

# DMX Channel Index



## RGB Static



impression &

from software version 1.00/30  
(instruction version 1.00)

—GLP—

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PRODUCTS**

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## 4 DMX Channel Selection (DMX Protocol)

### Normal-Mode 8 DMX channels

| Channel                           | Function  | Time and Value                                | DMX             | HEX           | %              |          |
|-----------------------------------|---|---|-----------------|---------------|----------------|----------|
| <b>1) Color (fixed)</b>           | Colors adjustable via RGB                                     |   | 0..7            | 00..07        | 0..2,5         |          |
|                                   | Color 01 - Red <sup>1)</sup>                                  |   | 8..15           | 08..0F        | 3..5,5         |          |
|                                   | Color 02 - Amber <sup>1)</sup>                                |   | 16..23          | 10..17        | 6..8,5         |          |
|                                   | Color 03 - Warm Yellow <sup>1)</sup>                          |   | 24..31          | 18..1F        | 9..12,5        |          |
|                                   | Color 04 - Yellow <sup>1)</sup>                               |   | 32..39          | 20..27        | 13..15,5       |          |
|                                   | Color 05 - Green <sup>1)</sup>                                |   | 40..47          | 28..2F        | 16..18,5       |          |
|                                   | Color 06 - Turquoise <sup>1)</sup>                            |   | 48..55          | 30..37        | 19..21,5       |          |
|                                   | Color 07 - Cyan <sup>1)</sup>                                 |   | 56..63          | 38..3F        | 22..24,5       |          |
|                                   | Color 08 - Blue <sup>1)</sup>                                 |   | 64..71          | 40..47        | 25..27,5       |          |
|                                   | Color 09 - Lavender <sup>1)</sup>                             |   | 72..79          | 48..4F        | 28..30,5       |          |
|                                   | Color 10 - Mauve <sup>1)</sup>                                |   | 80..87          | 50..57        | 31..34,5       |          |
|                                   | Color 11 - Magenta <sup>1)</sup>                              |   | 88..95          | 58..5F        | 35..37,5       |          |
|                                   | Color 12 - Pink <sup>1)</sup>                                 |   | 96..103         | 60..67        | 38..40,5       |          |
|                                   | White - CTO   | Color temperature 3200K                       |                 | 104..111      | 68..6F         | 41..43,5 |
|                                   | White   | Color temperature 5600K                       |                 | 112..119      | 70..77         | 44..46,5 |
|                                   | White - CTB   | Color temperature 7200K                       |                 | 120..127      | 78..7F         | 47..49,5 |
| Rainbow Effect Stop <sup>2)</sup> |   |   | 128             | 80            | 50             |          |
| Rainbow Effect <sup>3)</sup>      | slow - fast   |   | 129..223        | 81..DF        | 51..88         |          |
| Rainbow Effect, random colors     | slow - fast   |   | 224..255        | E=..FF        | 89..100        |          |
| <b>2) Red</b>                     | Color mixing system - Red                                     | 0 - 100%                                      | 0..255          | 00..FF        | 0..100         |          |
| <b>3) Green</b>                   | Color mixing system - Green                                   | 0 - 100%                                      | 0..255          | 00..FF        | 0..100         |          |
| <b>4) Blue</b>                    | Color mixing system - Blue                                    | 0 - 100%                                      | 0..255          | 00..FF        | 0..100         |          |
| <b>5) Shutter</b>                 | Shutter closed  |   | 0..15           | 00..0F        | 0..5,5         |          |
|                                   | Random Pulse effect   | slow - fast                                   | 16..47          | 10..2F        | 6..18,5        |          |
|                                   | Up-dimming then Shutter closing (random patterns)             | slow - fast                                   | 48..79          | 30..4F        | 19..31         |          |
|                                   | Shutter open then down-dimming (random patterns)              | slow - fast                                   | 80..111         | 50..6F        | 32..43         |          |
|                                   | Up-dimming then down-dimming (random patterns)                | slow - fast                                   | 112..143        | 70..8F        | 44..56         |          |
|                                   | Strobe effect pause   | 5s to 1s                                      | 144..199        | A0..C7        | 57..77         |          |
|                                   | Strobe effect, slow - fast                                    | 1 Hz .. 10 Hz                                 | 200..239        | C8..EF        | 78..94         |          |
|                                   | Shutter open  |   | 240..255        | F0..FF        | 95..100        |          |
| <b>6) Dimmer</b>                  | Dimmer  | 0% - 100%                                     | 0..255          | 0..FF         | 0..100         |          |
| <b>7) Color temperature</b>       | No color temperature correction                               |   | 0..6            | 0..06         | 0..2           |          |
|                                   | Continuous color temperature correction between 3200k - 7200k | Applicable only for White color <sup>5)</sup> | 7..255          | 07..FF        | 3..100         |          |
| <b>8) Special</b>                 | Max. Power-Mode <sup>4)</sup>                                 | Max. light output without white balance       | 0..15           | 0..0F         | 0..5,5         |          |
|                                   | White-Mode <sup>4)</sup>                                      | White balance used                            | 16..31          | 10..1F        | 6..12,5        |          |
|                                   | Fan min. as long as temp. < 90°C                              |   | 224..229        | E0..E5        | 88..89,5       |          |
|                                   | <b>RESET (Normal Mode)</b>                                    |   | <b>250..255</b> | <b>FA..FF</b> | <b>98..100</b> |          |

