

## DMX protocol

| Robin DL4LF - DMX protocol - version 1.2 |   |   |           |                                                                                                                                                                                                                                             |                 |  |
|------------------------------------------|---|---|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--|
| Mode/channel                             |   |   | DMX Value | Function                                                                                                                                                                                                                                    | Type of control |  |
| 1                                        | 2 | 3 |           |                                                                                                                                                                                                                                             |                 |  |
| 1                                        | 1 | 1 |           | <b>Pan</b>                                                                                                                                                                                                                                  |                 |  |
|                                          |   |   | 0 - 255   | Pan movement by 540°                                                                                                                                                                                                                        | proportional    |  |
| 2                                        | 2 | * |           | <b>Pan Fine</b>                                                                                                                                                                                                                             |                 |  |
|                                          |   |   | 0 - 255   | Fine control of pan movement                                                                                                                                                                                                                | proportional    |  |
| 3                                        | 3 | 2 |           | <b>Tilt</b>                                                                                                                                                                                                                                 |                 |  |
|                                          |   |   | 0 - 255   | Tilt movement by 260°                                                                                                                                                                                                                       | proportional    |  |
| 4                                        | 4 | * |           | <b>Tilt fine</b>                                                                                                                                                                                                                            |                 |  |
|                                          |   |   | 0 - 255   | Fine control of tilt movement                                                                                                                                                                                                               | proportional    |  |
| 5                                        | 5 | 3 |           | <b>Pan/Tilt speed , Pan/Tilt time</b>                                                                                                                                                                                                       |                 |  |
|                                          |   |   | 0         | Max. speed-Standard Mode (0=default)                                                                                                                                                                                                        | step            |  |
|                                          |   |   |           | <b>P./T. speed-set Speed Mode in menu: Pan/Tilt Mode</b>                                                                                                                                                                                    |                 |  |
|                                          |   |   | 1 - 255   | Speed from max. to min.                                                                                                                                                                                                                     | proportional    |  |
|                                          |   |   |           | <b>P./T. time - set Time Mode in menu: Pan/Tilt Mode</b>                                                                                                                                                                                    |                 |  |
|                                          |   |   | 1 - 255   | Time from 0.1 s to 25.5 sec.                                                                                                                                                                                                                | proportional    |  |
| 6                                        | 6 | 4 |           | <b>Power/Special functions</b>                                                                                                                                                                                                              |                 |  |
|                                          |   |   |           | <i>To activate following functions, stop in DMX value for at least 3 seconds.</i>                                                                                                                                                           |                 |  |
|                                          |   |   | 0 - 4     | Flight Case Parking Position Off                                                                                                                                                                                                            | step            |  |
|                                          |   |   | 5 - 9     | Flight Case Parking Position On                                                                                                                                                                                                             | step            |  |
|                                          |   |   |           | <i>To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe“ channel 27/22/20 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden).</i> |                 |  |
|                                          |   |   | 10-14     | DMX input: Wired DMX *                                                                                                                                                                                                                      | step            |  |
|                                          |   |   | 15-19     | DMX input: Wireless DMX *                                                                                                                                                                                                                   | step            |  |
|                                          |   |   |           | * function is active only 10 seconds after switching the fixture on                                                                                                                                                                         |                 |  |
|                                          |   |   | 20-24     | White point 8000K ON                                                                                                                                                                                                                        | step            |  |
