

# DMX Channel Index

impression<sup>®</sup>  
X4BAR



20

from software version: v0.60



**GERMAN LIGHT  
PRODUCTS**

— since 1994 —

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You can choose between 7 DMX modes each designed for different applications and preferences:

- **Normal Mode (34 Channels):**  
Most common mode with all basic functions
- **Compressed Mode (19 Channels):**  
Limited channel mode.  
Channels are sorted to match the impression X4 normal mode.
- **High Resolution Mode (35 Channels):**  
Same as the Normal Mode but with 16bit dimming
- **Single Pixel Mode (88 Channels):**  
Individual control of the RGBW values for each pixel (i.e. for pixel mapping)
- **Single Pixel High Resolution Mode (89 Channels):**  
Same as the Single Pixel Mode but with 16bit dimming
- **Dual Pixel Mode (48 Channels):**  
Same as the the Single Pixel Mode but with 2 pixel combined as one to reduce the channel count.
- **Dual Pixel High Resolution Mode (49 Channels):**  
Same as the Dual Pixel Mode but with 16bit dimming

## 1 Normal Mode (norm) 34 DMX channels:

| Channel                           | Function                                | Time and Value            | DMX      |
|-----------------------------------|---|---------------------------|----------|
| <b>1 Tilt - High</b>              | Tilt coarse                             | 0° - 210°                 | 0..255   |
| <b>2 Tilt - Low</b>               | Tilt fine                               |                           | 0..255   |
| <b>3 Zoom</b>                     | Wide (flood) - narrow (spot)            | 50° - 7°                  | 0..255   |
| <b>4 CTO</b>                      | No CTO                                  |                           | 0..7     |
|                                   | Continuous color temperature correction | Applicable for ALL colors | 8..255   |
| <b>5 Set 1 Color (fixed)</b>      | Colors adjustable via RGB               |                           | 0..7     |
|                                   | Color 01 - Red <sup>1)</sup>            |                           | 8..15    |
|                                   | Color 02 - Amber <sup>1)</sup>          |                           | 16..23   |
|                                   | Color 03 - Warm Yellow <sup>1)</sup>    |                           | 24..31   |
|                                   | Color 04 - Yellow <sup>1)</sup>         |                           | 32..39   |
|                                   | Color 05 - Green <sup>1)</sup>          |                           | 40..47   |
|                                   | Color 06 - Turquoise <sup>1)</sup>      |                           | 48..55   |
|                                   | Color 07 - Cyan <sup>1)</sup>           |                           | 56..63   |
|                                   | Color 08 - Blue <sup>1)</sup>           |                           | 64..71   |
|                                   | Color 09 - Lavender <sup>1)</sup>       |                           | 72..79   |
|                                   | Color 10 - Malve <sup>1)</sup>          |                           | 80..87   |
|                                   | Color 11 - Magenta <sup>1)</sup>        |                           | 88..95   |
|                                   | Color 12 - Pink <sup>1)</sup>           |                           | 96..103  |
|                                   | White - CTO                             | 3200K                     | 104..111 |
|                                   | White                                   | 5600K                     | 112..119 |
| White - CTB                       | 7200K                                   | 120..127                  |          |
| Rainbow Effect Stop <sup>2)</sup> |   | 128                       |          |
| Rainbow Effect <sup>3)</sup>      | slow - fast                             | 129..223                  |          |
| Random colors                     | slow - fast                             | 224..255                  |          |
| <b>6 Set 1 Red</b>                | Color mixing system - Red               | 0 - 100%                  | 0..255   |
| <b>7 Set 1 Green</b>              | Color mixing system - Green             | 0 - 100%                  | 0..255   |
| <b>8 Set 1 Blue</b>               | Color mixing system - Blue              | 0 - 100%                  | 0..255   |
| <b>9 Set 1 White</b>              | Color mixing system - White             | 0 - 100%                  | 0..255   |
| <b>10 Set 1 Intensity</b>         | Intensity                               | 0 - 100%                  | 0..255   |
| <b>11 Shutter</b>                 | Shutter closed                          |                           | 0..15    |
|                                   | Shutter pulse random                    | slow – fast               | 16..47   |
|                                   | Fade on, snap off (random patterns)     | slow – fast               | 48..79   |
|                                   | Snap on, fade off (random patterns)     | slow – fast               | 80..111  |
|                                   | Fade on, fade off (random patterns)     | slow – fast               | 112..143 |
|                                   | Strobe random                           | 5s - 0.1s                 | 144..199 |