**4) Max. Power-Mode vs. White-Mode**

The **IMPRESSION** can regard the white-balance adjustments for each individual color setting. Whether the White-Mode is used with RGB can be selected in the **Normal DMX-Mode** during operation with the Special DMX channel. If the Special channel is set to a value between DMX 0..15, the White-Mode is not used and the RGB goes for the maximum light output. If the Special channel is set to a value between DMX 16..31, the white balance is used for the RGB output.

Since there is no Special DMX channel in the **Compress DMX-Mode**, the possibility exists to likewise select these settings also in the display menu. Is the White-Mode set to "ON", the white-balance is activated. If the White-Mode is set to "OFF", the RGB goes for the maximum light output (Max. Power-Mode).

<sup>5)</sup> The continuous color temperature correction is applicable only for the White color i.e. if this function is selected (DMX  $\geq$  001) the **Impression** will change the color to white immediately and will then be adjustable in the color temperature in a range between 3200K and 7200K. Hence a color correction for others than white is not intended.

**Compress-Mode 6 DMX channels**

| Channel                       | Function   | Time and Value             | DMX      | HEX      | %        |          |
|-------------------------------|--|----------------------------|----------|----------|----------|----------|
| <b>1) Color (fixed)</b>       | Colors adjustable via RGB                            |                            | 0..7     | 00..07   | 0..2,5   |          |
|                               | Color 01 - Red <sup>1)</sup>                         |                            | 8..15    | 08..0F   | 3..5,5   |          |
|                               | Color 02 - Amber <sup>1)</sup>                       |                            | 16..23   | 10..17   | 6..8,5   |          |
|                               | Color 03 - Warm Yellow <sup>1)</sup>                 |                            | 24..31   | 18..1F   | 9..12,5  |          |
|                               | Color 04 - Yellow <sup>1)</sup>                      |                            | 32..39   | 20..27   | 13..15,5 |          |
|                               | Color 05 - Green <sup>1)</sup>                       |                            | 40..47   | 28..2F   | 16..18,5 |          |
|                               | Color 06 - Turquoise <sup>1)</sup>                   |                            | 48..55   | 30..37   | 19..21,5 |          |
|                               | Color 07 - Cyan <sup>1)</sup>                        |                            | 56..63   | 38..3F   | 22..24,5 |          |
|                               | Color 08 - Blue <sup>1)</sup>                        |                            | 64..71   | 40..47   | 25..27,5 |          |
|                               | Color 09 - Lavender <sup>1)</sup>                    |                            | 72..79   | 48..4F   | 28..30,5 |          |
|                               | Color 10 - Mauve <sup>1)</sup>                       |                            | 80..87   | 50..57   | 31..34,5 |          |
|                               | Color 11 - Magenta <sup>1)</sup>                     |                            | 88..95   | 58..5F   | 35..37,5 |          |
|                               | Color 12 - Pink <sup>1)</sup>                        |                            | 96..103  | 60..67   | 38..40,5 |          |
|                               | White - CTO  | Color temperature<br>3200K |          | 104..111 | 68..6F   | 41..43,5 |
|                               | White  | Color temperature<br>5600K |          | 112..119 | 70..77   | 44..46,5 |
|                               | White - CTB  | Color temperature<br>7200K |          | 120..127 | 78..7F   | 47..49,5 |
|                               | Rainbow Effect Stop <sup>2)</sup>                    |                            |          | 128      | 80       | 50       |
| Rainbow Effect <sup>3)</sup>  | slow - fast  |                            | 129..223 | 81..DF   | 51..88   |          |
| Rainbow Effect, random colors | slow - fast  |                            | 224..255 | E0..FF   | 89..100  |          |
| <b>2) Red</b>                 | Color mixing system - Red                            | 0 - 100%                   | 0..255   | 00..FF   | 0..100   |          |
| <b>3) Green</b>               | Color mixing system - Green                          | 0 - 100%                   | 0..255   | 00..FF   | 0..100   |          |
| <b>4) Blue</b>                | Color mixing system - Blue                           | 0 - 100%                   | 0..255   | 00..FF   | 0..100   |          |
| <b>5) Shutter</b>             | Shutter closed                                       |                            | 0..15    | 00..0F   | 0..5,5   |          |
|                               | Random Pulse effect                                  | slow - fast                | 16..47   | 10..2F   | 6..18,5  |          |
|                               | Up-dimming then Shutter closing<br>(random patterns) | slow - fast                | 48..79   | 30..4F   | 19..31,5 |          |
|                               | Shutter open then down-dimming<br>(random patterns)  | slow - fast                | 80..111  | 50..6F   | 32..43   |          |

