | | 12-15 | Macro 3 | step |
| | | | | 16-19 | Macro 4 | step |
| | | | | 20-23 | Macro 5 | step |
| | | | | 24-27 | Macro 6 | step |
| | | | | 28-31 | Macro 7 | step |
| | | | | 32-35 | Macro 8 | step |
| | | | | 36-39 | Macro 9 | step |
| | | | | 40-43 | Macro 10 | step |
| | | | | 44-47 | Macro 11 | step |
| | | | | 48-51 | Macro 12 | step |

DMX protocol

| Mode/channel | | | | DMX Value | Function | Type of control |
|--------------|-----------|-----------|-----------|-----------|---------------------------------------|-----------------|
| 1 | 2 | 3 | 4 | | | |
| | | | | 52-55 | Macro 13 | step |
| | | | | 56-59 | Macro 14 | step |
| | | | | 60-63 | Macro 15 | step |
| | | | | 64-67 | Macro 16 | step |
| | | | | 68-71 | Macro 17 | step |
| | | | | 72-75 | Macro 18 | step |
| | | | | 76-79 | Macro 19 | step |
| | | | | 80-83 | Macro 20 | step |
| | | | | 84-87 | Macro 21 | step |
| | | | | 88-91 | Macro 22 | step |
| | | | | 92-95 | Macro 23 | step |
| | | | | 96-99 | Macro 24 | step |
| | | | | 100-103 | Macro 25 | step |
| | | | | 104-107 | Macro 26 | step |
| | | | | 108-111 | Macro 27 | step |
| | | | | 112-115 | Macro 28 | step |
| | | | | 116-119 | Macro 29 | step |
| | | | | 120-123 | Macro 30 | step |
| | | | | 124-127 | Macro 31 | step |
| | | | | 128-131 | Macro 32 | step |
| | | | | 132-135 | Macro 33 | step |
| | | | | 136-139 | Macro 34 | step |
| | | | | 140-143 | Macro 35 | step |
| | | | | 144-147 | Macro 36 | step |
| | | | | 148-151 | Macro 37 | step |
| | | | | 152-155 | Macro 38 | step |
| | | | | 156-159 | Macro 39 | step |
| | | | | 160-163 | Macro 40 | step |
| | | | | 164-167 | Macro 41 | step |
| | | | | 168-171 | Macro 42 | step |
| | | | | 172-175 | Macro 43 | step |
| | | | | 176-179 | Macro 44 | step |
| | | | | 180-183 | Macro 45 | step |
| | | | | 184-187 | Macro 46 | step |
| | | | | 188-191 | Macro 47 | step |
| | | | | 192-195 | Macro 48 | step |
| | | | | 196-199 | Macro 49 | step |
| | | | | 200-203 | Macro 50 | step |
| | | | | 204-207 | Macro 51 | step |
| | | | | 208-211 | Macro 52 | step |
| | | | | 212-255 | Reserved | |
| 48 | 40 | 56 | 44 | | Framing shutters macro speed | |
| | | | | 0- 255 | Speed from slow to fast (128=default) | proportional |
| 49 | 41 | 57 | 45 | | 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 |

DMX protocol

| Mode/channel | | | | DMX Value | Function | Type of control |
|--|---|-----------|-----------|-----------|--|-----------------|
| 1 | 2 | 3 | 4 | | | |
| | | | | 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 |
| 50 | 42 | 58 | 46 | | Dimmer intensity | |
| | | | | 0 - 255 | Dimmer intensity from 0% to 100% (0=default) | proportional |
| 51 | * | 59 | * | | Dimmer intensity - fine | |
| | | | | 0 - 255 | Fine dimming (0=default) | proportional |
| ** | Resets following items to their menu values: | | | | | |
| | Dimmer curve | | | | | |
| | Colour calibration mode | | | | | |
| | Colour mixing mode | | | | | |
| | Colour mixing mode 7 colours | | | | | |
| | Output uniformity On | | | | | |
| | Output uniformity | | | | | |
| | Output mode | | | | | |
| | Output consistency | | | | | |
| | CRI selection | | | | | |
| | UV stability | | | | | |
| | Wavelength correction | | | | | |
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| All Specifications subject to change without notice | | | | | | |