|   |   |              |                      |
|---|---|--------------|----------------------|
|   | Strobe effect slow - fast<br>Shutter open | 1 Hz - 10 Hz | 200..239<br>240..255 |
| <b>12 Intensity</b>                     | Intensity                                 | 0 - 100%     | 0..255               |
| <b>13 Special <sup>5)</sup></b>         | See special features below <sup>5)</sup>  | -            | -                    |
| <b>14 Set 2 Color <sup>4)</sup></b>     | Values see Channel 5                      | -            | -                    |
| <b>15 Set 2 Red <sup>4)</sup></b>       | Color mixing system - Red                 | 0 - 100%     | 0..255               |
| <b>16 Set 2 Green <sup>4)</sup></b>     | Color mixing system - Green               | 0 - 100%     | 0..255               |
| <b>17 Set 2 Blue <sup>4)</sup></b>      | Color mixing system - Blue                | 0 - 100%     | 0..255               |
| <b>18 Set 2 White <sup>4)</sup></b>     | Color mixing system - White               | 0 - 100%     | 0..255               |
| <b>19 Set 2 Intensity <sup>4)</sup></b> | Intensity                                 | 0 - 100%     | 0..255               |
| <b>20 Set 3 Color <sup>4)</sup></b>     | Values see Channel 5                      | -            | -                    |
| <b>21 Set 3 Red <sup>4)</sup></b>       | Color mixing system - Red                 | 0 - 100%     | 0..255               |
| <b>22 Set 3 Green <sup>4)</sup></b>     | Color mixing system - Green               | 0 - 100%     | 0..255               |
| <b>23 Set 3 Blue <sup>4)</sup></b>      | Color mixing system - Blue                | 0 - 100%     | 0..255               |
| <b>24 Set 3 White <sup>4)</sup></b>     | Color mixing system - White               | 0 - 100%     | 0..255               |
| <b>25 Set 3 Intensity <sup>4)</sup></b> | Intensity                                 | 0 - 100%     | 0..255               |
| <b>26 Crossfade</b>                     | 0..2 seconds transition time              |              | 0..255               |
| <b>27 Star Effect</b>                   | Random internal shutter effect            | slow – fast  | 0..255               |
| <b>28 Set 1 Pattern<br/>Select</b>      |   |              | 0..255               |
| <b>29 Set 1 Pattern<br/>Movement</b>    |   |              | 0..255               |
| <b>30 Set 2 Pattern<br/>Select</b>      |   |              | 0..255               |
| <b>31 Set 2 Pattern<br/>Movement</b>    |   |              | 0..255               |
| <b>32 Pixel Select<br/>1 - 8</b>        |   |              | 0..255               |
| <b>33 Pixel Select<br/>9 - 16</b>       |   |              | 0..255               |
| <b>34 Pixel Select<br/>17 - 20</b>      |   |              | 0..255               |

## 2 Compressed Mode (comp) 20 DMX Channels:

| Channel                           | Function                             | Time and Value | DMX      |
|-----------------------------------|--------------------------------------|----------------|----------|
| <b>1 None</b>                     | reserved                             |                | -        |
| <b>2 None</b>                     | reserved                             |                | -        |
| <b>3 Tilt - High</b>              | Tilt coarse                          | 0° - 210°      | 0..255   |
| <b>4 Tilt - Low</b>               | Tilt fine                            |                | 0..255   |
| <b>5 Set 1 Color (fixed)</b>      | Colors adjustable via RGB            |                | 0..7     |
|                                   | Color 01 - Red <sup>1)</sup>         |                | 8..15    |
|                                   | Color 02 - Amber <sup>1)</sup>       |                | 16..23   |
|                                   | Color 03 - Warm Yellow <sup>1)</sup> |                | 24..31   |
|                                   | Color 04 - Yellow <sup>1)</sup>      |                | 32..39   |
|                                   | Color 05 - Green <sup>1)</sup>       |                | 40..47   |
|                                   | Color 06 - Turquoise <sup>1)</sup>   |                | 48..55   |
|                                   | Color 07 - Cyan <sup>1)</sup>        |                | 56..63   |
|                                   | Color 08 - Blue <sup>1)</sup>        |                | 64..71   |
|                                   | Color 09 - Lavender <sup>1)</sup>    |                | 72..79   |
|                                   | Color 10 - Malve <sup>1)</sup>       |                | 80..87   |
|                                   | Color 11 - Magenta <sup>1)</sup>     |                | 88..95   |
|                                   | Color 12 - Pink <sup>1)</sup>        |                | 96..103  |
|                                   | White - CTO                          | 3200K          | 104..111 |
|                                   | White                                | 5600K          | 112..119 |
|                                   | White - CTB                          | 7200K          | 120..127 |
| Rainbow Effect Stop <sup>2)</sup> |                                      | 128            |          |
| Rainbow Effect <sup>3)</sup>      | slow - fast                          | 129..223       |          |
| Random colors                     | slow - fast                          | 224..255       |          |
| <b>6 Set 1 Red</b>                | Color mixing system - Red            | 0 - 100%       | 0..255   |
| <b>7 Set 1 Green</b>              | Color mixing system - Green          | 0 - 100%       | 0..255   |
| <b>8 Set 1 Blue</b>               | Color mixing system - Blue           | 0 - 100%       | 0..255   |
| <b>9 Set 1 White</b>              | Color mixing system - White          | 0 - 100%       | 0..255   |
| <b>10 Shutter</b>                 | Shutter closed                       |                | 0..15    |
|                                   | Shutter pulse random                 | slow – fast    | 16..47   |
|                                   | Fade on, snap off (random patterns)  | slow – fast    | 48..79   |
|                                   | Snap on, fade off (random patterns)  | slow – fast    | 80..111  |
|                                   | Fade on, fade off (random patterns)  | slow – fast    | 112..143 |
|                                   | Strobe random                        | 5s - 0.1s      | 144..199 |
|                                   | Strobe effect slow - fast            | 1 Hz - 10 Hz   | 200..239 |
|                                   | Shutter open                         |                | 240..255 |
| <b>11 Intensity</b>               | Intensity                            | 0 - 100%       | 0..255   |

|                                      |   |                              |                |
|--------------------------------------|---|------------------------------|----------------|
|                                      |   |                              |                |
| <b>12 CTO</b>                        | No CTO<br>Continuous color temperature correction | Applicable<br>for ALL colors | 0..7<br>8..255 |
| <b>13 Special <sup>5)</sup></b>      | See special features below <sup>5)</sup>          | -                            | -              |
| <b>14 Crossfade</b>                  | 0..2 seconds transition time                      |                              | 0..255         |
| <b>15 Set 1 Pattern<br/>Movement</b> |   |                              | 0..255         |
| <b>16 Zoom</b>                       | Wide (flood) - narrow (spot)                      | 50° - 7°                     | 0..255         |
| <b>17 Set 1 Pattern<br/>Select</b>   |   |                              | 0..255         |
| <b>18 Pixel Select<br/>1 - 8</b>     |   |                              | 0..255         |
| <b>19 Pixel Select<br/>9 - 16</b>    |   |                              | 0..255         |
| <b>20 Pixel Select<br/>17 - 20</b>   |   |                              | 0..255         |



