

DMX protocol

Robin Pointe - DMX protocol, version 1.3

(For fixtures produced after 20/08/2013 or updated with a software DSU_RobinPointe_13081258.zip (DSU_RobinPointe_13081258.tar.bz2) or latter . DSU RobinPointe_YYMMDDTT.zip -->YY=year, MM=month, DD= day)

| Mode/channel | | | DMX Value | Function | Type of control |
|--------------|---|---|-----------|---|-----------------|
| 1 | 2 | 3 | | | |
| 1 | 1 | 1 | 0 - 255 | Pan Pan movement by 540° | proportional |
| 2 | * | 2 | 0 - 255 | Pan Fine Fine control of pan movement | proportional |
| 3 | 2 | 3 | 0 - 255 | Tilt Tilt movement by 270° | proportional |
| 4 | * | 4 | 0 - 255 | Tilt fine Fine control of tilt movement | proportional |
| 5 | 3 | 5 | | Pan/Tilt speed , Pan/Tilt time | |
| | | | 0 | Standard mode | step |
| | | | 1 | Max. Speed Mode | step |
| | | | | Pan/Tilt speed mode | |
| | | | 2 - 255 | Speed from max. to min. | proportional |
| | | | | Pan/Tilt time mode | |
| | | | 2 - 255 | Time from 0.2 s to 25.5 sec. | proportional |
| 6 | 4 | 6 | | Power/Special functions | |
| | | | 0 - 9 | Reserved | |
| | | | | <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 22/15/27 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden except DMX Input.</i> | |
| | | | 10-14 | DMX input: Wired DMX* | step |
| | | | 15-19 | DMX input: Wireless DMX* | step |
| | | | | <i>* Function is active only 10 seconds after switching fixture on</i> | |
| | | | 20-24 | Eco mode (Lamp power 230W) | step |
| | | | 25-29 | Standard mode (Lamp power 280W) | step |
| | | | 30-49 | Reserved | |
| | | | 50 - 59 | Pan/Tilt speed mode | step |
| | | | 60 - 69 | Pan/Tilt time mode | step |
| | | | 70 - 79 | Blackout while pan/tilt moving | step |
| | | | 80 - 89 | Disabled blackout while pan/tilt moving | step |
| | | | 90 - 99 | Blackout while colour wheel moving | step |
| | | | 100 - 109 | Disabled blackout while colour wheel moving | step |
| | | | 110 - 119 | Blackout while gobo wheel moving | step |
| | | | 120-129 | Disabled blackout while gobo wheel moving | step |
| | | | | <i>To activate following functions, stop in DMX value for at least 3 seconds:</i> | |
| | | | 130 - 139 | Lamp On,reset(total reset except pan/tilt reset) | step |
| | | | 140 - 149 | Pan/Tilt reset | step |
| | | | 150 - 159 | Colour system reset | step |
| | | | 160 - 169 | Gobo wheels reset | step |
| | | | 170 - 179 | Dimmer/Shutter | step |
| | | | 180 - 189 | Zoom/focus/prism reset | step |
| | | | 190 - 199 | Reserved | step |
| | | | 200 - 209 | Total reset | step |
| | | | 210 - 229 | Reserved | |