| Channel          | Function                                       | Time and Value     | DMX        | HEX       | %         |
|------------------|--|--------------------|------------|-----------|-----------|
|                  | Up-dimming then down-dimming (random patterns) | slow - fast        | 112..143   | 70..8F    | 44..56    |
|                  | Strobe effect pause                            | 5s to 1s           | 144..199   | A0..C7    | 57..77    |
|                  | Strobe effect, slow - fast                     | 1 Hz .. 10 Hz      | 200..239   | C8..EF    | 78..94    |
|                  | Shutter open                                   |                    | 240...249  | F0..F9    | 95..97,5  |
|                  | <b>RESET</b>                                   | <b>Min. 3 Sec.</b> | <b>250</b> | <b>FA</b> | <b>98</b> |
|                  | Shutter open                                   |                    | 251..255   | FB..FF    | 99..100   |
| <b>6) Dimmer</b> | Dimmer (0% - 100%)                             |                    | 0..255     | 0..FF     | 0..100    |

### High Resolution (Extended) -Mode 7 DMX Channels

| Channel                 | Function  | Time and Value     | DMX        | HEX       | %         |
|-------------------------|---|--------------------|------------|-----------|-----------|
| <b>1) Red-coarse</b>    | Color mixing system – Red                         | 0 - 100%           | 0..255     | 00..FF    | 0..100    |
| <b>2) Red-fine</b>      | Color mixing system – Red-Low                     |                    | 0..255     | 00..FF    | 0..100    |
| <b>3) Green-coarse</b>  | Color mixing system – Green                       | 0 - 100%           | 0..255     | 00..FF    | 0..100    |
| <b>4) Green-fine</b>    | Color mixing system – Green-Low                   |                    | 0..255     | 00..FF    | 0..100    |
| <b>5) Blue-coarse</b>   | Color mixing system – Blue                        | 0 - 100%           | 0..255     | 00..FF    | 0..100    |
| <b>6) Blue-fine</b>     | Color mixing system – Blue-Low                    |                    | 0..255     | 00..FF    | 0..100    |
| <b>7) Shutter</b>       | Shutter closed                                    |                    | 0..15      | 00..0F    | 0..5,5    |
|                         | Random Pulse effect                               | slow - fast        | 16..47     | 10..2F    | 6..18,5   |
|                         | Up-dimming then Shutter closing (random patterns) | slow - fast        | 48..79     | 30..4F    | 19..31,5  |
|                         | Shutter open then down-dimming (random patterns)  | slow - fast        | 80..111    | 50..6F    | 32..43    |
|                         | Up-dimming then down-dimming (random patterns)    | slow - fast        | 112..143   | 70..8F    | 44..56    |
|                         | Strobe effect pause                               | 5s to 1s           | 144..199   | A0..C7    | 57..77    |
|                         | Strobe effect, slow - fast                        | 1 Hz .. 10 Hz      | 200..239   | C8..EF    | 78..94    |
|                         | Shutter open                                      |                    | 240...249  | F0..F9    | 95..97,5  |
|                         | <b>RESET</b>                                      | <b>Min. 3 Sec.</b> | <b>250</b> | <b>FA</b> | <b>98</b> |
|                         | Shutter open                                      |                    | 251..255   | FB..FF    | 99..100   |
| <b>8) Dimmer-coarse</b> | Dimmer  | 0% - 100%          | 0..255     | 0..FF     | 0..100    |
| <b>9) Dimmer-fine</b>   | Dimmer - Low                                      |                    | 0..255     | 0..FF     | 0..100    |

<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 **Impressions** will afterwards start from that color and will execute the rainbow effect synchronously. Different **Impressions** can certainly have different start-colors but will still execute the rainbow effect synchronously. If you choose a color different from the once marked with <sup>1)</sup> in the tables above the rainbow start-color will be red.

<sup>2)</sup> Rainbow-effect Stop will pause this function. After resuming the rainbow-effect will be continued with the current color.

<sup>3)</sup> The Rainbow-effect will run synchronously only if it will be started going out from one of the predefined colors (see also <sup>1)</sup> before).

#### Locking and unlocking the Control Panel

Please lock and unlock the control panel by pressing the menu keys **MODE & ENTER & UP** at the same time.

#### Additional features during switching-ON the system

a) 1200Hz Mode (Hold down the **UP- button** during power ON)

After switching ON the system the LEDs will be operated with a Pulse Width Modulation (PWM) of 1200Hz.

In addition all standard setting will be loaded (DMX start address [001], Normal Mode with 14 DMX channels).

b) 600Hz Mode (Hold down the **DOWN- button** during power ON)

After switching ON the system the LEDs will be operated with a Pulse Width Modulation (PWM) of 600Hz.

In addition all standard setting will be loaded (DMX start address [001], Normal Mode with 14 DMX channels).

c) Standard Mode (Hold down the **ENTER- button** during power ON)

After switching ON the system the DMX start address will be set to [001]. All other setting remain unchanged.

#### Additional Display Indications

As a default you'll find the following additional information in the first row of the LCD display:

XX/X/XX