|   |  |              |               |
|---|--|--------------|---------------|
|   | Strobe random                            | 5s - 0.1s    | 144..199      |
|   | Strobe effect slow - fast                | 1 Hz - 10 Hz | 200..239      |
|   | Shutter open                             |              | 240..255      |
| <b>12 Intensity - High</b>              | Intensity - coarse                       | 0 - 100%     | 0..255        |
| <b>13 Intensity - Low</b>               | Intensity - fine                         | -            | 0..255        |
| <b>14 Special <sup>5)</sup></b>         | See special features below <sup>5)</sup> | -            | -             |
| <b>15 Set 2 Color <sup>4)</sup></b>     | Values see Channel 5                     | -            | -             |
| <b>16 Set 2 Red <sup>4)</sup></b>       | Color mixing system - Red                | 0 - 100%     | 0..255        |
| <b>17 Set 2 Green <sup>4)</sup></b>     | Color mixing system - Green              | 0 - 100%     | 0..255        |
| <b>18 Set 2 Blue <sup>4)</sup></b>      | Color mixing system - Blue               | 0 - 100%     | 0..255        |
| <b>19 Set 2 White <sup>4)</sup></b>     | Color mixing system - White              | 0 - 100%     | 0..255        |
| <b>20 Set 2 Intensity <sup>4)</sup></b> | Intensity                                | 0 - 100%     | 0..255        |
| <b>21 Set 3 Color <sup>4)</sup></b>     | Values see Channel 5                     | -            | -             |
| <b>22 Set 3 Red <sup>4)</sup></b>       | Color mixing system - Red                | 0 - 100%     | 0..255        |
| <b>23 Set 3 Green <sup>4)</sup></b>     | Color mixing system - Green              | 0 - 100%     | 0..255        |
| <b>24 Set 3 Blue <sup>4)</sup></b>      | Color mixing system - Blue               | 0 - 100%     | 0..255        |
| <b>25 Set 3 White <sup>4)</sup></b>     | Color mixing system - White              | 0 - 100%     | 0..255        |
| <b>26 Set 3 Intensity <sup>4)</sup></b> | Intensity                                | 0 - 100%     | 0..255        |
| <b>27 Crossfade</b>                     | 0..2 seconds transition time             |              | 0..255        |
| <b>28 Star Effect</b>                   | Random internal shutter effect           | slow – fast  | 0..255        |
| <b>29 Set 1 Pattern Select</b>          |  |              | 0..255        |
| <b>30 Set 1 Pattern Movement</b>        |  |              | 0..255        |
| <b>31 Set 2 Pattern Select</b>          |  |              | 0..255        |
| <b>32 Set 2 Pattern Movement</b>        |  |              | 0..255        |
| <b>33 Pixel Select<br/>1 - 8</b>        |  |              | 0..255        |
| <b>34 Pixel Select<br/>9 - 16</b>       |  |              | <b>0..255</b> |
| <b>35 Pixel Select<br/>17 - 20</b>      |  |              | 0..255        |

#### 4 Dual Pixel Mode (dpix) 48 DMX Channels:

| Channel                        | Function                                 | Time and Value            | DMX      |
|--------------------------------|--|---------------------------|----------|
| <b>1 Tilt - High</b>           | Tilt coarse                              | 0° - 210°                 | 0..255   |
| <b>2 Tilt - Low</b>            | Tilt fine                                |                           | 0..255   |
| <b>3 Shutter</b>               | Shutter closed                           |                           | 0..15    |
|                                | Shutter pulse random                     | slow – fast               | 16..47   |
|                                | Fade on, snap off (random patterns)      | slow – fast               | 48..79   |
|                                | Snap on, fade off (random patterns)      | slow – fast               | 80..111  |
|                                | Fade on, fade off (random patterns)      | slow – fast               | 112..143 |
|                                | Strobe random                            | 5s - 0.1s                 | 144..199 |
|                                | Strobe effect slow - fast                | 1 Hz - 10 Hz              | 200..239 |
|                                | Shutter open                             |                           | 240..255 |
| <b>4 Intensity</b>             | Intensity                                | 0 - 100%                  | 0..255   |
| <b>5 CTO</b>                   | No CTO                                   |                           | 0..7     |
|                                | Continuous color temperature correction  | Applicable for ALL colors | 8..255   |
| <b>6 Special <sup>5)</sup></b> | See special features below <sup>5)</sup> | -                         | -        |
| <b>7 Crossfade</b>             | 0..2 seconds transition time             |                           | 0..255   |
| <b>8 Zoom</b>                  | Wide (flood) - narrow (spot)             | 50° - 7°                  | 0..255   |
| <b>9 Set 1&amp;2 Red</b>       | Color mixing system - Red                | 0 - 100%                  | 0..255   |
| <b>10 Set 1&amp;2 Green</b>    | Color mixing system - Green              | 0 - 100%                  | 0..255   |
| <b>11 Set 1&amp;2 Blue</b>     | Color mixing system - Blue               | 0 - 100%                  | 0..255   |
| <b>12 Set 1&amp;2 White</b>    | Color mixing system - White              | 0 - 100%                  | 0..255   |
| <b>13 Set 3&amp;4 Red</b>      | Color mixing system - Red                | 0 - 100%                  | 0..255   |
| <b>14 Set 3&amp;4 Green</b>    | Color mixing system - Green              | 0 - 100%                  | 0..255   |
| <b>15 Set 3&amp;4 Blue</b>     | Color mixing system - Blue               | 0 - 100%                  | 0..255   |
| <b>16 Set 3&amp;4 White</b>    | Color mixing system - White              | 0 - 100%                  | 0..255   |
| <b>17 Set 5&amp;6 Red</b>      | Color mixing system - Red                | 0 - 100%                  | 0..255   |
| <b>18 Set 5&amp;6 Green</b>    | Color mixing system - Green              | 0 - 100%                  | 0..255   |
| <b>19 Set 5&amp;6 Blue</b>     | Color mixing system - Blue               | 0 - 100%                  | 0..255   |
| <b>20 Set 5&amp;6 White</b>    | Color mixing system - White              | 0 - 100%                  | 0..255   |
| <b>21 Set 7&amp;8 Red</b>      | Color mixing system - Red                | 0 - 100%                  | 0..255   |
| <b>22 Set 7&amp;8 Green</b>    | Color mixing system - Green              | 0 - 100%                  | 0..255   |
| <b>23 Set 7&amp;8 Blue</b>     | Color mixing system - Blue               | 0 - 100%                  | 0..255   |
| <b>24 Set 7&amp;8 White</b>    | Color mixing system - White              | 0 - 100%                  | 0..255   |
| <b>25 Set 9&amp;10 Red</b>     | Color mixing system - Red                | 0 - 100%                  | 0..255   |
| <b>26 Set 9&amp;10 Green</b>   | Color mixing system - Green              | 0 - 100%                  | 0..255   |

