

DMX Channel Index

impression[®]
X4L



from software version: v045



— since 1994 —

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1 Normal Mode (norm) 29 DMX Channels:

| Channel | Function | Time and Value | DMX |
|------------------------|--------------------------------------|----------------|----------|
| 1 Pan - High | Pan coarse | 0° - 660° | 0..255 |
| 2 Pan - Low | Pan fine | | 0..255 |
| 3 Tilt - High | Tilt coarse | 0° - 250° | 0..255 |
| 4 Tilt - Low | Tilt fine | | 0..255 |
| 5 Color (fixed) | Colors adjustable via RGB | | 0..7 |
| | Color 01 - Red ¹⁾ | | 8..15 |
| | Color 02 - Amber ¹⁾ | | 16..23 |
| | Color 03 - Warm Yellow ¹⁾ | | 24..31 |
| | Color 04 - Yellow ¹⁾ | | 32..39 |
| | Color 05 - Green ¹⁾ | | 40..47 |
| | Color 06 - Turquoise ¹⁾ | | 48..55 |
| | Color 07 - Cyan ¹⁾ | | 56..63 |
| | Color 08 - Blue ¹⁾ | | 64..71 |
| | Color 09 - Lavender ¹⁾ | | 72..79 |
| | Color 10 - Malve ¹⁾ | | 80..87 |
| | Color 11 - Magenta ¹⁾ | | 88..95 |
| | Color 12 - Pink ¹⁾ | | 96..103 |
| | White – CTO | 3200K | 104..111 |
| | White | 5600K | 112..119 |
| | White – CTB | 7200K | 120..127 |
| | Rainbow Effect Stop ²⁾ | | 128 |
| | Rainbow Effect ³⁾ | slow - fast | 129..223 |
| | Random colors | slow - fast | 224..255 |
| 6 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 7 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 8 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 9 White | Color mixing system - White | 0 - 100% | 0..255 |
| 10 Shutter | 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 |
| 11 Intensity | Intensity | 0 - 100% | 0..255 |

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|--------------------|---|---|----------|----------|
| 12 CTO | No CTO | | 0..7 | |
| | Continuous color temperature correction 2,500k – 10,000k | <i>Applicable for ALL colors</i> | 8..255 | |
| 13 Special | Pattern Block 1 | | 0..3 | |
| | Pattern Block 2 | | 4..7 | |
| | Pattern Block 3 | | 8..11 | |
| | Pattern Block 4 | | 12..15 | |
| | Pattern Block 5 | | 16..19 | |
| | Pattern Block 6 | | 20..23 | |
| | Pattern Block 7 | | 24..27 | |
| | Pattern Block 8 | | 28..31 | |
| | Pattern Block 9 | | 32..35 | |
| | Pattern Block 10 | | 36..39 | |
| | Switch Pattern to Animation | | 80..83 | |
| | Set Zoom normal | > 1 sec | 216..219 | |
| | Set Zoom inverted | > 1 sec | 220..223 | |
| RESET | > 1 sec | 250..255 | | |
| 14 Movement | No macros | | 0..4 | |
| | Macros | Movement Speed Phase <i>Use channel 15 to adjust</i> | | |
| | Pan | 1 | 0° | 01..01 |
| | Pan | 1 | 90° | 02..03 |
| | Pan | 1 | 180° | 04..05 |
| | Pan | 1 | 270° | 06..07 |
| | Pan | 2 | 0° | 08..09 |
| | Pan | 2 | 90° | 10..11 |
| | Pan | 2 | 180° | 12..13 |
| | Pan | 2 | 270° | 14..15 |
| | Pan | 3 | 0° | 16..17 |
| | Pan | 3 | 90° | 18..19 |
| | Pan | 3 | 180° | 20..21 |
| | Pan | 3 | 270° | 22..23 |
| | Pan | 4 | 0° | 24..25 |
| | Pan | 4 | 90° | 26..27 |
| | Pan | 4 | 180° | 28..29 |
| | Pan | 4 | 270° | 30..31 |
| | Tilt | size / phase see Pan | | 32..63 |
| | Pan / Tilt | size / phase see Pan | | 64..95 |
| | Pan / Tilt (inverse) | size / phase see Pan | | 96..127 |
| | Circle | size / phase see Pan | | 128..159 |
| | Circle (inverse) | size / phase see Pan | | 160..191 |

