

DMX protocol

| Robin iPointe65 - DMX protocol                                            |   |           |                                                                                                                                                                                                                                                                                                        |                 |
|---------------------------------------------------------------------------|---|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Version: 1.1 <b>Mode 1</b> -Standard 16-bit, <b>Mode 2</b> -Reduced 8-bit |   |           |                                                                                                                                                                                                                                                                                                        |                 |
| Mode/channel                                                              |   | DMX Value | Function                                                                                                                                                                                                                                                                                               | Type of control |
| 1                                                                         | 2 |           |                                                                                                                                                                                                                                                                                                        |                 |
| 1                                                                         | 1 | 0 - 255   | <b>Pan</b><br>Pan movement by 540° (128=default)                                                                                                                                                                                                                                                       | proportional    |
| 2                                                                         | 2 | 0 - 255   | <b>Pan Fine</b><br>Fine control of pan movement (0=default)                                                                                                                                                                                                                                            | proportional    |
| 3                                                                         | 3 | 0 - 255   | <b>Tilt</b><br>Tilt movement by 265° (128=default)                                                                                                                                                                                                                                                     | proportional    |
| 4                                                                         | 4 | 0 - 255   | <b>Tilt fine</b><br>Fine control of tilt movement (0=default)                                                                                                                                                                                                                                          | proportional    |
| 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 |           | <b>Power/Special functions</b>                                                                                                                                                                                                                                                                         |                 |
|                                                                           |   | 0 - 9     | Reserved (0=default)<br><i>To activate following functions , stop in DMX value for at least 3 s and shutter must be closed (except CRI setting) at least 3 sec. („Shutter,Strobe“ channel 37/33 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            |
|                                                                           |   |           | * function is active only 10 seconds after switching the fixture on                                                                                                                                                                                                                                    |                 |
|                                                                           |   | 20-24     | Graphic display On                                                                                                                                                                                                                                                                                     | step            |
|                                                                           |   | 25-29     | Graphic display Off                                                                                                                                                                                                                                                                                    | step            |
|                                                                           |   |           | <i>To activate CRI setting, stop in DMX value for at least 3 seconds.</i>                                                                                                                                                                                                                              |                 |
|                                                                           |   | 30-34     | High CRI (CRI=90)                                                                                                                                                                                                                                                                                      | step            |
|                                                                           |   | 35-39     | Standard CRI (CRI=80)                                                                                                                                                                                                                                                                                  | step            |
|                                                                           |   | 40-44     | Eco mode ( Lamp power 265 W)                                                                                                                                                                                                                                                                           | step            |
|                                                                           |   | 45-49     | Standard mode (Lamp power 310 W)                                                                                                                                                                                                                                                                       | step            |
|                                                                           |   | 50-54     | Close proximity mode On                                                                                                                                                                                                                                                                                | step            |
|                                                                           |   | 55-59     | Close proximity mode Off                                                                                                                                                                                                                                                                               | step            |
|                                                                           |   | 60-64     | Fans mode: Auto                                                                                                                                                                                                                                                                                        | step            |
|                                                                           |   | 65-69     | Fans mode: High                                                                                                                                                                                                                                                                                        | step            |
|                                                                           |   | 70-74     | Dimmer curve: Square law                                                                                                                                                                                                                                                                               | step            |
|                                                                           |   | 75-79     | Dimmer curve: Linear                                                                                                                                                                                                                                                                                   | step            |
|                                                                           |   | 80-89     | Reserved                                                                                                                                                                                                                                                                                               |                 |
|                                                                           |   | 90-94     | Pan/Tilt speed mode                                                                                                                                                                                                                                                                                    | step            |
|                                                                           |   | 95-99     | Pan/Tilt time mode                                                                                                                                                                                                                                                                                     | step            |
|                                                                           |   | 100-101   | Blackout while pan/tilt moving                                                                                                                                                                                                                                                                         | step            |
|                                                                           |   | 102-103   | Disabled blackout while pan/tilt moving                                                                                                                                                                                                                                                                | step            |
|                                                                           |   | 104-105   | Blackout while prism wheel 1 (wheel 2) moving                                                                                                                                                                                                                                                          | step            |
|                                                                           |   | 106-107   | Disabled blackout while prism wheel 1 (wheel 2) moving                                                                                                                                                                                                                                                 | step            |
|                                                                           |   | 108-119   | Reserved                                                                                                                                                                                                                                                                                               |                 |
|                                                                           |   | 120-124   | Parking position On                                                                                                                                                                                                                                                                                    | step            |

