




















### DMX Channel Selection (DMX Protocol)

| Channel             | Function             | DMX-value | Hex-value | Value in % |
|---------------------|----------------------|-----------|-----------|------------|
| 1) Pan              | Pan- Position        | 0 - 255   | 0 - FF    | 0 – 100%   |
| 2) Tilt             | Tilt- Position       | 0 - 255   | 0 - FF    | 0 – 100%   |
| 3) Color            | white / open         | 0 - 3     | 0 - 3     | 1%         |
|                     | open / Dark Blue B01 | 4 - 7     | 4 - 7     | 2%         |
|                     | Dark Blue B01        | 8 - 11    | 8 - B     | 3%         |
|                     | Half-Color 2         | 12 - 15   | C - F     | 5%         |
|                     | Dark Green G01       | 16 - 19   | 10 - 13   | 7%         |
|                     | Half-Color 3         | 20 - 23   | 14 - 17   | 8%         |
|                     | Light Yellow Y0200   | 24 - 27   | 18 - 1B   | 10%        |
|                     | Half-Color 4         | 28 - 31   | 1C - 1F   | 11%        |
|                     | Bright Blue B2879    | 32 - 35   | 20 - 23   | 13%        |
|                     | Half-Color 5         | 36 - 39   | 24 - 27   | 15%        |
|                     | Lavender V98349      | 40 - 43   | 28 - 2B   | 16%        |
|                     | Half-Color 6         | 44 - 47   | 2C - 2F   | 18%        |
|                     | Magenta M56339       | 48 - 51   | 30 - 33   | 19%        |
|                     | Half-Color 7         | 52 - 55   | 34 - 37   | 21%        |
|                     | Light Blue B6467     | 56 - 59   | 38 - 3B   | 22%        |
|                     | Half-Color 8         | 60 - 63   | 3C - 3F   | 24%        |
|                     | Fire 00819           | 64 - 67   | 40 - 43   | 25%        |
|                     | Half-Color 9         | 68 - 71   | 44 - 47   | 27%        |
|                     | Turquoise C4700      | 72 - 75   | 48 - 4B   | 29%        |
|                     | Half-Color 10        | 76 - 79   | 4C - 4F   | 30%        |
| Pink M6336          | 80 - 83              | 50 - 53   | 32%       |            |
| Half-Color 11       | 84 - 87              | 54 - 57   | 33%       |            |
| Canary Y89312       | 88 - 91              | 58 - 5B   | 35%       |            |
| Half-Color 12       | 92 - 95              | 5C - 5F   | 36%       |            |
| Golden Amber O5921  | 96 - 99              | 60 - 63   | 38%       |            |
| Half-Color 13       | 100 - 103            | 64 - 67   | 40%       |            |
| Red R9926           | 104 - 107            | 68 - 6B   | 41%       |            |
| Half-Color 14       | 108 - 111            | 6C - 6F   | 43%       |            |
| Italien Blue C45370 | 112 - 115            | 70 - 73   | 44%       |            |
| Half-Color 15       | 116 - 119            | 74 - 77   | 46%       |            |
| Green G28389        | 120 - 123            | 78 - 7B   | 47%       |            |
| Half-Color 16       | 124 - 127            | 7C - 7F   | 49%       |            |

| Channel           | Function  | DMX-value | Hex-value | Value in % |
|-------------------|---|-----------|-----------|------------|
|                   | Multicolor 1  | 128 - 131 | 80 - 83   | 50%        |
|                   | Half-Color 17   | 132 - 135 | 84 - 87   | 52%        |
|                   | Multicolor 2  | 136 - 139 | 8 - 8B    | 53%        |
|                   | Rotation, slow - fast   | 140 - 253 | 8C - FD   | 54 - 98%   |
|                   | music color chaser (slow)   | 254       | FE        | 99%        |
|                   | music color chaser (fast)   | 255       | FF        | 100%       |
| <b>4) Gobos</b>   | open  | 0 - 7     | 0 - 7     | 2%         |
|                   | Gobo 1  (exchangeable) | 8 - 15    | 8 - F     | 5%         |
|                   | Gobo 2  (exchangeable) | 16 - 23   | 10 - 17   | 8%         |
|                   | Gobo 3                 | 24 - 31   | 18 - 1F   | 11%        |
|                   | Gobo 4                 | 32 - 39   | 20 - 27   | 15%        |
|                   | Gobo 5                 | 40 - 47   | 28 - 2F   | 18%        |
|                   | Gobo 6                | 48 - 55   | 30 - 37   | 21%        |
|                   | Gobo 7               | 56 - 63   | 38 - 3F   | 24%        |
|                   | Gobo 8               | 64 - 71   | 40 - 47   | 27%        |
|                   | Gobo 9               | 72 - 79   | 48 - 4F   | 30%        |
|                   | Gobo 10              | 80 - 87   | 50 - 57   | 33%        |
|                   | Gobo 11              | 88 - 95   | 58 - 5F   | 36%        |
|                   | Gobo 12              | 96 - 103  | 60 - 67   | 40%        |
|                   | Gobo 13              | 104 - 111 | 68 - 6F   | 42%        |
|                   | Gobo 14              | 112 - 119 | 70 - 77   | 45%        |
|                   | Gobo 15              | 120 - 127 | 78 - 7F   | 48%        |
|                   | Gobo 16              | 128 - 135 | 80 - 87   | 52%        |
|                   | Gobo 17              | 136 - 143 | 88 - 8F   | 55%        |
|                   | Gobo 18              | 144 - 151 | 90 - 97   | 58%        |
|                   | Gobo 19              | 152 - 159 | 98 - 9F   | 60%        |
|                   | music Gobo chaser (slow)  | 254       | FE        | 99%        |
|                   | music Gobo chaser (fast)  | 255       | FF        | 100%       |
| <b>5) Shutter</b> | Shutter closed  | 0 - 15    | 00 - 0F   | 0 - 3%     |
|                   | Random Shutter  | 16 - 31   | 10 - 1F   | 9%         |
|                   | Audio Shutter   | 32- 47    | 20 - 2F   | 16%        |
|                   | Shutter frequency, slow - fast  | 48 - 239  | 30 - EF   | 17 - 93%   |