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|-------------------------------|--|----------------------|----------|
| | Lying eight | size / phase see Pan | 192..223 |
| | Random movement | size / phase see Pan | 224..255 |
| 15 Pan / Tilt Speed | Pan/Tilt movement speed from controller | | 0..1 |
| | Pan/Tilt, slow – fast | | 2..255 |
| | <i>Use this channel for the speed of the macros on channel 14</i> | | |
| 16 Zoom | Wide (flood) - narrow (spot) | 50° - 7° | 0..255 |
| 17 Pattern | No Pattern | | 0 |
| | 255 pre-defined patterns | | 1..255 |
| | 255 pre-defined animations (<i>only if Channel 13 is set to 80..83</i>) | | 1..255 |
| 18 Intensity Front | Intensity foreground layer | 0 - 100% | 0..255 |
| 19 Intensity Back | Intensity background layer ⁴⁾ | 0 - 100% | 0..255 |
| 20 Back Red | Color mixing system - Background Red ⁴⁾ | 0 - 100% | 0..255 |
| 21 Back Blue | Color mixing system - Background Green ⁴⁾ | 0 - 100% | 0..255 |
| 22 Back Green | Color mixing system - Background Blue ⁴⁾ | 0 - 100% | 0..255 |
| 23 Back White | Color mixing system - Background White ⁴⁾ | 0 - 100% | 0..255 |
| 24 A - Phase | Animation starting point | | 0..255 |
| 25 A - Speed | Animation speed (<i>starting from point set in Channel 24</i>) | | 1..255 |
| 26 Crossfade | 0..2 seconds transistion time | | 0..255 |
| 27 Pattern Orientation | Pan Normal / Tilt Normal | 0° | 0..1 |
| | Pan Normal / Tilt Normal | 60° | 2..3 |
| | Pan Normal / Tilt Normal | 120° | 4..5 |
| | Pan Normal / Tilt Normal | 180° | 6..7 |
| | Pan Normal / Tilt Normal | 240° | 8..9 |
| | Pan Normal / Tilt Normal | 300° | 10..11 |
| | Pan Normal / Tilt Inverted | 0° | 16..17 |
| | Pan Normal / Tilt Inverted | 60° | 18..19 |
| | Pan Normal / Tilt Inverted | 120° | 20..21 |
| | Pan Normal / Tilt Inverted | 180° | 22..23 |
| | Pan Normal / Tilt Inverted | 240° | 24..25 |
| | Pan Normal / Tilt Inverted | 300° | 26..27 |
| | Pan inverted / Tilt normal | 0° | 32..33 |
| | Pan inverted / Tilt normal | 60° | 34..35 |
| | Pan inverted / Tilt normal | 120° | 36..37 |
| | Pan inverted / Tilt normal | 180° | 38..39 |
| | Pan inverted / Tilt normal | 240° | 40..41 |
| | Pan inverted / Tilt normal | 300° | 42..43 |
| | Pan inverted / Tilt inverted | 0° | 48..49 |
| | Pan inverted / Tilt inverted | 60° | 50..51 |
| | Pan inverted / Tilt inverted | 120° | 52..53 |

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|----------------------------------|------------------------------|-------------|--------|
| | Pan inverted / Tilt inverted | 180° | 54..55 |
| | Pan inverted / Tilt inverted | 240° | 56..57 |
| | Pan inverted / Tilt inverted | 300° | 58..59 |
| 28 Pattern Effect | No effect | | 0..1 |
| | crossfade | | 02..15 |
| | random flash white | slow – fast | 16..31 |
| | random color | slow – fast | 32..47 |
| | random color background only | slow – fast | 48..63 |
| 29 Beam Shaper (optional) | Beam Shaper position | 0° - 540° | 0..255 |

2 Compressed Mode (*comp*) 21 DMX Channels:

| Channel | Function | Time and Value | DMX |
|------------------------|--------------------------------------|----------------|----------|
| 1 Pan - High | Pan coarse | 0° - 660° | 0..255 |
| 2 Pan - Low | Pan fine | | 0..255 |
| 3 Tilt - High | Tilt coarse | 0° - 250° | 0..255 |
| 4 Tilt - Low | Tilt fine | | 0..255 |
| 5 Color (fixed) | Colors adjustable via RGB | | 0..7 |
| | Color 01 - Red ¹⁾ | | 8..15 |
| | Color 02 - Amber ¹⁾ | | 16..23 |
| | Color 03 - Warm Yellow ¹⁾ | | 24..31 |
| | Color 04 - Yellow ¹⁾ | | 32..39 |
| | Color 05 - Green ¹⁾ | | 40..47 |
| | Color 06 - Turquoise ¹⁾ | | 48..55 |
| | Color 07 - Cyan ¹⁾ | | 56..63 |
| | Color 08 - Blue ¹⁾ | | 64..71 |
| | Color 09 - Lavender ¹⁾ | | 72..79 |
| | Color 10 - Malve ¹⁾ | | 80..87 |
| | Color 11 - Magenta ¹⁾ | | 88..95 |
| | Color 12 - Pink ¹⁾ | | 96..103 |
| | White – CTO | 3200K | 104..111 |
| | White | 5600K | 112..119 |
| | White – CTB | 7200K | 120..127 |
| | Rainbow Effect Stop ²⁾ | | 128 |
| | Rainbow Effect ³⁾ | slow - fast | 129..223 |
| | Random colors | slow - fast | 224..255 |
| 6 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 7 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 8 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 9 White | Color mixing system - White | 0 - 100% | 0..255 |
| 10 Shutter | 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 |
| 11 Intensity | Intensity | 0 - 100% | 0..255 |