|                                          |   |   | 25-29     | White point 8000K OFF                                                                                                                                                                                                                       | step            |  |
|                                          |   |   | 30-39     | RGB colour mixing mode                                                                                                                                                                                                                      | step            |  |
|                                          |   |   | 40-49     | CMY colour mixing mode                                                                                                                                                                                                                      | step            |  |
|                                          |   |   | 50 - 59   | Pan/Tilt speed mode                                                                                                                                                                                                                         | step            |  |
|                                          |   |   | 60 - 69   | Pan/Tilt time mode                                                                                                                                                                                                                          | step            |  |
|                                          |   |   | 70 - 79   | Blackout while pan/tilt moving                                                                                                                                                                                                              | step            |  |
|                                          |   |   | 80 - 89   | Disabled blackout while pan/tilt moving                                                                                                                                                                                                     | step            |  |
|                                          |   |   | 90-94     | DL Colour compatible mode On                                                                                                                                                                                                                | step            |  |
|                                          |   |   | 95-99     | DL Colour compatible mode Off                                                                                                                                                                                                               | step            |  |
|                                          |   |   | 100-104   | Dimmer curve: Square law                                                                                                                                                                                                                    | step            |  |
|                                          |   |   | 105-109   | Dimmer curve: Linear                                                                                                                                                                                                                        | step            |  |
|                                          |   |   | 110-129   | Reserved                                                                                                                                                                                                                                    |                 |  |
|                                          |   |   |           | <i>To activate following functions, stop in DMX value for at least 3 seconds.</i>                                                                                                                                                           |                 |  |
|                                          |   |   | 130 - 139 | Fixture reset (except pan/tilt)                                                                                                                                                                                                             |                 |  |
|                                          |   |   | 140 - 149 | Pan/Tilt reset                                                                                                                                                                                                                              | step            |  |
|                                          |   |   | 150 - 179 | Reserved                                                                                                                                                                                                                                    |                 |  |
|                                          |   |   | 180 - 189 | Zoom//frost/ reset                                                                                                                                                                                                                          | step            |  |
|                                          |   |   | 190 - 199 | Beam shaper reset                                                                                                                                                                                                                           | step            |  |
|                                          |   |   | 200 - 209 | Total fixture reset                                                                                                                                                                                                                         | step            |  |
|                                          |   |   | 210 - 239 | Reserved                                                                                                                                                                                                                                    |                 |  |
|                                          |   |   | 240       | Disable "Theatre mode"                                                                                                                                                                                                                      | step            |  |

DMX protocol

| Mode/channel |           |           | DMX Value | Function                                                         | Type of control |
|--------------|-----------|-----------|-----------|------------------------------------------------------------------|-----------------|
| 1            | 2         | 3         |           |                                                                  |                 |
|              |           |           | 241       | "Theatre mode" -automatic control of fan noise                   | step            |
|              |           |           | 242 - 255 | "Theatre mode" -fan noise control from min. to max.              | proportional    |
| <b>7</b>     | <b>7</b>  | <b>5</b>  |           | <b>Virtual colour wheel</b>                                      |                 |
|              |           |           | 0         | No function                                                      | step            |
|              |           |           | 1-2       | White 2700 K                                                     | step            |
|              |           |           | 3         | White 2700 K (Halogen lamp mode**)                               | step            |
|              |           |           | 4-5       | White 3200 K                                                     | step            |
|              |           |           | 6         | White 3200 K (Halogen lamp mode**)                               | step            |
|              |           |           | 7-9       | White 4200 K                                                     | step            |
|              |           |           | 10-12     | White 5600 K                                                     | step            |
