

DMX protocol

| Robin MiniPointe - DMX protocol, version 1.0 | | | | | | |
|--|----------------------------|------------------------------|-----------|---|-----------------|--|
| Mode/channel | | | DMX Value | Function | Type of control | |
| Mode 1 Standard 16 bit | Mode 2 Reduced 8 bit | Mode 3 Extended 16 bit | | | | |
| 1 | 1 | 1 | | Pan | | |
| | | | 0 - 255 | Pan movement by 540° | proportional | |
| 2 | * | 2 | | Pan Fine | | |
| | | | 0 - 255 | Fine control of pan movement | proportional | |
| 3 | 2 | 3 | | Tilt | | |
| | | | 0 - 255 | Tilt movement by 270° | proportional | |
| 4 | * | 4 | | Tilt fine | | |
| | | | 0 - 255 | Fine control of tilt movement | proportional | |
| 5 | 3 | 5 | | Pan/Tilt speed , Pan/Tilt time | | |
| | | | 0 | Standard mode | step | |
| | | | 1 | Max. Speed Mode | step | |
| | | | | <i>Pan/Tilt speed mode</i> | | |
| | | | 2 - 255 | Speed from max. to min. | proportional | |
| | | | | <i>Pan/Tilt time mode</i> | | |
| | | | 2 - 255 | Time from 0.2 s to 25.5 sec. | proportional | |
| 6 | 4 | 6 | | Power/Special functions | | |
| | | | 0 - 49 | 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 20/16/25 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden except DMX Input.</i> | | |
| | | | 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 | step | |
| | | | 140 - 149 | Pan/Tilt reset | step | |
| | | | 150 - 159 | Colour wheel reset | step | |
| | | | 160 - 169 | Static gobo wheel reset | step | |
| | | | 170 - 179 | Dimmer/Shutter | step | |
| | | | 180 - 189 | Focus/Prisms reset | step | |
| | | | 190 - 199 | Reserved | step | |
| | | | 200 - 209 | Total reset | step | |
| | | | 210 - 229 | Reserved | | |
| | | | 230 - 239 | Lamp Off | step | |
| | | | 240 - 255 | Reserved | | |
| 7 | 5 | 7 | | Colour wheel | | |
| | | | | <i>Continual positioning</i> | | |

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| Mode 1 Standard 16 bit | Mode 2 Reduced 8 bit | Mode 3 Extended 16 bit | | | |
| | | | 0 | Open/white | proportional |
| | | | 9 | Deep Red | proportional |
| | | | 18 | Deep Blue | proportional |
| | | | 27 | Yellow | proportional |
| | | | 37 | Light green | proportional |
| | | | 46 | Magenta | proportional |
| | | | 55 | Lavender | proportional |
| | | | 64 | Pink | proportional |
| | | | 73 | Dark green | proportional |
| | | | 82 | CTO 2700K | proportional |
| | | | 91 | Blue | proportional |
| | | | 101 | Orange | proportional |
| | | | 110 | CTO 3200K | proportional |
| | | | 119 | UV (Kongo blue) | proportional |
| | | | 128-129 | White | step |
| | | | | Positioning | |
| | | | 130-134 | Deep Red | step |
| | | | 135-138 | Deep Blue | step |
| | | | 139-143 | Yellow | step |
| | | | 144-147 | Light green | step |
| | | | 148-152 | Magenta | step |
| | | | 153-157 | Lavender | step |
| | | | 158-161 | Pink | step |
| | | | 162-166 | Dark green | step |
| | | | 167-171 | CTO 2700K | step |
| | | | 172-176 | Blue | step |
| | | | 177-180 | Orange | step |
| | | | 181-185 | CTO 3200K | step |
| | | | 186-189 | UV (Kongo 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 (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 | | Frost time | |
| | | | 0 | Function is off | step |
| | | | 1 - 255 | Time of frost movement (0.1 sec. --- >25.5 sec.) | proportional |
| * | * | 10 | | Color time | |
| | | | 0 | Function is off | step |
| | | | 1 - 255 | Time of colour wheel movement (0.1 sec. --- >25.5 sec.) | proportional |
| * | * | 11 | | Static gobo time | |
| | | | 0 | Function is off | step |
| | | | 1 - 255 | Time of static gobo wheel movement (0.1 sec. --- >25.5 sec.) | proportional |