DMX protocol

| Mode/channel |           | DMX Value | Function                                                                                                  | Type of control |
|--------------|-----------|-----------|-----------------------------------------------------------------------------------------------------------|-----------------|
| 1            | 2         |           |                                                                                                           |                 |
|              |           | 125-129   | Parking position Off<br><i>To activate following functions, stop in DMX value for at least 3 seconds.</i> | step            |
|              |           | 130 - 139 | Lamp On                                                                                                   | step            |
|              |           | 140 - 149 | Pan/Tilt reset                                                                                            | step            |
|              |           | 150 - 159 | Colour system reset                                                                                       | step            |
|              |           | 160 - 169 | Gobo wheels reset                                                                                         | step            |
|              |           | 170 - 179 | Dimmer/Shutter/Hot Spot reset                                                                             | step            |
|              |           | 180 - 189 | Zoom/focus/frost/prism wheels reset                                                                       | step            |
|              |           | 190 - 199 | Effect wheel reset                                                                                        | step            |
|              |           | 200 - 209 | Total reset                                                                                               | step            |
|              |           | 210 - 229 | Reserved                                                                                                  |                 |
|              |           | 230 - 239 | Lamp Off                                                                                                  | step            |
|              |           |           | The following RoboSpot related commands are only applicable when the RoboSpot is connected:               |                 |
|              |           | 240 - 244 | RoboSpot enabled                                                                                          | step            |
|              |           | 245 - 249 | RoboSpot disabled - except handle faders and pan/tilt                                                     | step            |
|              |           | 250 - 255 | RoboSpot fully disabled                                                                                   | step            |
| <b>7</b>     | <b>7</b>  |           | <b>Cyan</b>                                                                                               |                 |
|              |           | 0 - 255   | Cyan from min. saturation --> full cyan (0=default)                                                       | proportional    |
| <b>8</b>     | <b>8</b>  |           | <b>Magenta</b>                                                                                            |                 |
|              |           | 0 - 255   | Magenta from min. saturation --> full magenta (0=default)                                                 | proportional    |
| <b>9</b>     | <b>9</b>  |           | <b>Yellow</b>                                                                                             |                 |
|              |           | 0 - 255   | Yellow from min. saturation --> full yellow (0=default)                                                   | proportional    |
| <b>10</b>    | <b>10</b> |           | <b>Colour wheel</b>                                                                                       |                 |
|              |           |           | <b><i>Continual positioning</i></b>                                                                       |                 |
|              |           | 0         | Open/white (0=default)                                                                                    | 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            |
|              |           |           | <b><i>Positioning</i></b>                                                                                 |                 |
|              |           | 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            |

## DMX protocol

| Mode/channel |           | DMX Value | Function                                                                                       | Type of control |
|--------------|-----------|-----------|------------------------------------------------------------------------------------------------|-----------------|
| 1            | 2         |           |                                                                                                |                 |
|              |           | 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<br>(Set microphone sensitivity in menu „Personality“) | step            |
|              |           | 250 - 255 | Auto random colour selection from fast to slow                                                 | proportional    |
| <b>11</b>    | <b>*</b>  |           | <b>Colour wheel - fine positioning</b>                                                         |                 |
|              |           | 0 - 255   | Fine positioning (0=default)                                                                   | proportional    |
| <b>12</b>    | <b>11</b> |           | <b>Virtual colour wheel</b>                                                                    |                 |
|              |           | 0         | Open/white (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            |
|              |           | 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            |