| | | | |
|-----------------------------------|--|--------------------------------------|----------|
| 12 CTO | No CTO | | 0..7 |
| | Continuous color temperature correction 2,500k – 10,000k | <i>Applicable for ALL colors</i> | 8..255 |
| 13 Special | Pattern Block 1 | | 0..3 |
| | Pattern Block 2 | | 4..7 |
| | Pattern Block 3 | | 8..11 |
| | Pattern Block 4 | | 12..15 |
| | Pattern Block 5 | | 16..19 |
| | Pattern Block 6 | | 20..23 |
| | Pattern Block 7 | | 24..27 |
| | Pattern Block 8 | | 28..31 |
| | Pattern Block 9 | | 32..35 |
| | Pattern Block 10 | | 36..39 |
| | Switch Pattern to Animation | | 80..83 |
| | Set Zoom normal | > 1 sec | 216..219 |
| | Set Zoom inverted | > 1 sec | 220..223 |
| RESET | > 1 sec | 250..255 | |
| 14 Zoom | Wide (flood) - narrow (spot) | 50° - 7° | 0..255 |
| 15 Pattern | No Pattern | | 0 |
| | 255 pre-defined patterns | | 1..255 |
| | 255 pre-defined animations (<i>only if Channel 13 is set to 80..83</i>) | | 1..255 |
| 16 A - Phase | Animation starting point | | 0..255 |
| 17 A - Speed | Animation speed (<i>starting from point set in Channel 24</i>) | | 1..255 |
| 18 Crossfade | 0..2 seconds transition time | | 0..255 |
| 19 Pattern Orientation | Pan Normal / Tilt Normal | 0° | 0..1 |
| | Pan Normal / Tilt Normal | 60° | 2..3 |
| | Pan Normal / Tilt Normal | 120° | 4..5 |
| | Pan Normal / Tilt Normal | 180° | 6..7 |
| | Pan Normal / Tilt Normal | 240° | 8..9 |
| | Pan Normal / Tilt Normal | 300° | 10..11 |
| | Pan Normal / Tilt Inverted | 0° | 16..17 |
| | Pan Normal / Tilt Inverted | 60° | 18..19 |
| | Pan Normal / Tilt Inverted | 120° | 20..21 |
| | Pan Normal / Tilt Inverted | 180° | 22..23 |
| | Pan Normal / Tilt Inverted | 240° | 24..25 |
| | Pan Normal / Tilt Inverted | 300° | 26..27 |
| | Pan inverted / Tilt normal | 0° | 32..33 |
| | Pan inverted / Tilt normal | 60° | 34..35 |
| | Pan inverted / Tilt normal | 120° | 36..37 |
| | Pan inverted / Tilt normal | 180° | 38..39 |
| | Pan inverted / Tilt normal | 240° | 40..41 |
| | Pan inverted / Tilt normal | 300° | 42..43 |
| | Pan inverted / Tilt inverted | 0° | 48..49 |
| | Pan inverted / Tilt inverted | 60° | 50..51 |
| | Pan inverted / Tilt inverted | 120° | 52..53 |

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|-------------------------------------|------------------------------|-------------|--------|
| | Pan inverted / Tilt inverted | 180° | 54..55 |
| | Pan inverted / Tilt inverted | 240° | 56..57 |
| | Pan inverted / Tilt inverted | 300° | 58..59 |
| 20 Pattern Effect | No effect | | 0..1 |
| | crossfade | | 02..15 |
| | random flash white | slow – fast | 16..31 |
| | random color | slow – fast | 32..47 |
| | random color background only | slow – fast | 48..63 |
| 21 Beam Shaper (optional) | Beam Shaper position | 0° - 540° | 0..255 |