|              |           |           | 13-15     | White 8000 K                                                     | step            |
|              |           |           | 16        | Blue (Blue=full, Red+Green+White=0)                              | step            |
|              |           |           | 17-55     | Red=0, Green->up,Blue =full, White=0                             | proportional    |
|              |           |           | 56        | Light Blue (Red=0, Green=full, Blue =full, White=0)              | step            |
|              |           |           | 57 - 95   | Red=0, Green=full, Blue->down, White=0                           | proportional    |
|              |           |           | 96        | Green (Red=0, Green=full, Blue =0, White=0)                      | step            |
|              |           |           | 97 – 134  | Red->up, Green=full, Blue=0, White=0                             | proportional    |
|              |           |           | 135       | Yellow (Red=full, Green=full, Blue=0, White=0)                   | step            |
|              |           |           | 136 - 174 | Red=full, Green->down, Blue=0, White=0                           | proportional    |
|              |           |           | 175       | Red(Red=full, Green=0, Blue=0, White=0)                          | step            |
|              |           |           | 176 -214  | Red=full, Green=0, Blue->up, White=0                             | proportional    |
|              |           |           | 215       | Magenta (Red=full, Green=0, Blue=full, White=0)                  | step            |
|              |           |           | 216 - 246 | Red -> down, Green=0, Blue=full, White=0                         | proportional    |
|              |           |           | 247       | Blue (Red=0, Green=0, Blue=full, White=0)                        | step            |
|              |           |           | 248-251   | Rainbow effect (with fade time)from slow-> fast                  | proportional    |
|              |           |           | 252-255   | Rainbow effect from slow-> fast                                  | proportional    |
| <b>8</b>     | <b>8</b>  | <b>6</b>  |           | <b>Red/Cyan (8 bit)***</b>                                       |                 |
|              |           |           | 0 - 255   | Red or Cyan colour saturation control - coarse (0-100%)          | proportional    |
| <b>9</b>     | *         | *         |           | <b>Red/Cyan (16bit)***</b>                                       |                 |
|              |           |           | 0 - 255   | Red or Cyan colour saturation control - fine                     | proportional    |
| <b>10</b>    | <b>9</b>  | <b>7</b>  |           | <b>Green/Magenta (8 bit)***</b>                                  |                 |
|              |           |           | 0 - 255   | Green or Magenta colour saturation control - coarse (0-100%)     | proportional    |
| <b>11</b>    | *         | *         |           | <b>Green/Magenta (16bit)***</b>                                  |                 |
|              |           |           | 0 - 255   | Green or Magenta colour saturation control - fine                | proportional    |
| <b>12</b>    | <b>10</b> | <b>8</b>  |           | <b>Blue/Yellow (8 bit)***</b>                                    |                 |
|              |           |           | 0 - 255   | Blue or Yellow colour saturation control - coarse (0-100%)       | proportional    |
| <b>13</b>    | *         | *         |           | <b>Blue/ Yellow (16bit)***</b>                                   |                 |
|              |           |           | 0 - 255   | Blue or Yellow colour saturation control - fine                  | proportional    |
| <b>14</b>    | <b>11</b> | <b>9</b>  |           | <b>White (8 bit)</b>                                             |                 |
|              |           |           |           | If RGBW mode is selected:                                        |                 |
|              |           |           | 0-255     | White colour saturation control - coarse (0-100%)                | proportional    |
|              |           |           |           | If CMY mode is selected:                                         |                 |
|              |           |           | 0 - 255   | No function                                                      |                 |
| <b>15</b>    | *         | *         |           | <b>White (16 bit)</b>                                            |                 |
|              |           |           | 0 - 255   | White colour saturation control - fine (RGBW mode only)          | proportional    |
| <b>16</b>    | <b>12</b> | <b>10</b> |           | <b>CTC</b>                                                       |                 |
|              |           |           |           | <i>If function "White Point 8000K" is ON</i>                     |                 |
|              |           |           | 0-255     | Col. temperature correction from 8000K to 2700K -for whites only | proportional    |

## DMX protocol

| Mode/channel |           |           | DMX Value | Function                                                                                                                                                                                                                                        | Type of control |
|--------------|-----------|-----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1            | 2         | 3         |           |                                                                                                                                                                                                                                                 |                 |
|              |           |           |           | (0=8000K, 64=5600K, 128=4200K, 192=3200K, 0=2700K)<br>To get colour temperatures stated above, RGBW channels have to be set at the same value (e.g. 255DMX) or RGB=0 and White channel > 0 DMX<br><i>If function "White Point 8000K" is OFF</i> |                 |
|              |           |           | 0-255     | Colour temperature correction for mixed colours                                                                                                                                                                                                 | proportional    |
| <b>17</b>    | <b>13</b> | <b>11</b> |           | <b>Wide zoom</b>                                                                                                                                                                                                                                |                 |
|              |           |           | 0         | Wide zoom Off                                                                                                                                                                                                                                   | step            |
|              |           |           | 1-100     | Wide zoom On                                                                                                                                                                                                                                    | step            |
|              |           |           | 101-255   | Reserved                                                                                                                                                                                                                                        |                 |
| <b>18</b>    | <b>14</b> | <b>12</b> |           | <b>Zoom</b>                                                                                                                                                                                                                                     |                 |
|              |           |           | 0 - 255   | Zoom from min. to max. beam angle                                                                                                                                                                                                               | proportional    |