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| 1 | 2 | 3 | | | |
| | | | 230 - 239 | Lamp Off | step |
| | | | 240 - 255 | Reserved | |
| | | | | | |
| 7 | 5 | 7 | | Colour wheel | |
| | | | | Continual positioning | |
| | | | 0 | Open/white | proportional |
| | | | 9 | Deep Red | proportional |
| | | | 18 | Deep Blue | proportional |
| | | | 27 | Yellow | proportional |
| | | | 37 | Green | proportional |
| | | | 46 | Magenta | proportional |
| | | | 55 | Azure | proportional |
| | | | 64 | Red | proportional |
| | | | 73 | Dark green | proportional |
| | | | 82 | Amber | proportional |
| | | | 91 | Blue | proportional |
| | | | 101 | Orange | proportional |
| | | | 110 | CTO | proportional |
| | | | 119 | UV filter | proportional |
| | | | 128-129 | White | step |
| | | | | Positioning | |
| | | | 130-134 | Deep Red | step |
| | | | 135-138 | Deep Blue | step |
| | | | 139-143 | Yellow | step |
| | | | 144-147 | Green | step |
| | | | 148-152 | Magenta | step |
| | | | 153-157 | Azure | step |
| | | | 158-161 | Red | step |
| | | | 162-166 | Dark green | step |
| | | | 167-171 | Amber | step |
| | | | 172-176 | Blue | step |
| | | | 177-180 | Orange | step |
| | | | 181-185 | CTO | step |
| | | | 186-189 | UV filter | 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 (Set microphone sensitivity in menu „Personality“) | step |
| | | | 250 - 255 | Auto random colour selection from fast to slow | proportional |
| | | | | | |
| 8 | * | 8 | | Colour wheel - fine positioning | |
| | | | 0 - 255 | Fine positioning | proportional |
| 9 | 6 | 9 | | Effect Speed | |
| | | | 0 - 255 | Speed of Rot. Gobo selection from max. to min. | proportional |
| * | * | 10 | | Frost time | |
| | | | 0 | Function is off | step |
| | | | 1 - 255 | Time of frost movement (0.1 sec. --- >25.5 sec.) | proportional |
| * | * | 11 | | Color time | |
| | | | 0 | Function is off | step |

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|--------------|---|----|-----------|--|-----------------|
| 1 | 2 | 3 | | | |
| | | | 1 - 255 | Time of colour wheel movement (0.1 sec. --- >25.5 sec.) | proportional |
| * | * | 12 | | Static gobo time | |
| | | | 0 | Function is off | step |
| | | | 1 - 255 | Time of static gobo wheel movement (0.1 sec. --- >25.5 sec.) | proportional |
| * | * | 13 | | Prism time | |
| | | | 0 | Function is off | step |
| | | | 1-50 | Time of prism movement (0.1 sec. --- > 5 sec.) | proportional |
| | | | 1 - 255 | Time of prism rotation (0.1 sec. --- >25.5 sec.) | proportional |
| * | * | 14 | | Zoom time | |
| | | | 0 | Function is off | step |
| | | | 1 - 255 | Time of zoom movement (0.1 sec. --- >25.5 sec.) | proportional |
| * | * | 15 | | Focus time | |
| | | | 0 | Function is off | step |
| | | | 1 - 255 | Time of zoom movement (0.1 sec. --- >25.5 sec.) | proportional |
| 10 | 7 | 16 | | Static gobo wheel | |
| | | | 0-3 | Open/hole | step |
| | | | | <u>Positioning</u> | |
| | | | 4-9 | Gobo 1 | step |
| | | | 10-15 | Gobo 2 | step |
| | | | 16-21 | Gobo 3 | step |
| | | | 22-27 | Gobo 4 | step |
| | | | 28-33 | Gobo 5 | step |
| | | | 34-39 | Gobo 6 | step |
| | | | 40-45 | Gobo 7 | step |
| | | | 46-51 | Gobo 8 | step |
| | | | 52-57 | Gobo 9 | step |
| | | | 58-63 | Gobo 10 | step |
| | | | 64-69 | Beam reducer 1 | step |
| | | | 70-75 | Beam reducer 2 | step |
| | | | 76-81 | Beam reducer 3 | step |
| | | | 82-87 | Beam reducer 4 | step |
| | | | | <u>Shaking gobos from slow to fast</u> | |
| | | | 88-95 | Gobo 1 | proportional |
| | | | 96-103 | Gobo 2 | proportional |
| | | | 104-111 | Gobo 3 | proportional |
| | | | 112-119 | Gobo 4 | proportional |
| | | | 120-127 | Gobo 5 | proportional |
| | | | 128-135 | Gobo 6 | proportional |
| | | | 136-143 | Gobo 7 | proportional |
| | | | 144-151 | Gobo 8 | proportional |
| | | | 152-159 | Gobo 9 | proportional |
| | | | 160-167 | Gobo 10 | proportional |
| | | | 168-175 | Beam reducer 1 | proportional |
| | | | 176-183 | Beam reducer 2 | proportional |
| | | | 184-191 | Beam reducer 3 | proportional |
| | | | 192-199 | Beam reducer 4 | proportional |
| | | | 200-201 | Open/hole | step |
| | | | 202 - 221 | Forwards gobo wheel rotation from fast to slow | proportional |
| | | | 222 - 223 | No rotation | |
| | | | 224 - 243 | Backwards gobo wheel rotation from slow to fast | proportional |