3 Extended Mode (*high*) 31 DMX Channels:

| Channel | Function | Time and Value | DMX |
|----------------------------|---|---|---|
| 1 Pan - High | Pan coarse | 0° - 660° | 0..255 |
| 2 Pan - Low | Pan fine | | 0..255 |
| 3 Tilt - High | Tilt coarse | 0° - 250° | 0..255 |
| 4 Tilt - Low | Tilt fine | | 0..255 |
| 5 Red - High | Color mixing system - Red - high | 0 - 100% | 0..255 |
| 6 Red - Low | Color mixing system - Red - low | 0 - 100% | 0..255 |
| 7 Green - High | Color mixing system - Green - high | 0 - 100% | 0..255 |
| 8 Green - Low | Color mixing system - Green - low | 0 - 100% | 0..255 |
| 9 Blue - High | Color mixing system - Blue - high | 0 - 100% | 0..255 |
| 10 Blue - Low | Color mixing system - Blue - low | 0 - 100% | 0..255 |
| 11 White - High | Color mixing system - White - high | 0 - 100% | 0..255 |
| 12 White - Low | Color mixing system - White - low | 0 - 100% | 0..255 |
| 13 Special | Pattern Block 1 Pattern Block 2 Pattern Block 3 Pattern Block 4 Pattern Block 5 Pattern Block 6 Pattern Block 7 Pattern Block 8 Pattern Block 9 Pattern Block 10 Switch Pattern to Animation Set Zoom normal Set Zoom inverted RESET | > 1 sec > 1 sec > 1 sec | 0..3 4..7 8..11 12..15 16..19 20..23 24..27 28..31 32..35 36..39 80..83 216..219 220..223 250..255 |
| 14 Shutter | Shutter closed Shutter pulse random Fade on, snap off (random patterns) Snap on, fade off (random patterns) Fade on, fade off (random patterns) Strobe random Strobe effect slow - fast Shutter open | slow – fast slow – fast slow – fast slow – fast 5s - 0.1s 1 Hz - 10 Hz | 0..15 16..47 48..79 80..111 112..143 144..199 200..239 240..255 |
| 15 Intensity - High | Intensity - coarse | 0 - 100% | 0..255 |
| 16 Intensity - Low | Intensity - fine | 0 - 100% | 0..255 |
| 17 CTO | No CTO Continuous color temperature correction 2,500k – 10,000k | <i>Applicable for ALL colors</i> | 0..7 8..255 |
| 18 Zoom | Wide (flood) - narrow (spot) | 50° - 7° | 0..255 |

| | | | |
|----------------------------------|---|-------------|--------|
| 19 Pattern | No Pattern | | 0 |
| | 255 pre-defined patterns | | 1..255 |
| | 255 pre-defined animations (only if Channel 13 is set to 80..83) | | 1..255 |
| 20 Intensity Front | Intensity foreground layer | 0 - 100% | 0..255 |
| 21 Intensity Back | Intensity background layer ⁴⁾ | 0 - 100% | 0..255 |
| 22 Back Red | Color mixing system - Background Red ⁴⁾ | 0 - 100% | 0..255 |
| 23 Back Blue | Color mixing system - Background Green ⁴⁾ | 0 - 100% | 0..255 |
| 24 Back Green | Color mixing system - Background Blue ⁴⁾ | 0 - 100% | 0..255 |
| 25 Back White | Color mixing system - Background White ⁴⁾ | 0 - 100% | 0..255 |
| 26 A - Phase | Animation starting point | | 0..255 |
| 27 A - Speed | Animation speed (starting from point set in Channel 24) | | 1..255 |
| 28 Crossfade | 0..2 seconds transistion time | | 0..255 |
| 29 Pattern Orientation | Pan Normal / Tilt Normal | 0° | 0..1 |
| | Pan Normal / Tilt Normal | 60° | 2..3 |
| | Pan Normal / Tilt Normal | 120° | 4..5 |
| | Pan Normal / Tilt Normal | 180° | 6..7 |
| | Pan Normal / Tilt Normal | 240° | 8..9 |
| | Pan Normal / Tilt Normal | 300° | 10..11 |
| | Pan Normal / Tilt Inverted | 0° | 16..17 |
| | Pan Normal / Tilt Inverted | 60° | 18..19 |
| | Pan Normal / Tilt Inverted | 120° | 20..21 |
| | Pan Normal / Tilt Inverted | 180° | 22..23 |
| | Pan Normal / Tilt Inverted | 240° | 24..25 |
| | Pan Normal / Tilt Inverted | 300° | 26..27 |
| | Pan inverted / Tilt normal | 0° | 32..33 |
| | Pan inverted / Tilt normal | 60° | 34..35 |
| | Pan inverted / Tilt normal | 120° | 36..37 |
| | Pan inverted / Tilt normal | 180° | 38..39 |
| | Pan inverted / Tilt normal | 240° | 40..41 |
| | Pan inverted / Tilt normal | 300° | 42..43 |
| | Pan inverted / Tilt inverted | 0° | 48..49 |
| | Pan inverted / Tilt inverted | 60° | 50..51 |
| Pan inverted / Tilt inverted | 120° | 52..53 | |
| Pan inverted / Tilt inverted | 180° | 54..55 | |
| Pan inverted / Tilt inverted | 240° | 56..57 | |
| Pan inverted / Tilt inverted | 300° | 58..59 | |
| 30 Pattern Effect | No effect | | 0..1 |
| | crossfade | | 02..15 |
| | random flash white | slow – fast | 16..31 |
| | random color | slow – fast | 32..47 |
| | random color background only | slow – fast | 48..63 |
| 31 Beam Shaper (optional) | Beam Shaper position | 0° - 540° | 0..255 |