| <b>19</b>    | *         | *         |           | <b>Zoom - fine</b>                                                                                                                                                                                                                              |                 |
|              |           |           | 0-255     | Fine zooming                                                                                                                                                                                                                                    | proportional    |
| <b>20</b>    | <b>15</b> | <b>13</b> |           | <b>Barndoors rotation</b>                                                                                                                                                                                                                       |                 |
|              |           |           | 0- 255    | Rotation 0°--> 180°                                                                                                                                                                                                                             | proportional    |
| <b>21</b>    | <b>16</b> | <b>14</b> |           | <b>Barndoor 1- movement</b>                                                                                                                                                                                                                     |                 |
|              |           |           | 0- 255    | Movement Out-->In                                                                                                                                                                                                                               | proportional    |
| <b>22</b>    | <b>17</b> | <b>15</b> |           | <b>Barndoor 2- movement</b>                                                                                                                                                                                                                     |                 |
|              |           |           | 0- 255    | Movement Out-->In                                                                                                                                                                                                                               | proportional    |
| <b>23</b>    | <b>18</b> | <b>16</b> |           | <b>Barndoor 3- movement</b>                                                                                                                                                                                                                     |                 |
|              |           |           | 0- 255    | Movement Out-->In                                                                                                                                                                                                                               | proportional    |
| <b>24</b>    | <b>19</b> | <b>17</b> |           | <b>Barndoor 4- movement</b>                                                                                                                                                                                                                     |                 |
|              |           |           | 0- 255    | Movement Out-->In                                                                                                                                                                                                                               | proportional    |
| <b>25</b>    | <b>20</b> | <b>18</b> |           | <b>Barndoors macros</b>                                                                                                                                                                                                                         |                 |
|              |           |           | 0-3       | No function                                                                                                                                                                                                                                     |                 |
|              |           |           | 4-7       | Macro 1                                                                                                                                                                                                                                         | step            |
|              |           |           | 8-11      | Macro 2                                                                                                                                                                                                                                         | step            |
|              |           |           | 12-15     | Macro 3                                                                                                                                                                                                                                         | step            |
|              |           |           | 16-19     | Macro 4                                                                                                                                                                                                                                         | step            |
|              |           |           | 20-23     | Macro 5                                                                                                                                                                                                                                         | step            |
|              |           |           | 24-27     | Macro 6                                                                                                                                                                                                                                         | step            |
|              |           |           | 28-31     | Macro 7                                                                                                                                                                                                                                         | step            |
|              |           |           | 32-35     | Macro 8                                                                                                                                                                                                                                         | step            |
|              |           |           | 36-39     | Macro 9                                                                                                                                                                                                                                         | step            |
|              |           |           | 40-43     | Macro 10                                                                                                                                                                                                                                        | step            |
|              |           |           | 44-47     | Macro 11                                                                                                                                                                                                                                        | step            |
|              |           |           | 48-51     | Macro 12                                                                                                                                                                                                                                        | step            |
|              |           |           | 52-55     | Macro 13                                                                                                                                                                                                                                        | step            |