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|--------------|----------|-----------|-----------|---|-----------------|
| 1 | 2 | 3 | | | |
| | | | 244 - 249 | Random gobo selection by audio control <i>(Set microphone sensitivity in menu „Personality“)</i> | step |
| | | | 250 - 255 | Auto random gobo selection from fast to slow | proportional |
| 11 | 8 | 17 | | Rotating gobo wheel <i>In the range of 0-59 DMX the gobo selection speed is controlled by the Effect Speed channel.</i> | |
| | | | | <i>Index - set indexing on channel 12/9/17</i> | |
| | | | 0 | Open/Hole (default) | step |
| | | | 1-4 | Hole (flat field) | step |
| | | | 5-7 | Gobo 1 | step |
| | | | 8-10 | Gobo 2 | step |
| | | | 11-13 | Gobo 3 | step |
| | | | 14-16 | Gobo 4 | step |
| | | | 17-19 | Gobo 5 | step |
| | | | 20-22 | Gobo 6 | step |
| | | | 23-25 | Gobo 7 | step |
| | | | 26-28 | Gobo 8 | step |
| | | | 29-31 | Gobo 9 | step |
| | | | | <i>Rotation - set rotation on channel 12/9/17</i> | |
| | | | 32-34 | Gobo 1 | step |
| | | | 35-37 | Gobo 2 | step |
| | | | 38-40 | Gobo 3 | step |
| | | | 41-43 | Gobo 4 | step |
| | | | 44-46 | Gobo 5 | step |
| | | | 47-49 | Gobo 6 | step |
| | | | 50-52 | Gobo 7 | step |
| | | | 53-55 | Gobo 8 | step |
| | | | 56-59 | Gobo 9 | step |
| | | | | <i>Shaking gobos from slow to fast</i> | |
| | | | | <i>Index - set indexing on channel 12/9/17</i> | |
| | | | 60-67 | Gobo 1 | proportional |
| | | | 68-75 | Gobo 2 | proportional |
| | | | 76-83 | Gobo 3 | proportional |
| | | | 84-91 | Gobo 4 | proportional |
| | | | 92-99 | Gobo 5 | proportional |
| | | | 100-107 | Gobo 6 | proportional |
| | | | 108-115 | Gobo 7 | proportional |
| | | | 116-123 | Gobo 8 | proportional |
| | | | 124-129 | Gobo 9 | proportional |
| | | | | <i>Shaking gobos from slow to fast</i> | |
| | | | | <i>Rotation - set rotation on channel 12/9/17</i> | |
| | | | 130-137 | Gobo 1 | proportional |
| | | | 138-145 | Gobo 2 | proportional |
| | | | 146-153 | Gobo 3 | proportional |
| | | | 154-161 | Gobo 4 | proportional |
| | | | 162-169 | Gobo 5 | proportional |
| | | | 170-177 | Gobo 6 | proportional |
| | | | 178-185 | Gobo 7 | proportional |
| | | | 186-193 | Gobo 8 | proportional |
| | | | 194-199 | Gobo 9 | proportional |