| Colour macros on Virtual Colour Wheel | | | | | | | |
|---------------------------------------|---------|-----------|----------|-----------|----------|----------------|-----------------|
| Colour name | Red DMX | Green DMX | Blue DMX | Amber DMX | Cyan DMX | Congo Blue DMX | Light Green DMX |
| Filter 4 (Medium Bastard Amber) | 255 | 125 | 27 | 255 | 0 | 0 | 88 |
| Filter 10 (Medium Yellow) | 255 | 65 | 0 | 255 | 0 | 0 | 170 |
| Filter 19 (Fire) | 255 | 0 | 0 | 255 | 0 | 0 | 5 |
| Filter 26 (Bright Red) | 255 | 0 | 0 | 16 | 0 | 0 | 0 |
| Filter 58 (Lavender) | 255 | 0 | 168 | 255 | 0 | 0 | 47 |
| Filter 68 (Sky Blue) | 111 | 0 | 255 | 0 | 255 | 0 | 0 |
| Filter 71 (Tokyo Blue) | 0 | 0 | 255 | 0 | 10 | 0 | 0 |
| Filter 79 (Just Blue) | 108 | 0 | 255 | 0 | 255 | 0 | 0 |
| Filter 88 (Lime Green) | 255 | 0 | 0 | 174 | 255 | 0 | 255 |
| Filter 90 (Dark Yellow Green) | 0 | 128 | 0 | 0 | 255 | 0 | 255 |
| Filter 100 (Spring Yellow) | 255 | 0 | 0 | 255 | 0 | 0 | 255 |
| Filter 101 (Yellow) | 255 | 0 | 0 | 255 | 0 | 0 | 189 |
| Filter 102 (Light Amber) | 255 | 0 | 16 | 255 | 0 | 0 | 206 |
| Filter 103 (Straw) | 255 | 255 | 16 | 255 | 0 | 0 | 90 |
| Filter 104 (Deep Amber) | 255 | 0 | 0 | 255 | 0 | 0 | 151 |
| Filter 105 (Orange) | 255 | 0 | 0 | 255 | 0 | 0 | 77 |
| Filter 106 (Primary Red) | 255 | 0 | 0 | 141 | 0 | 0 | 0 |
| Filter 111 (Dark Pink) | 255 | 0 | 28 | 255 | 0 | 0 | 82 |
| Filter 115 (Peacock Blue) | 0 | 255 | 133 | 0 | 255 | 0 | 194 |
| Filter 116 (Medium Blue-Green) | 0 | 255 | 68 | 0 | 255 | 0 | 116 |
| Filter 117 (Steel Blue) | 131 | 200 | 114 | 154 | 255 | 0 | 169 |
| Filter 118 (Light Blue) | 39 | 255 | 115 | 0 | 255 | 0 | 91 |
| Filter 119 (Dark Blue) | 0 | 43 | 255 | 0 | 255 | 0 | 0 |
| Filter 120 (Deep Blue) | 26 | 0 | 255 | 0 | 255 | 0 | 0 |
| Filter 121 (Filter Green) | 111 | 255 | 0 | 255 | 0 | 0 | 255 |
| Filter 128 (Bright Pink) | 255 | 0 | 26 | 156 | 0 | 0 | 0 |
| Filter 131 (Marine Blue) | 27 | 0 | 143 | 49 | 255 | 0 | 134 |
| Filter 132 (Medium Blue) | 27 | 255 | 255 | 0 | 255 | 0 | 0 |
| Filter 134 (Golden Amber) | 255 | 200 | 0 | 255 | 0 | 0 | 0 |
| Filter 135 (Deep Golden Amber) | 255 | 0 | 0 | 255 | 0 | 0 | 30 |
| Filter 136 (Pale Lavender) | 255 | 0 | 122 | 255 | 255 | 0 | 0 |
| Filter 137 (Special Lavender) | 255 | 0 | 122 | 255 | 255 | 0 | 99 |
| Filter 138 (Pale Green) | 255 | 255 | 22 | 255 | 0 | 0 | 255 |
| Filter 139 (Primary Green) | 0 | 255 | 0 | 0 | 0 | 0 | 60 |
| Filter 141 (Bright Blue) | 0 | 255 | 255 | 0 | 255 | 0 | 116 |
| Filter 147 (Apricot) | 255 | 0 | 7 | 255 | 0 | 0 | 138 |
| Filter 148 (Bright Rose) | 255 | 0 | 13 | 255 | 0 | 0 | 24 |
| Filter 152 (Pale Gold) | 255 | 0 | 28 | 255 | 0 | 0 | 133 |
| Filter 154 (Pale Rose) | 255 | 0 | 36 | 255 | 0 | 0 | 133 |
| Filter 157 (Pink) | 255 | 0 | 13 | 255 | 0 | 0 | 39 |
| Filter 158 (Deep Orange) | 255 | 0 | 0 | 255 | 0 | 0 | 46 |
| Filter 162 (Bastard Amber) | 255 | 255 | 26 | 255 | 0 | 0 | 66 |
| Filter 164 (Flame Red) | 255 | 0 | 0 | 255 | 0 | 0 | 0 |
| Filter 165 (Daylight Blue) | 71 | 255 | 255 | 0 | 255 | 0 | 0 |
| Filter 169 (Lilac Tint) | 255 | 0 | 62 | 255 | 255 | 0 | 0 |
| Filter 170 (Deep Lavender) | 255 | 0 | 129 | 255 | 255 | 0 | 0 |