## DMX protocol

| Mode/channel |           | DMX Value | Function                                                  | Type of control |
|--------------|-----------|-----------|-----------------------------------------------------------|-----------------|
| 1            | 2         |           |                                                           |                 |
|              |           | 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            |
|              |           | 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   | Raw DMX                                                   | proportional    |
| <b>13</b>    | <b>12</b> |           | <b>Effect Speed</b>                                       |                 |
|              |           |           | <i>Speed of Cyan and Magenta and Yellow movement</i>      |                 |
|              |           | 0-255     | Speed of CMY movement from max. to min. (0=default)       | proportional    |
| <b>14</b>    | <b>13</b> |           | <b>CMY &amp; Colour wheel time</b>                        |                 |
|              |           | 0         | Function is off (0=default)                               | step            |
|              |           | 1 - 255   | Time of CMY and col. wheel movement (0.1sec-->25.5sec.)   | proportional    |
| <b>15</b>    | <b>14</b> |           | <b>Zoom &amp; Focus &amp; Frost &amp; Prism time</b>      |                 |
|              |           | 0         | Function is off (0=default)                               | step            |
|              |           | 1 - 255   | Time of zoom/ focus movement (0.1 sec-->25.5 sec.)        | proportional    |
|              |           | 1-100     | Time of frost movement (0.1 sec -->10 sec)                | proportional    |
|              |           | 1-50      | Time of prism movement (0.1 sec-->5 sec.)                 | proportional    |
| <b>16</b>    | <b>15</b> |           | <b>Effect wheel positioning</b>                           |                 |
|              |           | 0-19      | No function (0=default)                                   | step            |
|              |           | 20-127    | Proportional indexing                                     | 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    |

DMX protocol

| Mode/channel |           | DMX Value | Function                                                                                                                                                                        | Type of control |
|--------------|-----------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1            | 2         |           |                                                                                                                                                                                 |                 |
|              |           | 214-255   | Ramp. from half position to full position ( max. --->min. speed)                                                                                                                | proportional    |
| <b>17</b>    | <b>16</b> |           | <b>Effect wheel rotation</b>                                                                                                                                                    |                 |
|              |           | 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    |
| <b>18</b>    | <b>17</b> |           | <b>Effect wheel animations</b>                                                                                                                                                  |                 |
|              |           | 0-3       | No animation (0=default)<br><b>Note :</b> All animations were created at distance of 5 m from screen with zoom=16 DMX. Focus value for each animation is stated in brackets     |                 |
|              |           |           | <b>Coloured animations.</b> The channels are blocked: CMY, Colour wheel, Virtual colour wheel, Effect wheel positioning, Effect wheel rot., Rotat. Gobos and Rot. Gobo rotation |                 |
|              |           | 4-5       | Animation Macro 1 (Focus=159 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 6-7       | Animation Macro 2 (Focus=154 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 8-9       | Animation Macro 3 (Focus=154 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 10-11     | Animation Macro 4 (Focus=157 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 12-13     | Animation Macro 5 (Focus=157 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 14-15     | Animation Macro 6 (Focus=166DMX at 5 m )                                                                                                                                        | step            |
|              |           | 16-17     | Animation Macro 7 (Focus=145 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 18-19     | Animation Macro 8 (Focus=162 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 20-21     | Animation Macro 9 (Focus=162 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 22-23     | Animation Macro 10 (Focus=162 DMX at 5m )                                                                                                                                       | step            |
|              |           |           | <b>Black and white animations .</b> The channels are blocked: Effect wheel positioning, Effect wheel rot., Rotat. Gobos and Rot. Gobo rotation                                  |                 |
|              |           | 24-25     | Animation Macro 1 (Focus=159 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 26-27     | Animation Macro 2 (Focus=154 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 28-29     | Animation Macro 3 (Focus=154 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 30-31     | Animation Macro 4 (Focus=157 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 32-33     | Animation Macro 5 (Focus=157 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 34-35     | Animation Macro 6 (Focus=166DMX at 5 m )                                                                                                                                        | step            |
|              |           | 36-37     | Animation Macro 7 (Focus=145 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 38-39     | Animation Macro 8 (Focus=162 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 40-41     | Animation Macro 9 (Focus=162 DMX at 5 m)                                                                                                                                        | step            |
|              |           | 42-43     | Animation Macro 10 (Focus=162 DMX at 5m )                                                                                                                                       | step            |
|              |           | 44-255    | Raw DMX                                                                                                                                                                         | proportional    |
| <b>19</b>    | <b>18</b> |           | <b>Static gobo wheel</b>                                                                                                                                                        |                 |
|              |           | 0-3       | Open/Hole (0=default)                                                                                                                                                           | step            |
|              |           |           | <b>Positioning</b>                                                                                                                                                              |                 |
|              |           | 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            |