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| Mode 1 Standard 16 bit | Mode 2 Reduced 8 bit | Mode 3 Extended 16 bit | | | |
| * | * | 12 | | Prism 14.6° and Prism 16° 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 |
| * | * | 13 | | Focus time | |
| | | | 0 | Function is off | step |
| | | | 1 - 255 | Time of focus movement (0.1 sec. --- >25.5 sec.) | proportional |
| 9 | 6 | 14 | | 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 | Open/hole | 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 |
| | | | 192-201 | 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 |
| | | | 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 |
| 10 | 7 | 15 | | Prism 14.6° | |
| | | | 0 - 19 | Open position (hole) | step |

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| Mode 1 Standard 16 bit | Mode 2 Reduced 8 bit | Mode 3 Extended 16 bit | | | |
| | | | 20 -127 | Prism indexing | step |
| | | | 128 - 255 | Prism rotation | step |
| 11 | 8 | 16 | | Prism 14.6° rotation and indexing | |
| | | | | <i>Prism indexing - set position on channel 10/7/15</i> | |
| | | | 0 - 255 | Prism indexing | proportional |
| | | | | <i>Prism rotation - set position on channel 10/7/15</i> | |
| | | | 0 | No rotation | step |
| | | | 1 - 127 | Forwards rotation from fast to slow | proportional |
| | | | 128 | No rotation - <u>default</u> | step |
| | | | 129-255 | Backwards rotation from slow to fast | proportional |
| 12 | 9 | 17 | | Prism 16° | |
| | | | 0 - 19 | Open position (hole) | step |
| | | | 20 -127 | Prism indexing | step |
| | | | 128 - 255 | Prism rotation | step |
| 13 | 10 | 18 | | Prism 16° rotation and indexing | |
| | | | | <i>Prism indexing - set position on channel 12/9/17</i> | |
| | | | 0 - 255 | Prism indexing | proportional |
| | | | | <i>Prism rotation - set position on channel 12/9/17</i> | |
| | | | 0 | No rotation | step |
| | | | 1 - 127 | Forwards rotation from fast to slow | proportional |
| | | | 128 | No rotation - <u>default</u> | step |
| | | | 129-255 | Backwards rotation from slow to fast | proportional |
| 14 | 11 | 19 | | DFE - Shape/Effect selection | |
| | | | | <i>Static Shapes Index - set indexing on channel 15/12/20</i> | |
| | | | 0-7 | No function | step |
| | | | 8-11 | Shape 1 | step |
| | | | 12-15 | Shape 2 | step |
| | | | 16-19 | Shape 3 | step |
| | | | 20-23 | Shape 4 | step |
| | | | 24-27 | Shape 5 | step |
| | | | 28-31 | Shape 6 | step |
| | | | 32-35 | Shape 7 | step |
| | | | 36-39 | Shape 8 | step |
| | | | 40-43 | Shape 9 | step |
| | | | 44-47 | Shape 10 | step |
| | | | 48-51 | Shape 11 | step |
| | | | | <i>Static Shapes rotation - set rotation on channel 15/12/20</i> | |
| | | | 52-55 | Shape 1 | step |
| | | | 56-59 | Shape 2 | step |
| | | | 60-63 | Shape 3 | step |
| | | | 64-67 | Shape 4 | step |
| | | | 68-71 | Shape 5 | step |
| | | | 72-75 | Shape 6 | step |
| | | | 76-79 | Shape 7 | step |
| | | | 80-83 | Shape 8 | step |
| | | | 84-87 | Shape 9 | step |
| | | | 88-91 | Shape 10 | step |