4 Single Pixel Mode (*spix*) 169 DMX Channels:

| Channel | Function | Time and Value | DMX |
|------------------------|--------------------------------------|----------------|----------|
| 1 Pan - High | Pan coarse | 0° - 660° | 0..255 |
| 2 Pan - Low | Pan fine | | 0..255 |
| 3 Tilt - High | Tilt coarse | 0° - 260° | 0..255 |
| 4 Tilt - Low | Tilt fine | | 0..255 |
| 5 Color (fixed) | Colors adjustable via RGB | | 0..7 |
| | Color 01 - Red ¹⁾ | | 8..15 |
| | Color 02 - Amber ¹⁾ | | 16..23 |
| | Color 03 - Warm Yellow ¹⁾ | | 24..31 |
| | Color 04 - Yellow ¹⁾ | | 32..39 |
| | Color 05 - Green ¹⁾ | | 40..47 |
| | Color 06 - Turquoise ¹⁾ | | 48..55 |
| | Color 07 - Cyan ¹⁾ | | 56..63 |
| | Color 08 - Blue ¹⁾ | | 64..71 |
| | Color 09 - Lavender ¹⁾ | | 72..79 |
| | Color 10 - Malve ¹⁾ | | 80..87 |
| | Color 11 - Magenta ¹⁾ | | 88..95 |
| | Color 12 - Pink ¹⁾ | | 96..103 |
| | White – CTO | 3200K | 104..111 |
| | White | 5600K | 112..119 |
| | White – CTB | 7200K | 120..127 |
| | Rainbow Effect Stop ²⁾ | | 128 |
| | Rainbow Effect ³⁾ | slow - fast | 129..223 |
| | Random colors | slow - fast | 224..255 |
| 6 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 7 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 8 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 9 White | Color mixing system - White | 0 - 100% | 0..255 |
| 10 Shutter | 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 |
| 11 Intensity | Intensity | 0 - 100% | 0..255 |

| | | | |
|-----------------------------------|--|--------------------------------------|----------|
| 12 CTO | No CTO | | 0..7 |
| | Continuous color temperature correction 2,500k – 10,000k | <i>Applicable for ALL colors</i> | 8..255 |
| 13 Special | Pattern Block 1 | | 0..3 |
| | Pattern Block 2 | | 4..7 |
| | Pattern Block 3 | | 8..11 |
| | Pattern Block 4 | | 12..15 |
| | Pattern Block 5 | | 16..19 |
| | Pattern Block 6 | | 20..23 |
| | Pattern Block 7 | | 24..27 |
| | Pattern Block 8 | | 28..31 |
| | Pattern Block 9 | | 32..35 |
| | Pattern Block 10 | | 36..39 |
| | Switch Pattern to Animation | | 80..83 |
| | Set Zoom normal | > 1 sec | 216..219 |
| | Set Zoom inverted | > 1 sec | 220..223 |
| | RESET | > 1 sec | 250..255 |
| 14 Zoom | Wide (flood) - narrow (spot) | 50° - 7° | 0..255 |
| 15 Pattern | No Pattern | | 0 |
| | 254 pre-defined patterns | | 1..254 |
| | 254 pre-defined animations (<i>only if Channel 13 is set to 80..83</i>) | | 1..254 |
| | Single Pixel enabled (<i>use channel 22-169 to set RGBW</i>) | | 255 |
| 16 A - Phase | Animation starting point | | 0..255 |
| 17 A - Speed | Animation speed (<i>starting from point set in Channel 24</i>) | | 1..255 |
| 18 Crossfade | 0..2 seconds transistion time | | 0..255 |
| 19 Pattern Orientation | Pan Normal / Tilt Normal | 0° | 0..1 |
| | Pan Normal / Tilt Normal | 60° | 2..3 |
| | Pan Normal / Tilt Normal | 120° | 4..5 |
| | Pan Normal / Tilt Normal | 180° | 6..7 |
| | Pan Normal / Tilt Normal | 240° | 8..9 |
| | Pan Normal / Tilt Normal | 300° | 10..11 |
| | Pan Normal / Tilt Inverted | 0° | 16..17 |
| | Pan Normal / Tilt Inverted | 60° | 18..19 |
| | Pan Normal / Tilt Inverted | 120° | 20..21 |
| | Pan Normal / Tilt Inverted | 180° | 22..23 |
| | Pan Normal / Tilt Inverted | 240° | 24..25 |
| | Pan Normal / Tilt Inverted | 300° | 26..27 |
| | Pan inverted / Tilt normal | 0° | 32..33 |
| | Pan inverted / Tilt normal | 60° | 34..35 |
| | Pan inverted / Tilt normal | 120° | 36..37 |