| Channel             | Function  | DMX-value   | Hex-value    | Value in % |        |          |
|---------------------|---|-------------|--------------|------------|--------|----------|
|                     | Shutter open                                      | 240 - 255   | F0 - FF      | 94 - 100%  |        |          |
|                     | Lamp ON (ignition)                                | 254 - 255   | FD - FF      | 100%       |        |          |
| <b>6) Speed</b>     | Pan/Tilt, relative                                | 0 - 1       | 00 - 01      | 0 - 1%     |        |          |
|                     | Pan/Tilt, slow - fast                             | 2 - 255     | 02 - FF      | 2 - 100%   |        |          |
| <b>13) Movement</b> | no movement                                       | 0           | 00           | 0          |        |          |
|                     | <b>Movement</b>                                   | <b>Size</b> | <b>Phase</b> |            |        |          |
|                     | PAN   | 1           | 0°           | 01..01     | 01..01 | 0,5%     |
|                     |   | 1           | 90°          | 02..03     | 02..03 | 1,0%     |
|                     |   | 1           | 180°         | 04..05     | 04..05 | 1,7%     |
|                     |   | 1           | 270°         | 06..07     | 06..07 | 2,5%     |
|                     | PAN   | 2           | 0°           | 08..09     | 08..09 | 3,3%     |
|                     |   | 2           | 90°          | 10..11     | 0A..0B | 4,1%     |
|                     |   | 2           | 180°         | 12..13     | 0C..0D | 4,9%     |
|                     |   | 2           | 270°         | 14..15     | 0E..0F | 5,7%     |
|                     | PAN   | 3           | 0°           | 16..17     | 11..11 | 6,5%     |
|                     |   | 3           | 90°          | 18..19     | 12..13 | 7,3%     |
|                     |   | 3           | 180°         | 20..21     | 14..15 | 8,0%     |
|                     |   | 3           | 270°         | 22..23     | 16..17 | 8,8%     |
|                     | PAN   | 4           | 0°           | 24..25     | 18..19 | 9,6%     |
|                     |   | 4           | 90°          | 26..27     | 1A..1B | 10,4%    |
|                     |   | 4           | 180°         | 28..29     | 1C..1D | 11,2%    |
|                     |   | 4           | 270°         | 30..31     | 1E..1F | 12%      |
|                     | TILT  |             |              | 32..63     | 20..3F | 13..25%  |
|                     | PAN / TILT  |             |              | 64..95     | 40..5F | 26..37%  |
|                     | PAN / TILT (inverse)                              |             |              | 96..127    | 60..7F | 38..50%  |
|                     | Circle  |             |              | 128..159   | 80..9F | 51..62%  |
|                     | Circle (inverse)                                  |             |              | 160..191   | A0..BF | 63..75%  |
|                     | lying eight                                       |             |              | 192..223   | C0..DF | 76..87%  |
|                     | random movement                                   |             |              | 224..255   | E0..FF | 88..100% |
| <b>8) Laser</b>     | Laser OFF   | 0 - 15      | 00 - 0F      | 0 - 3%     |        |          |
|                     | Laser flashes, random                             | 16 - 31     | 10 - 1F      | 9%         |        |          |
|                     | Laser Audio controlled                            | 32 - 47     | 20 - 2F      | 16%        |        |          |
|                     | Laser blinking, slow - fast                       | 48 - 127    | 30 - 7F      | 17 - 49%   |        |          |
|                     | Laser blinking, slow - fast                       | 128 - 239   | 80 - EF      | 50 - 93%   |        |          |
|                     | Laser ON  | 240 - 255   | F0 - FF      | 94 - 100%  |        |          |
| <b>9) Special</b>   | n.a.  | 0 - 63      | 0 - 3F       | 0 - 25%    |        |          |
|                     | Color-Chaser, Color <-> C + 1, slow - fast        | 64 - 79     | 40 - 4F      | 26 - 31%   |        |          |
|                     | Color-Chaser, Color <-> C + 2, slow - fast        | 80 - 95     | 50 - 5F      | 32% - 37%  |        |          |
|                     | Pan/Tilt Audio controlled --> slow                | 96 - 111    | 60 - 6F      | 38 - 44%   |        |          |
|                     | Pan/Tilt Audio controlled --> fast                | 112 - 127   | 70 - 7F      | 45- 49%    |        |          |
|                     | Pan/Tilt random positions                         | 128 - 143   | 80 - 8F      | 50 - 56%   |        |          |
|                     | Lamp OFF after 3 sec. (only if Shutter is closed) | 230 - 249   | EF - F9      | 90 - 97%   |        |          |
|                     | Reset after 3 sec.                                | 250 - 255   | FA - FF      | 98 - 100%  |        |          |