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| Mode/channel | | | DMX Value | Function | Type of control |
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| Mode 1 Standard 16 bit | Mode 2 Reduced 8 bit | Mode 3 Extended 16 bit | | | |
| | | | 92-95 | Shape 11 <i>Dynamic flower effects</i> | step |
| | | | 96-99 | Effect 1 | step |
| | | | 100-103 | Effect 2 | step |
| | | | 104-107 | Effect 3 | step |
| | | | 108-111 | Effect 4 | step |
| | | | 112-115 | Effect 5 | step |
| | | | 116-119 | Effect 6 | step |
| | | | 120-123 | Effect 7 | step |
| | | | 124-127 | Effect 8 | step |
| | | | 128-131 | Effect 9 | step |
| | | | 132-255 | Reserved | |
| 15 | 12 | 20 | | DFE & Beam shaper Indexing and rotation control | |
| | | | | <i>DFE indexing - set position on channel 14/11/19</i> | |
| | | | | <i>Beam shaper indexing - set position on channel 16/13/21</i> | |
| | | | 0 - 255 | DFE indexing | proportional |
| | | | | <i>DFE rotation - set position on channel 10/7/15</i> | |
| | | | | <i>Beam shaper rotation - set position on channel 16/13/21</i> | |
| | | | 0 | No rotation | step |
| | | | 1 - 127 | Forwards rotation from fast to slow | proportional |
| | | | 128 | No rotation - <u>default</u> | step |
| | | | 129-255 | Backwards rotation from slow to fast | proportional |
| 16 | 13 | 21 | | Beam shaper selection* | |
| | | | | <i>Static Shapers Index - set indexing on channel 15/12/20</i> | |
| | | | 0-7 | No function | step |
| | | | 8-11 | Shaper 1 | step |
| | | | 12-15 | Shaper 2 | step |
| | | | 16-19 | Shaper 3 | step |
| | | | 20-23 | Shaper 4 | step |
| | | | 24-27 | Shaper 5 | step |
| | | | 28-31 | Shaper 6 | step |
| | | | 32-35 | Shaper 7 | step |
| | | | 36-39 | Shaper 8 | step |
| | | | 40-43 | Shaper 9 | step |
| | | | 44-47 | Shaper 10 | step |
| | | | 48-51 | Shaper 11 | step |
| | | | | <i>Static Shapers rotation - set rotation on channel 15/12/20</i> | |
| | | | 52-55 | Shaper 1 | step |
| | | | 56-59 | Shaper 2 | step |
| | | | 60-63 | Shaper 3 | step |
| | | | 64-67 | Shaper 4 | step |
| | | | 68-71 | Shaper 5 | step |
| | | | 72-75 | Shaper 6 | step |
| | | | 76-79 | Shaper 7 | step |
| | | | 80-83 | Shaper 8 | step |
| | | | 84-87 | Shaper 9 | step |
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| Mode 1 Standard 16 bit | Mode 2 Reduced 8 bit | Mode 3 Extended 16 bit | | | |
| | | | 92-95 | Shaper 11 <i>Dynamic shapers</i> | step |
| | | | 96-99 | Effect 1 | step |
| | | | 100-103 | Effect 2 | step |
| | | | 104-107 | Effect 3 | step |
| | | | 108-111 | Effect 4 | step |
| | | | 112-115 | Effect 5 | step |
| | | | 116-119 | Effect 6 | step |
| | | | 120-123 | Effect 7 | step |
| | | | 124-127 | Effect 8 | step |
| | | | 128-131 | Effect 9 | step |
| | | | 132-255 | Reserved * Static gobo wheel and frost is blocked If DMX value > 7 | |
| 17 | 14 | 22 | | Frost | |
| | | | 0 | Open | 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 |
| 18 | 15 | 23 | | Focus | |
| | | | 0 - 255 | Continuous adjustment from far to near | proportional |
| 19 | * | 24 | | Focus - fine | |
| | | | 0- 255 | Fine focusing | proportional |
| 20 | 16 | 25 | | Shutter/ strobe | |
| | | | 0 - 31 | Shutter closed | step |
| | | | 32 - 63 | Shutter open | 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 |
| 21 | 17 | 26 | | Dimmer intensity | |
| | | | 0 - 255 | Dimmer intensity from 0% to 100% | proportional |
| 22 | * | 27 | | Dimmer intensity - fine | |
| | | | 0 - 255 | Fine dimming | proportional |
| Note: the Beam Shaper channel has priority to the DFE-Shape/Effect selection channel and both channels have priority to Prisms channels | | | | | |
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| All Specifications subject to change without notice | | | | | |