## DMX protocol

| Mode/channel |           | DMX Value | Function                                                  | Type of control |
|--------------|-----------|-----------|-----------------------------------------------------------|-----------------|
| 1            | 2         |           |                                                           |                 |
|              |           | 64-69     | Beam reducer 1                                            | step            |
|              |           | 70-75     | Beam reducer 2                                            | step            |
|              |           | 76-81     | Beam reducer 3                                            | step            |
|              |           | 82-87     | Beam reducer 4                                            | step            |
|              |           |           | <b><i>Shaking gobos from slow to fast</i></b>             |                 |
|              |           | 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 - 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    |
| <b>20</b>    | <b>19</b> |           | <b>Rotating gobo wheel</b>                                |                 |
|              |           |           | <b><i>Index - set indexing on channel 21/20</i></b>       |                 |
|              |           | 0         | Open/Hole (0=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            |
|              |           |           | <b><i>Rotation - set rotation on channel 21/20</i></b>    |                 |
|              |           | 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            |
|              |           |           | <b><i>Shaking gobo from slow to fast</i></b>              |                 |

## DMX protocol

| Mode/channel |           | DMX Value | Function                                                                                     | Type of control |
|--------------|-----------|-----------|----------------------------------------------------------------------------------------------|-----------------|
| 1            | 2         |           |                                                                                              |                 |
|              |           |           | <b><i>Index - set indexing on channel 21/20</i></b>                                          |                 |
|              |           | 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    |
|              |           |           | <b><i>Shaking gobo from slow to fast</i></b>                                                 |                 |
|              |           |           | <b><i>Rotation - set rotation on channel 21/20</i></b>                                       |                 |
|              |           | 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    |
|              |           | 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<br>(Set microphone sensitivity in menu „Personality“) | step            |
|              |           | 250 - 255 | Auto random gobo selection from fast to slow                                                 | proportional    |
| <b>21</b>    | <b>20</b> |           | <b>Rot. gobo indexing and rotation</b>                                                       |                 |
|              |           |           | <b><i>Gobo indexing - set position on channel 20/19</i></b>                                  |                 |
|              |           | 0 - 255   | Gobo indexing (128=default)                                                                  | proportional    |
|              |           |           | <b><i>Gobo rotation - set position on channel 20/19</i></b>                                  |                 |
|              |           | 0         | No rotation                                                                                  | step            |
|              |           | 1 - 127   | Forwards gobo rotation from fast to slow                                                     | proportional    |
|              |           | 128       | No rotation (128=default)                                                                    | step            |
|              |           | 129 - 255 | Backwards gobo rotation from slow to fast                                                    | proportional    |
| <b>22</b>    | <b>*</b>  |           | <b>Rot. gobo indexing/rotation - fine</b>                                                    |                 |
|              |           | 0-255     | Fine indexing/rotation (0=default)                                                           | proportional    |
| <b>23</b>    | <b>21</b> |           | <b>Prism wheel 1</b>                                                                         |                 |
|              |           |           | <i>This wheel is blocked If Rotating gobo wheel &gt;0 DMX</i>                                |                 |
|              |           | 0 - 3     | Open position/hole (0=default)                                                               | step            |
|              |           |           | <b><i>Index - set indexing on channel 24/22</i></b>                                          |                 |
|              |           | 4-7       | Prism 1 - 6-facet linear                                                                     | step            |
|              |           | 8-11      | Prism 2 - cylindrical                                                                        | step            |
|              |           | 12-15     | Prism 3 - 8-facet 12° circular                                                               | step            |
|              |           |           | <b><i>Rotation - set rotation on channel 24/22</i></b>                                       |                 |
|              |           | 16-19     | Prism 1 - 6-facet linear                                                                     | step            |
|              |           | 20-23     | Prism 2 - cylindrical                                                                        | step            |
|              |           | 24-27     | Prism 3 - 8-facet 12° circular                                                               | step            |
|              |           | 28-255    | Raw DMX                                                                                      | proportional    |