|                               |                             |          |        |
|-------------------------------|-----------------------------|----------|--------|
| <b>27 Set 9&amp;10 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>28 Set 9&amp;10 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>29 Set 11&amp;12 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>30 Set 11&amp;12 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>31 Set 11&amp;12 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>32 Set 11&amp;12 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>33 Set 13&amp;14 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>34 Set 13&amp;14 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>35 Set 13&amp;14 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>36 Set 13&amp;14 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>37 Set 15&amp;16 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>38 Set 15&amp;16 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>39 Set 15&amp;16 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>40 Set 15&amp;16 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>41 Set 17&amp;18 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>42 Set 17&amp;18 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>43 Set 17&amp;18 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>44 Set 17&amp;18 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>45 Set 19&amp;20 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>46 Set 19&amp;20 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>47 Set 19&amp;20 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>48 Set 19&amp;20 White</b> | Color mixing system - White | 0 - 100% | 0..255 |

## 5 Dual Pixel High Resolution Mode (DPixH) 49 DMX Channels:

| Channel                        | Function                                 | Time and Value               | DMX      |
|--------------------------------|--|------------------------------|----------|
| <b>1 Tilt - High</b>           | Tilt coarse                              | 0° - 210°                    | 0..255   |
| <b>2 Tilt - Low</b>            | Tilt fine                                |                              | 0..255   |
| <b>3 Shutter</b>               | Shutter closed                           |                              | 0..15    |
|                                | Shutter pulse random                     | slow – fast                  | 16..47   |
|                                | Fade on, snap off (random patterns)      | slow – fast                  | 48..79   |
|                                | Snap on, fade off (random patterns)      | slow – fast                  | 80..111  |
|                                | Fade on, fade off (random patterns)      | slow – fast                  | 112..143 |
|                                | Strobe random                            | 5s - 0.1s                    | 144..199 |
|                                | Strobe effect slow - fast                | 1 Hz - 10 Hz                 | 200..239 |
|                                | Shutter open                             |                              | 240..255 |
| <b>4 Intensity - High</b>      | Intensity - coarse                       | 0 - 100%                     | 0..255   |
| <b>5 Intensity - Low</b>       | Intensity - fine                         | -                            | 0..255   |
| <b>6 CTO</b>                   | No CTO                                   |                              | 0..7     |
|                                | Continuous color temperature correction  | Applicable<br>for ALL colors | 8..255   |
| <b>7 Special <sup>5)</sup></b> | See special features below <sup>5)</sup> | -                            | -        |
| <b>8 Crossfade</b>             | 0..2 seconds transition time             |                              | 0..255   |
| <b>9 Zoom</b>                  | Wide (flood) - narrow (spot)             | 50° - 7°                     | 0..255   |
| <b>10 Set 1&amp;2 Red</b>      | Color mixing system - Red                | 0 - 100%                     | 0..255   |
| <b>11 Set 1&amp;2 Green</b>    | Color mixing system - Green              | 0 - 100%                     | 0..255   |
| <b>12 Set 1&amp;2 Blue</b>     | Color mixing system - Blue               | 0 - 100%                     | 0..255   |
| <b>13 Set 1&amp;2 White</b>    | Color mixing system - White              | 0 - 100%                     | 0..255   |
| <b>14 Set 3&amp;4 Red</b>      | Color mixing system - Red                | 0 - 100%                     | 0..255   |
| <b>15 Set 3&amp;4 Green</b>    | Color mixing system - Green              | 0 - 100%                     | 0..255   |
| <b>16 Set 3&amp;4 Blue</b>     | Color mixing system - Blue               | 0 - 100%                     | 0..255   |
| <b>17 Set 3&amp;4 White</b>    | Color mixing system - White              | 0 - 100%                     | 0..255   |
| <b>18 Set 5&amp;6 Red</b>      | Color mixing system - Red                | 0 - 100%                     | 0..255   |
| <b>19 Set 5&amp;6 Green</b>    | Color mixing system - Green              | 0 - 100%                     | 0..255   |
| <b>20 Set 5&amp;6 Blue</b>     | Color mixing system - Blue               | 0 - 100%                     | 0..255   |
| <b>21 Set 5&amp;6 White</b>    | Color mixing system - White              | 0 - 100%                     | 0..255   |
| <b>22 Set 7&amp;8 Red</b>      | Color mixing system - Red                | 0 - 100%                     | 0..255   |
| <b>23 Set 7&amp;8 Green</b>    | Color mixing system - Green              | 0 - 100%                     | 0..255   |
| <b>24 Set 7&amp;8 Blue</b>     | Color mixing system - Blue               | 0 - 100%                     | 0..255   |
| <b>25 Set 7&amp;8 White</b>    | Color mixing system - White              | 0 - 100%                     | 0..255   |
| <b>26 Set 9&amp;10 Red</b>     | Color mixing system - Red                | 0 - 100%                     | 0..255   |