|              |           |           | 56-59     | Macro 14                                                                                                                                                                                                                                        | step            |
|              |           |           | 60-63     | Macro 15                                                                                                                                                                                                                                        | step            |
|              |           |           | 64-67     | Macro 16                                                                                                                                                                                                                                        | step            |
|              |           |           | 68-71     | Macro 17                                                                                                                                                                                                                                        | step            |
|              |           |           | 72-75     | Macro 18                                                                                                                                                                                                                                        | step            |
|              |           |           | 76-79     | Macro 19                                                                                                                                                                                                                                        | step            |
|              |           |           | 80-83     | Macro 20                                                                                                                                                                                                                                        | step            |
|              |           |           | 84-87     | Macro 21                                                                                                                                                                                                                                        | step            |
|              |           |           | 88-91     | Macro 22                                                                                                                                                                                                                                        | step            |
|              |           |           | 92-95     | Macro 23                                                                                                                                                                                                                                        | step            |
|              |           |           | 96-99     | Macro 24                                                                                                                                                                                                                                        | step            |

DMX protocol

| Mode/channel                                                                                         |           |           | DMX Value | Function                                     | Type of control |
|------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|----------------------------------------------|-----------------|
| 1                                                                                                    | 2         | 3         |           |                                              |                 |
|                                                                                                      |           |           | 100-103   | Macro 25                                     | step            |
|                                                                                                      |           |           | 104-107   | Macro 26                                     | step            |
|                                                                                                      |           |           | 108-111   | Macro 27                                     | step            |
|                                                                                                      |           |           | 112-115   | Macro 28                                     | step            |
|                                                                                                      |           |           | 116-119   | Macro 29                                     | step            |
|                                                                                                      |           |           | 120-123   | Macro 30                                     | step            |
|                                                                                                      |           |           | 124-127   | Macro 31                                     | step            |
|                                                                                                      |           |           | 128-131   | Macro 32                                     | step            |
|                                                                                                      |           |           | 132-135   | Macro 33                                     | step            |
|                                                                                                      |           |           | 136-139   | Macro 34                                     | step            |
|                                                                                                      |           |           | 140-143   | Macro 35                                     | step            |
|                                                                                                      |           |           | 144-147   | Macro 36                                     | step            |
|                                                                                                      |           |           | 148-151   | Macro 37                                     | step            |
|                                                                                                      |           |           | 152-155   | Macro 38                                     | step            |
|                                                                                                      |           |           | 156-159   | Macro 39                                     | step            |
|                                                                                                      |           |           | 160-163   | Macro 40                                     | step            |
|                                                                                                      |           |           | 164-167   | Macro 41                                     | step            |
|                                                                                                      |           |           | 168-255   | Reserved                                     |                 |
| <b>26</b>                                                                                            | <b>21</b> | <b>19</b> |           | <b>Barndoors macro speed</b>                 |                 |
|                                                                                                      |           |           | 0- 255    | Speed from slow to fast.                     | proportional    |
| <b>27</b>                                                                                            | <b>22</b> | <b>20</b> |           | <b>Shutter/ strobe</b>                       |                 |
|                                                                                                      |           |           | 0 - 31    | Shutter closed                               | step            |
|                                                                                                      |           |           | 32 - 63   | Shutter open                                 | step            |