DMX protocol

| Mode/channel |           | DMX Value                                  | Function                                                                   | Type of control |
|--------------|-----------|--------------------------------------------|----------------------------------------------------------------------------|-----------------|
| 1            | 2         |                                            |                                                                            |                 |
| 24           | 22        |                                            | <b>Prism wheel 1 indexing/rotation</b>                                     |                 |
|              |           |                                            | <i>Prism indexing - set position on channel 23/21</i>                      |                 |
|              |           | 0 - 255                                    | Prism 1 indexing                                                           | proportional    |
|              |           |                                            | <i>Prism 1 rotation - set position on channel 23/21</i>                    |                 |
|              |           | 0                                          | No rotation                                                                | step            |
|              |           | 1 - 127                                    | Forwards prism rotation from fast to slow                                  | proportional    |
|              |           | 128                                        | No rotation (128=default)                                                  | step            |
|              | 129-255   | Backwards prism rotation from slow to fast | proportional                                                               |                 |
| 25           | 23        |                                            | <b>Prism wheel 2</b>                                                       |                 |
|              |           | 0 - 3                                      | Open position/hole (0=default)                                             | step            |
|              |           |                                            | <i>Index - set indexing on channel 26/24</i>                               |                 |
|              |           | 4-7                                        | Prism 1 - 6-facet linear                                                   | step            |
|              |           | 8-11                                       | Prism 2 - 32-facet circular                                                | step            |
|              |           | 12-15                                      | Prism 3 - 8-facet 18° circular                                             | step            |
|              |           |                                            | <i>Rotation - set rotation on channel 26/24</i>                            |                 |
|              |           | 16-19                                      | Prism 1 - 6-facet linear                                                   | step            |
|              |           | 20-23                                      | Prism 2 - 32-facet circular                                                | step            |
|              |           | 24-27                                      | Prism 3 - 8-facet 18° circular                                             | step            |
|              | 28-255    | Raw DMX                                    | proportional                                                               |                 |
| 26           | 24        |                                            | <b>Prism wheel 2 indexing/rotation</b>                                     |                 |
|              |           |                                            | <i>Prism indexing - set position on channel 25/23</i>                      |                 |
|              |           | 0 - 255                                    | Prism 1 indexing                                                           | proportional    |
|              |           |                                            | <i>Prism 1 rotation - set position on channel 25/23</i>                    |                 |
|              |           | 0                                          | No rotation                                                                | step            |
|              |           | 1 - 127                                    | Forwards prism rotation from fast to slow                                  | proportional    |
|              |           | 128                                        | No rotation (128=default)                                                  | step            |
|              | 129-255   | Backwards prism rotation from slow to fast | proportional                                                               |                 |
| 27           | 25        |                                            | <b>Pattern selection</b>                                                   |                 |
|              |           |                                            | <i>The channels are blocked: Prism Wheel 1/2, Prism Wheel 1/2 rotation</i> |                 |
|              |           | 0-3                                        | Open position/hole (0=default)                                             | step            |
|              |           |                                            | <i>Index - set indexing on channel 28/26</i>                               |                 |
|              |           | 4-5                                        | Pattern 1                                                                  | step            |
|              |           | 6-7                                        | Pattern 2                                                                  | step            |
|              |           | 8-9                                        | Pattern 3                                                                  | step            |
|              |           | 10-11                                      | Pattern 4                                                                  | step            |
|              |           | 12-13                                      | Pattern 5                                                                  | step            |
|              |           | 14-15                                      | Pattern 6                                                                  | step            |
|              |           | 16-17                                      | Pattern 7                                                                  | step            |
|              |           | 18-19                                      | Pattern 8                                                                  | step            |
|              |           | 20-21                                      | Pattern 9                                                                  | step            |
|              |           | 22-23                                      | Pattern 10                                                                 | step            |
|              |           | 24-25                                      | <i>Pattern 11</i>                                                          | step            |
|              |           | 26-27                                      | <i>Pattern 12</i>                                                          | step            |
|              |           |                                            | <i>Rotation - set rotation on channel 28/26</i>                            |                 |
|              |           | 28-29                                      | Pattern 1                                                                  | step            |
| 30-31        | Pattern 2 | step                                       |                                                                            |                 |
| 32-33        | Pattern 3 | step                                       |                                                                            |                 |
| 34-35        | Pattern 4 | step                                       |                                                                            |                 |
|              | 36-37     | Pattern 5                                  | step                                                                       |                 |