|                               |                             |          |        |
|-------------------------------|-----------------------------|----------|--------|
| <b>27 Set 9&amp;10 Green</b>  | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>28 Set 9&amp;10 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>29 Set 9&amp;10 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>30 Set 11&amp;12 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>31 Set 11&amp;12 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>32 Set 11&amp;12 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>33 Set 11&amp;12 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>34 Set 13&amp;14 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>35 Set 13&amp;14 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>36 Set 13&amp;14 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>37 Set 13&amp;14 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>38 Set 15&amp;16 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>39 Set 15&amp;16 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>40 Set 15&amp;16 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>41 Set 15&amp;16 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>42 Set 17&amp;18 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>43 Set 17&amp;18 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>44 Set 17&amp;18 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>45 Set 17&amp;18 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>46 Set 19&amp;20 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>47 Set 19&amp;20 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>48 Set 19&amp;20 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>49 Set 19&amp;20 White</b> | Color mixing system - White | 0 - 100% | 0..255 |

## 6 Single Pixel Mode (spix) 88 DMX Channels:

| Channel                        | Function                                 | Time and Value            | DMX      |
|--------------------------------|--|---------------------------|----------|
| <b>1 Tilt - High</b>           | Tilt coarse                              | 0° - 210°                 | 0..255   |
| <b>2 Tilt - Low</b>            | Tilt fine                                |                           | 0..255   |
| <b>3 Shutter</b>               | Shutter closed                           |                           | 0..15    |
|                                | Shutter pulse random                     | slow – fast               | 16..47   |
|                                | Fade on, snap off (random patterns)      | slow – fast               | 48..79   |
|                                | Snap on, fade off (random patterns)      | slow – fast               | 80..111  |
|                                | Fade on, fade off (random patterns)      | slow – fast               | 112..143 |
|                                | Strobe random                            | 5s - 0.1s                 | 144..199 |
|                                | Strobe effect slow - fast                | 1 Hz - 10 Hz              | 200..239 |
|                                | Shutter open                             |                           | 240..255 |
| <b>4 Intensity</b>             | Intensity                                | 0 - 100%                  | 0..255   |
| <b>5 CTO</b>                   | No CTO                                   |                           | 0..7     |
|                                | Continuous color temperature correction  | Applicable for ALL colors | 8..255   |
| <b>6 Special <sup>5)</sup></b> | See special features below <sup>5)</sup> | -                         | -        |
| <b>7 Crossfade</b>             | 0..2 seconds transition time             |                           | 0..255   |
| <b>8 Zoom</b>                  | Wide (flood) - narrow (spot)             | 50° - 7°                  | 0..255   |
| <b>9 Set 1 Red</b>             | Color mixing system - Red                | 0 - 100%                  | 0..255   |
| <b>10 Set 1 Green</b>          | Color mixing system - Green              | 0 - 100%                  | 0..255   |
| <b>11 Set 1 Blue</b>           | Color mixing system - Blue               | 0 - 100%                  | 0..255   |
| <b>12 Set 1 White</b>          | Color mixing system - White              | 0 - 100%                  | 0..255   |
| <b>13 Set 2 Red</b>            | Color mixing system - Red                | 0 - 100%                  | 0..255   |
| <b>14 Set 2 Green</b>          | Color mixing system - Green              | 0 - 100%                  | 0..255   |
| <b>15 Set 2 Blue</b>           | Color mixing system - Blue               | 0 - 100%                  | 0..255   |
| <b>16 Set 2 White</b>          | Color mixing system - White              | 0 - 100%                  | 0..255   |
| <b>17 Set 3 Red</b>            | Color mixing system - Red                | 0 - 100%                  | 0..255   |
| <b>18 Set 3 Green</b>          | Color mixing system - Green              | 0 - 100%                  | 0..255   |
| <b>19 Set 3 Blue</b>           | Color mixing system - Blue               | 0 - 100%                  | 0..255   |
| <b>20 Set 3 White</b>          | Color mixing system - White              | 0 - 100%                  | 0..255   |
| <b>21 Set 4 Red</b>            | Color mixing system - Red                | 0 - 100%                  | 0..255   |
| <b>22 Set 4 Green</b>          | Color mixing system - Green              | 0 - 100%                  | 0..255   |
| <b>23 Set 4 Blue</b>           | Color mixing system - Blue               | 0 - 100%                  | 0..255   |
| <b>24 Set 4 White</b>          | Color mixing system - White              | 0 - 100%                  | 0..255   |
| <b>25 Set 5 Red</b>            | Color mixing system - Red                | 0 - 100%                  | 0..255   |
| <b>26 Set 5 Green</b>          | Color mixing system - Green              | 0 - 100%                  | 0..255   |