|                                                                                                      |           |           | 64 - 95   | Strobe-effect from slow to fast              | proportional    |
|                                                                                                      |           |           | 96 - 127  | Shutter open                                 | step            |
|                                                                                                      |           |           | 128 - 143 | Opening pulse in sequences from slow to fast | proportional    |
|                                                                                                      |           |           | 144 - 159 | Closing pulse in sequences from fast to slow | proportional    |
|                                                                                                      |           |           | 160 - 191 | Shutter open                                 | step            |
|                                                                                                      |           |           | 192 - 223 | Random strobe-effect from slow to fast       | proportional    |
|                                                                                                      |           |           | 224 - 255 | Shutter open                                 | step            |
| <b>28</b>                                                                                            | <b>23</b> | <b>21</b> |           | <b>Dimmer intensity</b>                      |                 |
|                                                                                                      |           |           | 0 - 255   | Dimmer intensity from 0% to 100%             | proportional    |
| <b>29</b>                                                                                            | *         | *         |           | <b>Dimmer intensity - fine</b>               |                 |
|                                                                                                      |           |           | 0 - 255   | Fine dimming                                 | proportional    |
| ** In the Halogen lamp mode the Dimmer channel imitates behaviour of the halogen lamp during dimming |           |           |           |                                              |                 |
| *** Select RGB or CMY mixing mode on channel "Power/Special functions"                               |           |           |           |                                              |                 |

| <b>Virtual colour wheel - colour mixing chart</b> |                             |            |              |             |              |
|---------------------------------------------------|-----------------------------|------------|--------------|-------------|--------------|
| <b>Scale*</b>                                     | <b>Virtual Colour Wheel</b> | <b>Red</b> | <b>Green</b> | <b>Blue</b> | <b>White</b> |
|                                                   | DMX                         | DMX        | DMX          | DMX         | DMX          |
|                                                   | Theatre mode off            |            |              |             |              |
|                                                   | 1-3 (White 2700K)           | 255        | 176          | 8           | 20           |
|                                                   | 4-6 (White 3200K)           | 255        | 201          | 12          | 100          |
|                                                   | 7-9 (White 4200K)           | 249        | 243          | 28          | 200          |
|                                                   | 10-12 (White 5600K)         | 165        | 255          | 36          | 255          |
|                                                   | 13-15 (White 8000K)         | 172        | 255          | 65          | 255          |
|                                                   | Theatre mode on             |            |              |             |              |
|                                                   | 1-3 (White 2700K)           | 255        | 176          | 8           | 20           |
|                                                   | 4-6 (White 3200K)           | 255        | 201          | 12          | 100          |
|                                                   | 7-9 (White 4200K)           | 248        | 253          | 31          | 35           |
|                                                   | 10-12 (White 5600K)         | 209        | 255          | 46          | 63           |
|                                                   | 13-15 (White 8000K)         | 171        | 255          | 61          | 61           |
|                                                   | 16                          | 0          | 0            | 255         | 0            |
|                                                   | 17                          | 0          | 3            | 255         | 0            |
|                                                   | 18                          | 0          | 6            | 255         | 0            |
|                                                   | 19                          | 0          | 9            | 255         | 0            |
|                                                   | 20                          | 0          | 12           | 255         | 0            |
|                                                   | 21                          | 0          | 15           | 255         | 0            |
|                                                   | 22                          | 0          | 18           | 255         | 0            |
|                                                   | 23                          | 0          | 21           | 255         | 0            |
|                                                   | 24                          | 0          | 24           | 255         | 0            |
|                                                   | 25                          | 0          | 27           | 255         | 0            |
|                                                   | 26                          | 0          | 30           | 255         | 0            |
|                                                   | 27                          | 0          | 36           | 255         | 0            |
|                                                   | 28                          | 0          | 41           | 255         | 0            |
|                                                   | 29                          | 0          | 46           | 255         | 0            |
|                                                   | 30                          | 0          | 52           | 255         | 0            |
|                                                   | 31                          | 0          | 58           | 255         | 0            |
|                                                   | 32                          | 0          | 64           | 255         | 0            |
|                                                   | 33                          | 0          | 68           | 255         | 0            |
|                                                   | 34                          | 0          | 74           | 255         | 0            |
|                                                   | 35                          | 0          | 80           | 255         | 0            |
|                                                   | 36                          | 0          | 86           | 255         | 0            |
|                                                   | 37                          | 0          | 92           | 255         | 0            |
|                                                   | 38                          | 0          | 98           | 255         | 0            |
|                                                   | 39                          | 0          | 104          | 255         | 0            |
|                                                   | 40                          | 0          | 110          | 255         | 0            |