| | | | |
|----------------------------------|------------------------------|-------------|--------|
| | Pan inverted / Tilt normal | 180° | 38..39 |
| | Pan inverted / Tilt normal | 240° | 40..41 |
| | Pan inverted / Tilt normal | 300° | 42..43 |
| | Pan inverted / Tilt inverted | 0° | 48..49 |
| | Pan inverted / Tilt inverted | 60° | 50..51 |
| | Pan inverted / Tilt inverted | 120° | 52..53 |
| | Pan inverted / Tilt inverted | 180° | 54..55 |
| | Pan inverted / Tilt inverted | 240° | 56..57 |
| | Pan inverted / Tilt inverted | 300° | 58..59 |
| 20 Pattern Effect | No effect | | 0..1 |
| | crossfade | | 02..15 |
| | random flash white | slow – fast | 16..31 |
| | random color | slow – fast | 32..47 |
| | random color background only | slow – fast | 48..63 |
| 21 Beam Shaper (optional) | Beam Shaper position | 0° - 540° | 0..255 |
| 22 Pixel 1 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 23 Pixel 1 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 24 Pixel 1 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 25 Pixel 1 White | Color mixing system - White | 0 - 100% | 0..255 |
| 26 Pixel 2 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 27 Pixel 2 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 28 Pixel 2 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 29 Pixel 2 White | Color mixing system - White | 0 - 100% | 0..255 |
| 30 Pixel 3 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 31 Pixel 3 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 32 Pixel 3 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 33 Pixel 3 White | Color mixing system - White | 0 - 100% | 0..255 |
| 34 Pixel 4 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 35 Pixel 4 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 36 Pixel 4 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 37 Pixel 4 White | Color mixing system - White | 0 - 100% | 0..255 |
| 38 Pixel 5 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 39 Pixel 5 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 40 Pixel 5 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 41 Pixel 5 White | Color mixing system - White | 0 - 100% | 0..255 |
| 42 Pixel 6 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 43 Pixel 6 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 44 Pixel 6 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |

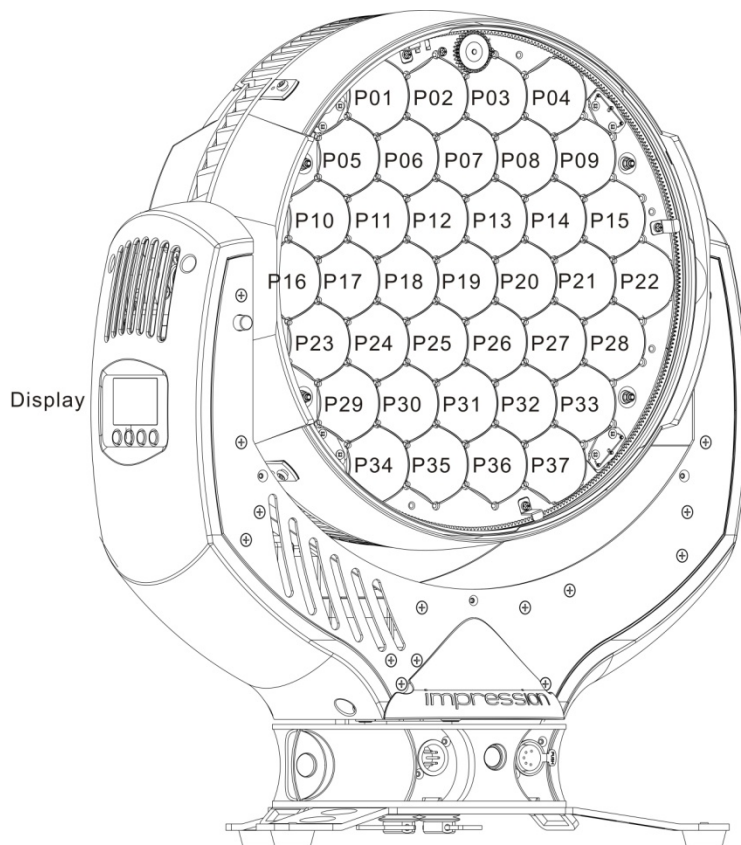
| | | | |
|--------------------------|-----------------------------|----------|--------|
| 45 Pixel 6 White | Color mixing system - White | 0 - 100% | 0..255 |
| 46 Pixel 7 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 47 Pixel 7 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 48 Pixel 7 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 49 Pixel 7 White | Color mixing system - White | 0 - 100% | 0..255 |
| 50 Pixel 8 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 51 Pixel 8 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 52 Pixel 8 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 53 Pixel 8 White | Color mixing system - White | 0 - 100% | 0..255 |
| 54 Pixel 9 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 55 Pixel 9 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 56 Pixel 9 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 57 Pixel 9 White | Color mixing system - White | 0 - 100% | 0..255 |
| 58 Pixel 10 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 59 Pixel 10 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 60 Pixel 10 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 61 Pixel 10 White | Color mixing system - White | 0 - 100% | 0..255 |
| 62 Pixel 11 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 63 Pixel 11 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 64 Pixel 11 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 65 Pixel 11 White | Color mixing system - White | 0 - 100% | 0..255 |
| 66 Pixel 12 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 67 Pixel 12 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 68 Pixel 12 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 69 Pixel 12 White | Color mixing system - White | 0 - 100% | 0..255 |
| 70 Pixel 13 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 71 Pixel 13 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 72 Pixel 13 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 73 Pixel 13 White | Color mixing system - White | 0 - 100% | 0..255 |
| 74 Pixel 14 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 75 Pixel 14 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 76 Pixel 14 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 77 Pixel 14 White | Color mixing system - White | 0 - 100% | 0..255 |
| 78 Pixel 15 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 79 Pixel 15 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 80 Pixel 15 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 81 Pixel 15 White | Color mixing system - White | 0 - 100% | 0..255 |
| 82 Pixel 16 Red | Color mixing system - Red | 0 - 100% | 0..255 |

| | | | |
|---------------------------|-----------------------------|----------|--------|
| 83 Pixel 16 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 84 Pixel 16 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 85 Pixel 16 White | Color mixing system - White | 0 - 100% | 0..255 |
| 86 Pixel 17 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 87 Pixel 17 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 88 Pixel 17 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 89 Pixel 17 White | Color mixing system - White | 0 - 100% | 0..255 |
| 90 Pixel 18 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 91 Pixel 18 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 92 Pixel 18 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 93 Pixel 18 White | Color mixing system - White | 0 - 100% | 0..255 |
| 94 Pixel 19 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 95 Pixel 19 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 96 Pixel 19 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 97 Pixel 19 White | Color mixing system - White | 0 - 100% | 0..255 |
| 98 Pixel 20 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 99 Pixel 20 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 100 Pixel 20 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 101 Pixel 20 White | Color mixing system - White | 0 - 100% | 0..255 |
| 102 Pixel 21 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 103 Pixel 21 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 104 Pixel 21 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 105 Pixel 21 White | Color mixing system - White | 0 - 100% | 0..255 |
| 106 Pixel 22 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 107 Pixel 22 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 108 Pixel 22 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 109 Pixel 22 White | Color mixing system - White | 0 - 100% | 0..255 |
| 110 Pixel 23 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 111 Pixel 23 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 112 Pixel 23 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 113 Pixel 23 White | Color mixing system - White | 0 - 100% | 0..255 |
| 114 Pixel 24 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 115 Pixel 24 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 116 Pixel 24 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 117 Pixel 24 White | Color mixing system - White | 0 - 100% | 0..255 |
| 118 Pixel 25 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 119 Pixel 25 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 120 Pixel 25 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |

| | | | |
|---------------------------|-----------------------------|----------|--------|
| 121 Pixel 25 White | Color mixing system - White | 0 - 100% | 0..255 |
| 122 Pixel 26 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 123 Pixel 26 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 124 Pixel 26 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 125 Pixel 26 White | Color mixing system - White | 0 - 100% | 0..255 |
| 126 Pixel 27 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 127 Pixel 27 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 128 Pixel 27 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 129 Pixel 27 White | Color mixing system - White | 0 - 100% | 0..255 |
| 130 Pixel 28 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 131 Pixel 28 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 132 Pixel 28 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 133 Pixel 28 White | Color mixing system - White | 0 - 100% | 0..255 |
| 134 Pixel 29 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 135 Pixel 29 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 136 Pixel 29 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 137 Pixel 29 White | Color mixing system - White | 0 - 100% | 0..255 |
| 138 Pixel 30 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 139 Pixel 30 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 140 Pixel 30 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 141 Pixel 30 White | Color mixing system - White | 0 - 100% | 0..255 |
| 142 Pixel 31 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 143 Pixel 31 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 144 Pixel 31 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 145 Pixel 31 White | Color mixing system - White | 0 - 100% | 0..255 |
| 146 Pixel 32 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 147 Pixel 32 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 148 Pixel 32 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 149 Pixel 32 White | Color mixing system - White | 0 - 100% | 0..255 |
| 150 Pixel 33 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 151 Pixel 33 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 152 Pixel 33 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 153 Pixel 33 White | Color mixing system - White | 0 - 100% | 0..255 |
| 154 Pixel 34 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 155 Pixel 34 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 156 Pixel 34 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 157 Pixel 34 White | Color mixing system - White | 0 - 100% | 0..255 |
| 158 Pixel 35 Red | Color mixing system - Red | 0 - 100% | 0..255 |

| | | | |
|---------------------------|-----------------------------|----------|--------|
| 159 Pixel 35 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 160 Pixel 35 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 161 Pixel 35 White | Color mixing system - White | 0 - 100% | 0..255 |
| 162 Pixel 36 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 163 Pixel 36 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 164 Pixel 36 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 165 Pixel 36 White | Color mixing system - White | 0 - 100% | 0..255 |
| 166 Pixel 37 Red | Color mixing system - Red | 0 - 100% | 0..255 |
| 167 Pixel 37 Green | Color mixing system - Green | 0 - 100% | 0..255 |
| 168 Pixel 37 Blue | Color mixing system - Blue | 0 - 100% | 0..255 |
| 169 Pixel 37 White | Color mixing system - White | 0 - 100% | 0..255 |

The Pixel are numbered left to right / top to bottom 1 – 37 as shown below.
Tilt DMX Value = 0 & “Display” to the left.



¹⁾ 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 L** will then start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION X4 L** can have different start-colors but will still execute the rainbow effect synchronously. If you choose a color different from the ones marked with ¹⁾ 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) The background layer is only visible on the unlit pixel of the foreground layer if a pattern is applied.

5 Technical Specifications:

| | |
|--|--|
| Power supply | |
| Power consumption | 900 VA (Watt) |
| Power Input | Auto sensing 100-240 V AC, 50-60 Hz |
| Fuse protection | Micro-fuse 5x20 mm, T10A |
| Operational Parameters | |
| Max. Ambient Temperature | 5° - 45°C (integrated overheating switch) 40°-113°F |
| Mounting Position | Any (see relevant chapter) |
| Lighting System - Additive Color mixing | |
| LED Type | 37 x Osram Ostar RGBW multi-chip |
| Lifetime | 50,000 h |
| Wavelength optimized for maximum presentable color space | |
| Optical System | |
| Full RGBW / High efficient Collimator cluster Beam-Shape – positionable and rotateable (optional) | |
| Shutter / Dimmer (8/16 Bit) | |
| Strobe- Effect with variable speed between 1-10 flashes per second, Random & Pulse-Effects Continuous Dimmer 0 - 100% | |
| Zoom | |
| 7 to 50 degree continuous high speed zoom | |
| Optical Patterns | |
| Several hundred pre-defined beam patterns with direct access and manipulation. Free control of every pixel, color and intensity | |
| DMX Control | |
| Standard USITT DMX-512, 5 pin XLR: [+]=Pin 3 / [-]=Pin 2 / [Ground]=Pin 1 / Pin 4&5 N.C. The DMX- Addressing starts at the DMX channel [001]. | |
| Pan / Tilt (8/16 Bit) | |
| Pan- movement | 660° in min. 2 seconds (Position Feedback) |
| Tilt- movement | 250° in min. 1 second (Position Feedback) |
| Weights and Measures | |
| Width | 430 mm / 16.9'' |
| Length | 185 mm / 7.3'' |
| Height (head vertical) | 530 mm / 20.9'' (incl. standing foot/tripod) |
| Weight (net) | 15.6 kg / 34.4 lbs |
| Weight (incl. tripod) | 16.9 kg / 37.3 lbs |

6 Dimensions