|                        |                             |          |        |
|------------------------|-----------------------------|----------|--------|
| <b>27 Set 5 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>28 Set 5 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>29 Set 6 Red</b>    | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>30 Set 6 Green</b>  | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>31 Set 6 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>32 Set 6 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>33 Set 7 Red</b>    | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>34 Set 7 Green</b>  | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>35 Set 7 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>36 Set 7 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>37 Set 8 Red</b>    | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>38 Set 8 Green</b>  | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>39 Set 8 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>40 Set 8 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>41 Set 9 Red</b>    | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>42 Set 9 Green</b>  | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>43 Set 9 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>44 Set 9 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>45 Set 10 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>46 Set 10 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>47 Set 10 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>48 Set 10 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>49 Set 11 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>50 Set 11 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>51 Set 11 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>52 Set 11 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>53 Set 12 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>54 Set 12 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>55 Set 12 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>56 Set 12 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>57 Set 13 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>58 Set 13 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>59 Set 13 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>60 Set 13 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>61 Set 14 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>62 Set 14 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>63 Set 14 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |

|                        |                             |          |        |
|------------------------|-----------------------------|----------|--------|
| <b>64 Set 14 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>65 Set 15 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>66 Set 15 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>67 Set 15 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>68 Set 15 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>69 Set 16 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>70 Set 16 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>71 Set 16 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>72 Set 16 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>73 Set 17 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>74 Set 17 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>75 Set 17 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>76 Set 17 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>77 Set 18 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>78 Set 18 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>79 Set 18 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>80 Set 18 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>81 Set 19 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>82 Set 19 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>83 Set 19 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>84 Set 19 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>85 Set 20 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>86 Set 20 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>87 Set 20 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>88 Set 20 White</b> | Color mixing system - White | 0 - 100% | 0..255 |

## 7 Single Pixel High Resolution Mode (SPixH) 89 DMX Channels:

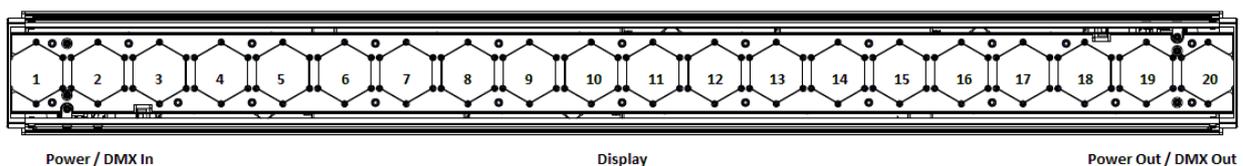
| Channel                        | Function                                 | Time and Value               | DMX      |
|--------------------------------|--|------------------------------|----------|
| <b>1 Tilt - High</b>           | Tilt coarse                              | 0° - 210°                    | 0..255   |
| <b>2 Tilt - Low</b>            | Tilt fine                                |                              | 0..255   |
| <b>3 Shutter</b>               | Shutter closed                           |                              | 0..15    |
|                                | Shutter pulse random                     | slow – fast                  | 16..47   |
|                                | Fade on, snap off (random patterns)      | slow – fast                  | 48..79   |
|                                | Snap on, fade off (random patterns)      | slow – fast                  | 80..111  |
|                                | Fade on, fade off (random patterns)      | slow – fast                  | 112..143 |
|                                | Strobe random                            | 5s - 0.1s                    | 144..199 |
|                                | Strobe effect slow - fast                | 1 Hz - 10 Hz                 | 200..239 |
|                                | Shutter open                             |                              | 240..255 |
| <b>4 Intensity - High</b>      | Intensity - coarse                       | 0 - 100%                     | 0..255   |
| <b>5 Intensity - Low</b>       | Intensity - fine                         | -                            | 0..255   |
| <b>6 CTO</b>                   | No CTO                                   |                              | 0..7     |
|                                | Continuous color temperature correction  | Applicable<br>for ALL colors | 8..255   |
| <b>7 Special <sup>5)</sup></b> | See special features below <sup>5)</sup> | -                            | -        |
| <b>8 Crossfade</b>             | 0..2 seconds transition time             |                              | 0..255   |
| <b>9 Zoom</b>                  | Wide (flood) - narrow (spot)             | 50° - 7°                     | 0..255   |
| <b>10 Set 1 Red</b>            | Color mixing system - Red                | 0 - 100%                     | 0..255   |
| <b>11 Set 1 Green</b>          | Color mixing system - Green              | 0 - 100%                     | 0..255   |
| <b>12 Set 1 Blue</b>           | Color mixing system - Blue               | 0 - 100%                     | 0..255   |
| <b>13 Set 1 White</b>          | Color mixing system - White              | 0 - 100%                     | 0..255   |
| <b>14 Set 2 Red</b>            | Color mixing system - Red                | 0 - 100%                     | 0..255   |
| <b>15 Set 2 Green</b>          | Color mixing system - Green              | 0 - 100%                     | 0..255   |
| <b>16 Set 2 Blue</b>           | Color mixing system - Blue               | 0 - 100%                     | 0..255   |
| <b>17 Set 2 White</b>          | Color mixing system - White              | 0 - 100%                     | 0..255   |
| <b>18 Set 3 Red</b>            | Color mixing system - Red                | 0 - 100%                     | 0..255   |
| <b>19 Set 3 Green</b>          | Color mixing system - Green              | 0 - 100%                     | 0..255   |
| <b>20 Set 3 Blue</b>           | Color mixing system - Blue               | 0 - 100%                     | 0..255   |
| <b>21 Set 3 White</b>          | Color mixing system - White              | 0 - 100%                     | 0..255   |
| <b>22 Set 4 Red</b>            | Color mixing system - Red                | 0 - 100%                     | 0..255   |
| <b>23 Set 4 Green</b>          | Color mixing system - Green              | 0 - 100%                     | 0..255   |
| <b>24 Set 4 Blue</b>           | Color mixing system - Blue               | 0 - 100%                     | 0..255   |
| <b>25 Set 4 White</b>          | Color mixing system - White              | 0 - 100%                     | 0..255   |
| <b>26 Set 5 Red</b>            | Color mixing system - Red                | 0 - 100%                     | 0..255   |