DMX protocol

| Mode/channel |           | DMX Value | Function                                                                                                   | Type of control |
|--------------|-----------|-----------|------------------------------------------------------------------------------------------------------------|-----------------|
| 1            | 2         |           |                                                                                                            |                 |
|              |           | 38-39     | Pattern 6                                                                                                  | step            |
|              |           | 40-41     | Pattern 7                                                                                                  | step            |
|              |           | 42-43     | Pattern 8                                                                                                  | step            |
|              |           | 44-45     | Pattern 9                                                                                                  | step            |
|              |           | 46-47     | Pattern 10                                                                                                 | step            |
|              |           | 48-49     | <i>Pattern 11</i>                                                                                          | step            |
|              |           | 50-51     | <i>Pattern 12</i>                                                                                          | step            |
|              |           |           | <b><i>Dynamic patterns-set rotation on channel 28/26</i></b>                                               |                 |
|              |           | 52-53     | Pattern 13                                                                                                 | step            |
|              |           | 54-55     | Pattern 14                                                                                                 | step            |
|              |           | 56-57     | Pattern 15                                                                                                 | step            |
|              |           | 58-59     | Pattern 16                                                                                                 | step            |
|              |           | 60-61     | Pattern 17                                                                                                 | step            |
|              |           | 62-63     | Pattern 18                                                                                                 | step            |
|              |           | 64-65     | <i>Pattern 19</i>                                                                                          | step            |
|              |           | 66-67     | <i>Pattern 20</i>                                                                                          | step            |
|              |           | 68-255    | Raw DMX                                                                                                    | proportional    |
| <b>28</b>    | <b>26</b> |           | <b>Pattern rotation and indexing</b>                                                                       |                 |
|              |           |           | <i>The channels are blocked: Prism Wheel 1/2, Prism Wheel 1/2 rot.</i>                                     |                 |
|              |           |           | <b><i>Pattern indexing - set position on channel 27/25</i></b>                                             |                 |
|              |           | 0 - 255   | Pattern indexing                                                                                           | proportional    |
|              |           |           | <b><i>Pattern rotation - set position on channel 27/25</i></b>                                             |                 |
|              |           | 0         | No rotation                                                                                                | step            |
|              |           | 1 - 127   | Forwards pattern rotation from fast to slow                                                                | proportional    |
|              |           | 128       | No rotation (128=default)                                                                                  | step            |
|              |           | 129-255   | Backwards pattern rotation from slow to fast                                                               | proportional    |
| <b>29</b>    | <b>27</b> |           | <b>Beam shaper selection</b>                                                                               |                 |
|              |           |           | <i>The channels are blocked: Pris.Wheel 1 and 2, Static gobo, Rotating gobo, Frost ( Light frost only)</i> |                 |
|              |           | 0 - 3     | Open position/hole (0=default)                                                                             | step            |
|              |           |           | <b><i>Index - set indexing on channel 30/28</i></b>                                                        |                 |
|              |           | 4-7       | Beam shaper 1                                                                                              | step            |
|              |           | 8-11      | Beam shaper 2                                                                                              | step            |
|              |           | 12-15     | Beam shaper 3                                                                                              | step            |
|              |           | 16-19     | Beam shaper 4                                                                                              | step            |
|              |           |           | <b><i>Rotation - set rotation on channel 30/28</i></b>                                                     |                 |
|              |           | 20-23     | Beam shaper 1                                                                                              | step            |
|              |           | 24-27     | Beam shaper 2                                                                                              | step            |
|              |           | 28-31     | Beam shaper 3                                                                                              | step            |
|              |           | 32-35     | Beam shaper 4                                                                                              | step            |
|              |           | 36-255    | Reserved                                                                                                   |                 |
| <b>30</b>    | <b>28</b> |           | <b>Beam shaper rotation and indexing</b>                                                                   |                 |
|              |           |           | <b><i>Beam shaper indexing - set position on channel 29/27</i></b>                                         |                 |
|              |           | 0 - 255   | Shaper indexing                                                                                            | proportional    |
|              |           |           | <b><i>Beam shaper rotation - set position on channel 29/27</i></b>                                         |                 |
|              |           | 0         | No rotation                                                                                                | step            |
|              |           | 1 - 127   | Forwards shaper rotation from fast to slow                                                                 | proportional    |
|              |           | 128       | No rotation (128=default)                                                                                  | step            |
|              |           | 129-255   | Backwards shaper rotation from slow to fast                                                                | proportional    |
| <b>31</b>    | <b>29</b> |           | <b>Frost</b>                                                                                               |                 |