|                                                   | 41                          | 0          | 119          | 255         | 0            |
|                                                   | 42                          | 0          | 129          | 255         | 0            |
|                                                   | 43                          | 0          | 138          | 255         | 0            |
|                                                   | 44                          | 0          | 147          | 255         | 0            |
|                                                   | 45                          | 0          | 156          | 255         | 0            |
|                                                   | 46                          | 0          | 165          | 255         | 0            |
|                                                   | 47                          | 0          | 174          | 255         | 0            |
|                                                   | 48                          | 0          | 183          | 255         | 0            |
|                                                   | 49                          | 0          | 192          | 255         | 0            |
|                                                   | 50                          | 0          | 201          | 255         | 0            |
|                                                   | 51                          | 0          | 210          | 255         | 0            |
|                                                   | 52                          | 0          | 219          | 255         | 0            |
|                                                   | 53                          | 0          | 228          | 255         | 0            |
|                                                   | 54                          | 0          | 237          | 255         | 0            |
|                                                   | 55                          | 0          | 246          | 255         | 0            |
|                                                   | 56                          | 0          | 255          | 255         | 0            |
|                                                   | 57                          | 0          | 255          | 246         | 0            |
|                                                   | 58                          | 0          | 255          | 237         | 0            |

| Scale* | Virtual Colour Wheel | Red | Green | Blue | White |
|--------|----------------------|-----|-------|------|-------|
|        | DMX                  | DMX | DMX   | DMX  | DMX   |
|        | 59                   | 0   | 255   | 228  | 0     |
|        | 60                   | 0   | 255   | 219  | 0     |
|        | 61                   | 0   | 255   | 210  | 0     |
|        | 62                   | 0   | 255   | 201  | 0     |
|        | 63                   | 0   | 255   | 192  | 0     |
|        | 64                   | 0   | 255   | 183  | 0     |
|        | 65                   | 0   | 255   | 174  | 0     |
|        | 66                   | 0   | 255   | 165  | 0     |
|        | 67                   | 0   | 255   | 156  | 0     |
|        | 68                   | 0   | 255   | 147  | 0     |
|        | 69                   | 0   | 255   | 138  | 0     |
|        | 70                   | 0   | 255   | 129  | 0     |
|        | 71                   | 0   | 255   | 119  | 0     |
|        | 72                   | 0   | 255   | 110  | 0     |
|        | 73                   | 0   | 255   | 104  | 0     |
|        | 74                   | 0   | 255   | 98   | 0     |
|        | 75                   | 0   | 255   | 92   | 0     |
|        | 76                   | 0   | 255   | 86   | 0     |
|        | 77                   | 0   | 255   | 80   | 0     |
|        | 78                   | 0   | 255   | 74   | 0     |
|        | 79                   | 0   | 255   | 68   | 0     |
|        | 80                   | 0   | 255   | 64   | 0     |
|        | 81                   | 0   | 255   | 58   | 0     |
|        | 82                   | 0   | 255   | 52   | 0     |
|        | 83                   | 0   | 255   | 46   | 0     |
|        | 84                   | 0   | 255   | 41   | 0     |
|        | 82                   | 0   | 255   | 36   | 0     |
|        | 86                   | 0   | 255   | 30   | 0     |
|        | 87                   | 0   | 255   | 27   | 0     |
|        | 88                   | 0   | 255   | 24   | 0     |
|        | 89                   | 0   | 255   | 21   | 0     |
|        | 90                   | 0   | 255   | 18   | 0     |
|        | 91                   | 0   | 255   | 15   | 0     |
|        | 92                   | 0   | 255   | 12   | 0     |
|        | 93                   | 0   | 255   | 9    | 0     |
|        | 94                   | 0   | 255   | 6    | 0     |
|        | 95                   | 0   | 255   | 3    | 0     |
|        | 96                   | 0   | 255   | 0    | 0     |
|        | 97                   | 3   | 255   | 0    | 0     |
|        | 98                   | 6   | 255   | 0    | 0     |
|        | 99                   | 9   | 255   | 0    | 0     |
|        | 100                  | 12  | 255   | 0    | 0     |
|        | 101                  | 15  | 255   | 0    | 0     |
|        | 102                  | 18  | 255   | 0    | 0     |
|        | 103                  | 21  | 255   | 0    | 0     |
|        | 104                  | 24  | 255   | 0    | 0     |
|        | 105                  | 27  | 255   | 0    | 0     |
|        | 106                  | 30  | 255   | 0    | 0     |
|        | 107                  | 36  | 255   | 0    | 0     |
|        | 108                  | 41  | 255   | 0    | 0     |
|        | 109                  | 46  | 255   | 0    | 0     |
|        | 110                  | 52  | 255   | 0    | 0     |
|        | 111                  | 58  | 255   | 0    | 0     |
|        | 112                  | 64  | 255   | 0    | 0     |
|        | 113                  | 68  | 255   | 0    | 0     |
|        | 114                  | 74  | 255   | 0    | 0     |

| Scale* | Virtual Colour Wheel | Red | Green | Blue | White |
|--------|----------------------|-----|-------|------|-------|
|        | DMX                  | DMX | DMX   | DMX  | DMX   |
|        | 115                  | 80  | 255   | 0    | 0     |
|        | 116                  | 86  | 255   | 0    | 0     |
|        | 117                  | 92  | 255   | 0    | 0     |
|        | 118                  | 98  | 255   | 0    | 0     |
|        | 119                  | 104 | 255   | 0    | 0     |
|        | 120                  | 110 | 255   | 0    | 0     |
|        | 121                  | 119 | 255   | 0    | 0     |
|        | 122                  | 129 | 255   | 0    | 0     |
|        | 123                  | 138 | 255   | 0    | 0     |
|        | 124                  | 147 | 255   | 0    | 0     |
|        | 125                  | 156 | 255   | 0    | 0     |
|        | 126                  | 165 | 255   | 0    | 0     |
|        | 127                  | 174 | 255   | 0    | 0     |
|        | 128                  | 183 | 255   | 0    | 0     |
|        | 129                  | 192 | 255   | 0    | 0     |
|        | 130                  | 201 | 255   | 0    | 0     |
|        | 131                  | 210 | 255   | 0    | 0     |
|        | 132                  | 219 | 255   | 0    | 0     |
|        | 133                  | 228 | 255   | 0    | 0     |
|        | 134                  | 240 | 255   | 0    | 0     |
|        | 135                  | 255 | 255   | 0    | 0     |
|        | 136                  | 255 | 246   | 0    | 0     |
|        | 137                  | 255 | 237   | 0    | 0     |
|        | 138                  | 255 | 228   | 0    | 0     |
|        | 139                  | 255 | 219   | 0    | 0     |
|        | 140                  | 255 | 210   | 0    | 0     |
|        | 141                  | 255 | 201   | 0    | 0     |
|        | 142                  | 255 | 192   | 0    | 0     |
|        | 143                  | 255 | 183   | 0    | 0     |
|        | 144                  | 255 | 174   | 0    | 0     |
|        | 145                  | 255 | 165   | 0    | 0     |
|        | 146                  | 255 | 156   | 0    | 0     |
|        | 147                  | 255 | 147   | 0    | 0     |