| Colour name | Red DMX | Green DMX | Blue DMX | Amber DMX | Cyan DMX | Congo Blue DMX | Light Green DMX |
|--|---------|-----------|----------|-----------|----------|----------------|-----------------|
| Filter 172 (Lagoon Blue) | 0 | 0 | 255 | 0 | 255 | 0 | 255 |
| Filter 179 (Chrome Orange) | 255 | 0 | 0 | 255 | 0 | 0 | 135 |
| Filter 180 (Dark Lavender) | 100 | 0 | 255 | 47 | 120 | 0 | 0 |
| Filter 181 (Congo Blue) | 6 | 0 | 16 | 0 | 0 | 255 | 0 |
| Filter 197 (Alice Blue) | 36 | 36 | 255 | 36 | 255 | 0 | 0 |
| Filter 201 (Full C.T. Blue) | 118 | 36 | 255 | 36 | 255 | 0 | 255 |
| Filter 202 (Half C.T. Blue) | 146 | 133 | 255 | 130 | 255 | 0 | 141 |
| Filter 203 (Quarter C.T. Blue) | 255 | 255 | 202 | 255 | 255 | 0 | 255 |
| Filter 204 (Full C.T. Orange) | 255 | 125 | 0 | 255 | 0 | 0 | 49 |
| Filter 205 (Half C.T. Orange) | 255 | 125 | 21 | 255 | 31 | 0 | 111 |
| Filter 206 (Quarter C.T. Orange) | 255 | 125 | 64 | 255 | 31 | 0 | 111 |
| Filter 247 (Filter Minus Green) | 255 | 0 | 107 | 255 | 141 | 0 | 70 |
| Filter 248 (Half Minus Green) | 255 | 0 | 107 | 255 | 255 | 0 | 136 |
| Filter 281 (Three Quarter C.T. Blue) | 112 | 0 | 219 | 95 | 255 | 0 | 255 |
| Filter 285 (Three Quarter C.T. Orange) | 255 | 0 | 0 | 255 | 0 | 0 | 152 |
| Filter 352 (Glacier Blue) | 51 | 90 | 255 | 0 | 255 | 0 | 164 |
| Filter 353 (Lighter Blue) | 51 | 255 | 255 | 0 | 255 | 0 | 255 |
| Filter 715 (Cabana Blue) | 21 | 0 | 255 | 0 | 255 | 0 | 0 |
| Filter 778 (Millennium Gold) | 255 | 0 | 0 | 255 | 0 | 0 | 50 |
| Filter 793 (Vanity Fair) | 255 | 0 | 84 | 255 | 0 | 0 | 0 |
| Deep Red | 255 | 0 | 0 | 0 | 0 | 0 | 0 |
| Deep Blue | 0 | 0 | 255 | 0 | 0 | 15 | 0 |
| Orange | 44 | 18 | 0 | 255 | 0 | 0 | 0 |
| Green | 0 | 255 | 0 | 0 | 66 | 0 | 18 |
| Magenta | 255 | 0 | 209 | 299 | 0 | 0 | 5 |
| Congo Blue | 4 | 0 | 5 | 0 | 0 | 255 | 0 |
| Pink | 255 | 0 | 175 | 255 | 0 | 0 | 89 |
| Lavender | 255 | 172 | 255 | 100 | 255 | 0 | 254 |
| Laser Green | 122 | 255 | 0 | 255 | 140 | 0 | 254 |
| CTB | 229 | 255 | 156 | 255 | 255 | 0 | 255 |
| Minus 1/1 Green | 255 | 247 | 151 | 255 | 0 | 0 | 255 |
| Minus 1/2 Green | 255 | 255 | 128 | 255 | 124 | 0 | 255 |