DMX protocol

| Mode/channel |           | DMX Value | Function                                                                                                                                              | Type of control |
|--------------|-----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1            | 2         |           |                                                                                                                                                       |                 |
|              |           | 0         | Open (0=default)                                                                                                                                      | step            |
|              |           |           | <b>Light Frost</b>                                                                                                                                    |                 |
|              |           |           | <i>Max. time of Light frost movement 0 --&gt;100% (100% --&gt;0) is 10 sec.</i>                                                                       |                 |
|              |           | 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>                                                                                                                                   |                 |
|              |           |           | <i>Max. time of Medium frost movement 0 --&gt;100% (100% --&gt;0) is 10 sec.</i>                                                                      |                 |
|              |           | 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>                                                                                                                                 |                 |
|              |           |           | <i>Note: Combined Frost and Prism weel 1 cannot be inserted into light beam at the same time . The Prism wheel 1 has priority to Combined Frost .</i> |                 |
|              |           |           | <i>Max. time of Medium frost movement 0 --&gt;100% (100% --&gt;0) is 10 sec.</i>                                                                      |                 |
|              |           | 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    |
| <b>32</b>    | <b>30</b> |           | <b>Zoom</b>                                                                                                                                           |                 |
|              |           | 0 - 255   | Zoom from max. to min.beam angle (128=default)                                                                                                        | proportional    |
| <b>33</b>    | <b>*</b>  |           | <b>Zoom - fine</b>                                                                                                                                    |                 |
|              |           | 0-255     | Fine zooming (0=default)                                                                                                                              | proportional    |
| <b>34</b>    | <b>31</b> |           | <b>Focus</b>                                                                                                                                          |                 |
|              |           | 0 - 255   | Continuous adjustment from far to near (128=default)                                                                                                  | proportional    |
| <b>35</b>    | <b>*</b>  |           | <b>Focus Fine</b>                                                                                                                                     |                 |
|              |           | 0- 255    | Fine focusing (0=default)                                                                                                                             | proportional    |
| <b>36</b>    | <b>32</b> |           | <b>Hot-Spot control</b>                                                                                                                               |                 |
|              |           | 0         | Automatic Hot-Spot control (0=default)                                                                                                                | step            |
|              |           | 1-255     | Hot-Spot control (from min. to max. intensity of image centre)                                                                                        | proportional    |
| <b>37</b>    | <b>33</b> |           | <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, Full lamp power                                                                                                                         | step            |
| <b>38</b>    | <b>34</b> |           | <b>Dimmer intensity</b>                                                                                                                               |                 |
|              |           | 0 - 255   | Dimmer intensity from 0% to 100% (0=default)                                                                                                          | proportional    |

## DMX protocol

| Mode/channel                                                |   | DMX Value | Function                       | Type of control |
|-------------------------------------------------------------|---|-----------|--------------------------------|-----------------|
| 1                                                           | 2 |           |                                |                 |
| 39                                                          | * |           | <b>Dimmer intensity - fine</b> |                 |
|                                                             |   | 0 - 255   | Fine dimming (0=default)       | proportional    |
| Copyright © 2020 Robe Lighting s.r.o. - All rights reserved |   |           |                                |                 |
| All Specifications subject to change without notice         |   |           |                                |                 |