|        | 148                  | 255 | 138   | 0    | 0     |
|        | 149                  | 255 | 129   | 0    | 0     |
|        | 150                  | 255 | 119   | 0    | 0     |
|        | 151                  | 255 | 110   | 0    | 0     |
|        | 152                  | 255 | 104   | 0    | 0     |
|        | 153                  | 255 | 98    | 0    | 0     |
|        | 154                  | 255 | 92    | 0    | 0     |
|        | 155                  | 255 | 86    | 0    | 0     |
|        | 156                  | 255 | 80    | 0    | 0     |
|        | 157                  | 255 | 74    | 0    | 0     |
|        | 158                  | 255 | 68    | 0    | 0     |
|        | 159                  | 255 | 64    | 0    | 0     |
|        | 160                  | 255 | 58    | 0    | 0     |
|        | 161                  | 255 | 52    | 0    | 0     |
|        | 162                  | 255 | 46    | 0    | 0     |
|        | 163                  | 255 | 41    | 0    | 0     |
|        | 164                  | 255 | 36    | 0    | 0     |
|        | 165                  | 255 | 30    | 0    | 0     |
|        | 166                  | 255 | 27    | 0    | 0     |
|        | 167                  | 255 | 24    | 0    | 0     |
|        | 168                  | 255 | 21    | 0    | 0     |
|        | 169                  | 255 | 18    | 0    | 0     |
|        | 170                  | 255 | 15    | 0    | 0     |

| Scale* | Virtual Colour Wheel | Red | Green | Blue | White |
|--------|----------------------|-----|-------|------|-------|
|        | DMX                  | DMX | DMX   | DMX  | DMX   |
|        | 171                  | 255 | 12    | 0    | 0     |
|        | 172                  | 255 | 9     | 0    | 0     |
|        | 173                  | 255 | 6     | 0    | 0     |
|        | 174                  | 255 | 3     | 0    | 0     |
|        | 175                  | 255 | 0     | 0    | 0     |
|        | 176                  | 255 | 0     | 3    | 0     |
|        | 177                  | 255 | 0     | 6    | 0     |
|        | 178                  | 255 | 0     | 9    | 0     |
|        | 179                  | 255 | 0     | 12   | 0     |
|        | 180                  | 255 | 0     | 15   | 0     |
|        | 181                  | 255 | 0     | 18   | 0     |
|        | 182                  | 255 | 0     | 21   | 0     |
|        | 183                  | 255 | 0     | 24   | 0     |
|        | 184                  | 255 | 0     | 27   | 0     |
|        | 185                  | 255 | 0     | 30   | 0     |
|        | 186                  | 255 | 0     | 36   | 0     |
|        | 187                  | 255 | 0     | 41   | 0     |
|        | 188                  | 255 | 0     | 46   | 0     |
|        | 189                  | 255 | 0     | 52   | 0     |
|        | 190                  | 255 | 0     | 58   | 0     |
|        | 191                  | 255 | 0     | 64   | 0     |
|        | 192                  | 255 | 0     | 68   | 0     |
|        | 193                  | 255 | 0     | 74   | 0     |
|        | 194                  | 255 | 0     | 80   | 0     |
|        | 195                  | 255 | 0     | 86   | 0     |
|        | 196                  | 255 | 0     | 92   | 0     |
|        | 197                  | 255 | 0     | 98   | 0     |
|        | 198                  | 255 | 0     | 104  | 0     |
|        | 199                  | 255 | 0     | 110  | 0     |
|        | 200                  | 255 | 0     | 119  | 0     |
|        | 201                  | 255 | 0     | 129  | 0     |
|        | 202                  | 255 | 0     | 138  | 0     |
|        | 203                  | 255 | 0     | 147  | 0     |
|        | 204                  | 255 | 0     | 156  | 0     |
|        | 205                  | 255 | 0     | 165  | 0     |
|        | 206                  | 255 | 0     | 174  | 0     |
|        | 207                  | 255 | 0     | 183  | 0     |
|        | 208                  | 255 | 0     | 192  | 0     |
|        | 209                  | 255 | 0     | 201  | 0     |
|        | 210                  | 255 | 0     | 210  | 0     |
|        | 211                  | 255 | 0     | 219  | 0     |
|        | 212                  | 255 | 0     | 228  | 0     |
|        | 213                  | 255 | 0     | 237  | 0     |
|        | 214                  | 255 | 0     | 246  | 0     |
|        | 215                  | 255 | 0     | 255  | 0     |
|        | 216                  | 246 | 0     | 255  | 0     |
|        | 217                  | 237 | 0     | 255  | 0     |
|        | 218                  | 228 | 0     | 255  | 0     |
|        | 219                  | 219 | 0     | 255  | 0     |
|        | 220                  | 210 | 0     | 255  | 0     |
|        | 221                  | 201 | 0     | 255  | 0     |
|        | 222                  | 192 | 0     | 255  | 0     |
|        | 223                  | 183 | 0     | 255  | 0     |
|        | 224                  | 174 | 0     | 255  | 0     |
|        | 225                  | 165 | 0     | 255  | 0     |
|        | 226                  | 156 | 0     | 255  | 0     |



| <b>Scale*</b>                          | <b>Virtual Colour Wheel</b> | <b>Red</b> | <b>Green</b> | <b>Blue</b> | <b>White</b> |
|----------------------------------------|-----------------------------|------------|--------------|-------------|--------------|
|                                        | DMX                         | DMX        | DMX          | DMX         | DMX          |
|                                        | 227                         | 147        | 0            | 255         | 0            |
|                                        | 228                         | 138        | 0            | 255         | 0            |
|                                        | 229                         | 129        | 0            | 255         | 0            |
|                                        | 230                         | 119        | 0            | 255         | 0            |
|                                        | 231                         | 110        | 0            | 255         | 0            |
|                                        | 232                         | 104        | 0            | 255         | 0            |
|                                        | 233                         | 98         | 0            | 255         | 0            |
|                                        | 234                         | 91         | 0            | 255         | 0            |
|                                        | 235                         | 84         | 0            | 255         | 0            |
|                                        | 236                         | 77         | 0            | 255         | 0            |
|                                        | 237                         | 70         | 0            | 255         | 0            |
|                                        | 238                         | 63         | 0            | 255         | 0            |
|                                        | 239                         | 56         | 0            | 255         | 0            |
|                                        | 240                         | 49         | 0            | 255         | 0            |
|                                        | 241                         | 42         | 0            | 255         | 0            |
|                                        | 242                         | 35         | 0            | 255         | 0            |
|                                        | 243                         | 28         | 0            | 255         | 0            |
|                                        | 244                         | 21         | 0            | 255         | 0            |
|                                        | 245                         | 14         | 0            | 255         | 0            |
|                                        | 246                         | 7          | 0            | 255         | 0            |
|                                        | 247                         | 0          | 0            | 255         | 0            |
|                                        | 248-255 (Rainbow effect)    | ****       | ****         | ****        | ****         |
| * Colour scale as an illustration only |                             |            |              |             |              |