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| Mode/channel | | | DMX Value | Function | Type of control |
|--------------|-----------|-----------|-----------|--|-----------------|
| 1 | 2 | 3 | | | |
| | | | 200 - 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 |
| | | | | (Set microphone sensitivity in menu „Personality“) | |
| | | | 250 - 255 | Auto random gobo selection from fast to slow | proportional |
| 12 | 9 | 18 | | Rot. gobo indexing and rotation | |
| | | | | Gobo indexing - set position on channel 11/8/16 | |
| | | | 0 - 255 | Gobo indexing | proportional |
| | | | | Gobo rotation - set position on channel 11/8/16 | |
| | | | 0 | No rotation | step |
| | | | 1 - 127 | Forwards gobo rotation from fast to slow | proportional |
| | | | 128 - 129 | No rotation | step |
| | | | 130 - 255 | Backwards gobo rotation from slow to fast | proportional |
| 13 | * | 19 | | Rot. gobo indexing and rotation - fine | |
| | | | 0-255 | Fine indexing (rotation) | proportional |
| 14 | 10 | 20 | | Prism | |
| | | | 0 - 19 | Open position (hole) | step |
| | | | 20 -49 | 6-facet linear rotating prism -indexing | step |
| | | | 50 - 75 | 6-facet linear rotating prism- rotation | step |
| | | | 76 - 105 | 8-facet circular rotating prism- Indexing | step |
| | | | 106-127 | 8-facet circular rotating prism-rotation | step |
| | | | | Prism/gobo macros | |
| | | | 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 |
| 15 | 11 | 21 | | Prism rotation and indexing | |
| | | | | Prism indexing - set position on channel 14/10/19 | |
| | | | 0 - 255 | Prism indexing | proportional |
| | | | | Prism rotation - set position on channel 14/10/19 | |
| | | | 0 | No rotation | step |
| | | | 1 - 127 | Forwards prism rotation from fast to slow | proportional |
| | | | 128 - 129 | No rotation | step |
| | | | 130 - 255 | Backwards prism rotation from slow to fast | proportional |
| 16 | 12 | 22 | | Frost | |
| | | | 0 | Open | step |

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| Mode/channel | | | DMX Value | Function | Type of control |
|--------------|-----------|-----------|-----------|--|-----------------|
| 1 | 2 | 3 | | | |
| | | | 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 |
| 17 | 13 | 23 | | Zoom | |
| | | | 0 - 255 | Zoom from max. to min.beam angle | proportional |
| 18 | * | 24 | | Zoom - fine | |
| | | | 0-255 | Fine zooming | proportional |
| 19 | 14 | 25 | | Focus | |
| | | | 0 - 255 | Continuous adjustment from far to near | proportional |
| 20 | * | 26 | | Focus - fine | |
| | | | 0- 255 | Fine focusing | proportional |
| 21 | * | 27 | | Autofocus (priority & distance selection) | |
| | | | | Select desired distance and effect on which you need to focus and use "Focus" channel (19/14/25) to focus the image. | |
| | | | 0 | Autofocus Off | step |
| | | | | Rotating gobos & Hole (flat field) | |
| | | | 1 | 10 metres | proportional |
| | | | 8 | 15 metres | proportional |
| | | | 16 | 20 metres | proportional |
| | | | 24 | 25 metres | proportional |
| | | | 32 | 30 metres | proportional |
| | | | 40 | 35 metres | proportional |
| | | | 48 | 40 metres | proportional |
| | | | 56 | 45 metres | proportional |
| | | | | Static gobos & Hole (default) | |
| | | | 64 | 10 metres | proportional |
| | | | 72 | 20 metres | proportional |
| | | | 80 | 30 metres | proportional |
| | | | 88 | 40 metres | proportional |
| | | | 96 | 50 metres | proportional |
| | | | 104 | 60 metres | proportional |
| | | | 112 | 70 metres | proportional |
| | | | 120 | 80 metres | proportional |
| | | | 127 | Infinity | proportional |
| | | | 128-255 | Reserved | |
| 22 | 15 | 28 | | Shutter/ strobe | |
| | | | 0 - 31 | Shutter closed (Lamp power reduced to 230 W) | step |
| | | | 32 - 63 | Shutter open, Full lamp power | 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, Full lamp power | step |
| 23 | 16 | 29 | | Dimmer intensity | |
| | | | 0 - 255 | Dimmer intensity from 0% to 100% | proportional |
| 24 | * | 30 | | Dimmer intensity - fine | |

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| Mode/channel | | | DMX Value | Function | Type of control |
|--------------|---|---|-----------|--------------|-----------------|
| 1 | 2 | 3 | | | |
| | | | 0 - 255 | Fine dimming | proportional |
| | | | | | |