|                        |                             |          |        |
|------------------------|-----------------------------|----------|--------|
| <b>27 Set 5 Green</b>  | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>28 Set 5 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>29 Set 5 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>30 Set 6 Red</b>    | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>31 Set 6 Green</b>  | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>32 Set 6 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>33 Set 6 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>34 Set 7 Red</b>    | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>35 Set 7 Green</b>  | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>36 Set 7 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>37 Set 7 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>38 Set 8 Red</b>    | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>39 Set 8 Green</b>  | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>40 Set 8 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>41 Set 8 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>42 Set 9 Red</b>    | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>43 Set 9 Green</b>  | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>44 Set 9 Blue</b>   | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>45 Set 9 White</b>  | Color mixing system - White | 0 - 100% | 0..255 |
| <b>46 Set 10 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>47 Set 10 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>48 Set 10 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>49 Set 10 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>50 Set 11 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>51 Set 11 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>52 Set 11 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>53 Set 11 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>54 Set 12 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>55 Set 12 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>56 Set 12 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>57 Set 12 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>58 Set 13 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>59 Set 13 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |
| <b>60 Set 13 Blue</b>  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| <b>61 Set 13 White</b> | Color mixing system - White | 0 - 100% | 0..255 |
| <b>62 Set 14 Red</b>   | Color mixing system - Red   | 0 - 100% | 0..255 |
| <b>63 Set 14 Green</b> | Color mixing system - Green | 0 - 100% | 0..255 |

|                 |                             |          |        |
|-----------------|-----------------------------|----------|--------|
| 64 Set 14 Blue  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| 65 Set 14 White | Color mixing system - White | 0 - 100% | 0..255 |
| 66 Set 15 Red   | Color mixing system - Red   | 0 - 100% | 0..255 |
| 67 Set 15 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 68 Set 15 Blue  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| 69 Set 15 White | Color mixing system - White | 0 - 100% | 0..255 |
| 70 Set 16 Red   | Color mixing system - Red   | 0 - 100% | 0..255 |
| 71 Set 16 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 72 Set 16 Blue  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| 73 Set 16 White | Color mixing system - White | 0 - 100% | 0..255 |
| 74 Set 17 Red   | Color mixing system - Red   | 0 - 100% | 0..255 |
| 75 Set 17 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 76 Set 17 Blue  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| 77 Set 17 White | Color mixing system - White | 0 - 100% | 0..255 |
| 78 Set 18 Red   | Color mixing system - Red   | 0 - 100% | 0..255 |
| 79 Set 18 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 80 Set 18 Blue  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| 81 Set 18 White | Color mixing system - White | 0 - 100% | 0..255 |
| 82 Set 19 Red   | Color mixing system - Red   | 0 - 100% | 0..255 |
| 83 Set 19 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 84 Set 19 Blue  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| 85 Set 19 White | Color mixing system - White | 0 - 100% | 0..255 |
| 86 Set 20 Red   | Color mixing system - Red   | 0 - 100% | 0..255 |
| 87 Set 20 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 88 Set 20 Blue  | Color mixing system - Blue  | 0 - 100% | 0..255 |
| 89 Set 20 White | Color mixing system - White | 0 - 100% | 0..255 |

The Pixel are numbered left to right 1 – 20 as shown below.

Tilt DMX Value = 0 / “Display” to the front / “Power & DMX In” to the left.



<sup>1)</sup> The predefined colors can be used as start-colors for the Rainbow effect. Please select first a desired start-color before you activate the rainbow effect. All **IMPRESSION X4 Bar 20** will then start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION X4 Bar 20** can have different start-colors but will still execute the rainbow effect synchronously. If you choose a color different from the ones marked with <sup>1)</sup> in the tables above the rainbow start-color will be red.

2) Rainbow-effect Stop will pause this function. After resuming the rainbow-effect will be continued from the current color.

3) The Rainbow-effect will run synchronously only if started from one of the predefined colors (see also 1) before).

4) Set 1 is the main layer while Set 2 and Set 3 are background layers.

Thus Set 2 is only visible on the unlit pixel of layer 1 if a pattern is applied and Set 3 is only visible on the unlit pixel of layer 1 and 2 if there are patterns applied.

5) Special Channel Function Overview:

| DMX value   |     | Active                     | Function                 | Save to eeprom | Remarks   |
|---|-----|----------------------------|--------------------------|----------------|---|
| from  | to  |                            |                          |                |   |
| 0   | 3   | not in                     | no mirror                | no             |   |
| 4   | 7   | SPix/DPix/SPixH/DPixH mode | mirror color priority    | no             |   |
| 8   | 11  |                            | mirror color mixing      | no             |   |
| <b>The following switch boxes only work if special channel has been enabled with DMX value zero (0) before:</b> |     |                            |                          |                |   |
| 120   | 123 | 3 seconds                  | Tilt slow mode off       | yes            | Only if shutter=48..49 and intensity=50..59 (12800..15104 at high resolution).<br><br>Requires Tilt Firmware V.20 or later. <sup>6)</sup> |
| 124   | 127 | 3 seconds                  | Tilt slow mode on        | yes            |   |
| 128   | 131 | 3 seconds                  | Tilt current off         | yes            |   |
| 132   | 135 | 3 seconds                  | Tilt current on          | yes            |   |
| 136   | 139 | 3 seconds                  | Tilt reset off           | yes            |   |
| 140   | 143 | 3 seconds                  | Tilt reset on            | yes            |   |
| 144   | 147 | 3 seconds                  | Display Flip off         | yes            |   |
| 148   | 151 | 3 seconds                  | Display Flip on          | yes            |   |
| 152   | 155 | 3 seconds                  | DMX Mode DPixH (HiRes)   | yes            |   |
| 156   | 159 | 3 seconds                  | DMX Mode SPixH (HiRes)   | yes            |   |
| 160   | 163 | 3 seconds                  | DMX Mode High Resolution | yes            | Only if shutter=48..49 and intensity=50..59 (12800..15104 at high resolution)   |
| 164   | 167 | 3 seconds                  | DMX Mode Normal          | yes            |   |
| 168   | 171 | 3 seconds                  | DMX Mode Compressed      | yes            |   |
| 172   | 175 | 3 seconds                  | DMX Mode DPix            | yes            |   |
| 176   | 179 | 3 seconds                  | DMX Mode SPix            | yes            |   |
| 180   | 183 | 3 seconds                  | Dimmer Curve ESoft       | yes            |   |
| 184   | 187 | 3 seconds                  | Dimmer Curve Soft        | yes            |   |
| 188   | 191 | 3 seconds                  | Dimmer Curve Lin         | yes            |   |
| 192   | 195 | 3 seconds                  | X4 Compatibility off     | yes            |   |
| 196   | 199 | 3 seconds                  | X4 Compatibility on      | yes            |   |
| 200   | 203 | 3 seconds                  | Silent-Mode off          | yes            |   |
| 204   | 207 | 3 seconds                  | Silent-Mode on           | yes            |   |
| 208   | 211 | 3 seconds                  | Position Feedback off    | yes            |   |
| 212   | 215 | 3 seconds                  | Position Feedback on     | yes            |   |
| 216   | 219 | 3 seconds                  | DMX hold off             | yes            |   |
| 220   | 223 | 3 seconds                  | DMX hold on              | yes            |   |
| 224   | 227 | 3 seconds                  | Tilt inverse off         | yes            |   |
| 228   | 231 | 3 seconds                  | Tilt inverse on          | yes            |   |
| 232   | 235 | 3 seconds                  | Pixel inverse off        | yes            |   |
| 236   | 239 | 3 seconds                  | Pixel inverse on         | yes            |   |
| 240   | 243 | 3 seconds                  | Zoom inverse off         | yes            | Only if shutter=48..49 and intensity=50..59 (12800..15104 at high resolution)   |
| 244   | 247 | 3 seconds                  | Zoom inverse on          | yes            |   |
| 248   | 251 | 3 seconds                  | Fixture default          | yes            |   |
| 252   | 255 | 3 seconds                  | Fixture reset            | no             |   |

<sup>6)</sup> For further information please contact your local GLP dealer or GLP support center

## 8 Technical Specifications:

|  |  |
|--|--|
| <b>Power supply</b>  |  |
| <b>Power consumption</b>   | 450 VA (Watt)  |
| <b>Power Input</b>   | Auto sensing 100-240 V AC, 50-60 Hz                    |
| <b>Fuse protection</b>   | Micro-fuse 5x20 mm, T5A                                |
| <b>Operational Parameters</b>  |  |
| <b>Max. Ambient Temperature</b>  | 5° - 45°C (integrated overheating switch)<br>40°-113°F |
| <b>Mounting Position</b>   | Any (see relevant chapter in the manual)               |
| <b>Lighting System - Additive Color mixing</b>   |  |
| <b>LED Type</b>  | 20 x Osram Ostar RGBW multi-chip                       |
| <b>Lifetime</b>  | 50,000 h   |
| Wavelength optimized for maximum presentable color space   |  |
| <b>Optical System</b>  |  |
| Full RGBW / High efficient Collimator cluster<br>Exchangeable diffuser filters available (optional).   |  |
| <b>Shutter / Dimmer (8/16 Bit)</b>   |  |
| Strobe- Effect with variable speed between 1-10 flashes per second, Random- & Pulse-Effects<br>Continuous Dimmer 0 - 100%                        |  |
| <b>Zoom</b>  |  |
| 7 to 50 degree continuous high speed zoom  |  |
| <b>Optical Patterns</b>  |  |
| Several pre-defined beam patterns with direct access and manipulation.<br>Free control of every pixel, color and intensity                       |  |
| <b>DMX Control</b>   |  |
| Standard USITT DMX-512, 5 pin XLR: [+]=Pin 3 / [-]=Pin 2 / [Ground]=Pin 1 / Pin 4&5 N.C.<br>The DMX- Addressing starts at the DMX channel [001]. |  |
| <b>Tilt (8/16 Bit)</b>   |  |
| <b>Tilt- movement</b>  | 210° in min. 1.5 seconds (Position Feedback)           |
| <b>Weights and Measures</b>  |  |
| <b>Length</b>  | 1000 mm / 39.4''                                       |
| <b>Width</b>   | 100 mm / 3.9''   |
| <b>Height</b>  | 240 mm / 9.4''   |
| <b>Weight (net)</b>  | 14.5 kg / 32 lbs                                       |
| <b>Weight with 2 brackets</b>  | 16 kg / 35 lbs   |

## 9 Dimensions

