

DMX Channel Index

HIGHLANDER

WASH



Fixture software version 34



GLP® Highlander Wash DMX Channel Index – Revision B

This document covers fixture software version 34

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Manufacturer's head office:

German Light Products GmbH (GLP), Industriestrasse 2, 76307 Karlsbad, Germany

Tel (Germany): +49 7248 92719 - 0

Service & Support EMEA:

GLP, Industriestrasse 2, 76307 Karlsbad, Germany

Tel. (Germany): +49 7248 9271955

Email: support@glp.de

www.glp.de

Service & Support USA:

GLP USA, 1145 Arroyo St., Ste. A, 91340 San Fernando, California

Tel (USA): +1 818 767 8899

Support (US): info@germanlightproducts.com

www.germanlightproducts.com

1. DMX control layout

Normal Mode (26 DMX channels)

| Channel | Function | Description | DMX range | Default DMX | % Range | Fade |
|--------------------------------------|---------------|--|-----------|-------------|--------------|------|
| 1 | Pan coarse | -335° – +335° (16-bit) | 0 – 65535 | 32767 | 0 – 100% | Fade |
| 2 | Pan fine | | | | | |
| 3 | Tilt coarse | -132° – +132° (16-bit) | 0 – 65535 | 32767 | 0 – 100% | Fade |
| 4 | Tilt fine | | | | | |
| 5 | Color wheel 1 | Open | 0 – 5 | 0 | 0 – 2.0% | Snap |
| | | Color 1 – Deep red | 6 – 10 | | 2.4 – 3.9% | Snap |
| | | Color 2 – Blue | 11 – 15 | | 4.3 – 5.9% | Snap |
| | | Color 3 – Deep green | 16 – 20 | | 6.3 – 7.8% | Snap |
| | | Color 4 – Light green | 21 – 25 | | 8.2 – 9.8% | Snap |
| | | Color 5 – Yellow | 26 – 30 | | 10.2 – 11.8% | Snap |
| | | Color 6 – Orange | 31 – 35 | | 12.2 – 13.7% | Snap |
| | | Color 7 – Deep blue | 36 – 40 | | 14.1 – 15.7% | Snap |
| | | Open | 41 – 43 | | 16.1 – 16.9% | Snap |
| | | Color wheel indexing 0 – 360° (continuous) | 44 – 167 | | 17.3 – 65.5% | Fade |
| | | Color wheel rotation CW fast – slow | 168 – 211 | | 65.9 – 82.7% | Fade |
| Color wheel rotation stop | 212 | 83.1% | Snap | | | |
| Color wheel rotation CCW slow – fast | 213 – 255 | 83.5 – 100% | Fade | | | |
| 6 | Color wheel 2 | Open | 0 – 5 | 0 | 0 – 2.0% | Snap |
| | | Color 1 – Lavender | 6 – 10 | | 2.4 – 3.9% | Snap |
| | | Color 2 – Magenta | 11 – 15 | | 4.3 – 5.9% | Snap |
| | | Color 3 – Pink | 16 – 20 | | 6.3 – 7.8% | Snap |
| | | Color 4 – Half minus green | 21 – 25 | | 8.2 – 9.8% | Snap |
| | | Color 5 – CTB | 26 – 30 | | 10.2 – 11.8% | Snap |
| | | Color 6 – CTO | 31 – 35 | | 12.2 – 13.7% | Snap |
| | | Color 7 – Amber | 36 – 40 | | 14.1 – 15.7% | Snap |
| | | Open | 41 – 43 | | 16.1 – 16.9% | Snap |
| | | Color wheel indexing 0 – 360° (continuous) | 44 – 167 | | 17.3 – 65.5% | Fade |
| | | Color wheel rotation CW fast – slow | 168 – 211 | | 65.9 – 82.7% | Fade |
| Color wheel rotation stop | 212 | 83.1% | Snap | | | |
| Color wheel rotation CCW slow – fast | 213 – 255 | 83.5 – 100% | Fade | | | |
| 7 | Cyan | Cyan 0 – 100% | 0 – 255 | 0 | 0 – 100% | Fade |
| 8 | Magenta | Magenta 0 – 100% | 0 – 255 | 0 | 0 – 100% | Fade |
| 9 | Yellow | Yellow 0 – 100% | 0 – 255 | 0 | 0 – 100% | Fade |
| 10 | CTO | CTO 0 – 100% | 0 – 255 | 0 | 0 – 100% | Fade |
| 11 | Shutter | Shutter closed | 0 – 15 | 255 | 0 – 5.9% | Snap |
| | | Pulse, random, slow – fast | 16 – 47 | | 6.3 – 18.4% | Fade |
| | | Pulse, slow – fast | 48 – 79 | | 18.8 – 31% | |
| | | Pulse open, slow – fast | 80 – 111 | | 31.4 – 43.5% | |
| | | Pulse close, slow – fast | 112 – 143 | | 43.9 – 56.1% | |
| | | Strobe, random, slow – fast | 144 – 199 | | 56.5 – 78.0% | |
| | | Strobe, 1 – 10 Hz | 200 – 239 | | 78.4 – 93.7% | |
| | | Shutter open | 240 – 255 | | 94.1 – 100% | Snap |

| | | | | | | |
|-----------|---------------------------------|---|-----------------------------|----------|-----------------------------------|----------------------|
| 12 | Dimmer coarse | Intensity 0 – 100% | 0 – 65535 | 32768 | 0 – 100% | Fade |
| 13 | Dimmer fine | | | | | |
| 14 | Zoom | Narrow (spot) – wide (flood) | 0 – 255 | 128 | 0 – 100% | Fade |
| 15 | Focus | Near – far | 0 – 255 | 128 | 0 – 100% | Fade |
| 16 | Framing module indexing | CW indexing from 0° to -45° Center: 0° CCW indexing from 0° to +45° | 0 – 128 128 129 – 255 | 128 | 0 – 50.2% 50.2% 50.6 – 100% | Fade Snap Fade |
| 17 | Framing blade 1 position / left | PI mode: In – out LR mode: Blade left side | 0 – 255 0 – 255 | 0 0 | 0 – 100% 0 – 100% | Fade Fade |
| 18 | Framing blade 1 index / right | PI mode: Tilt -30° – +30° LR mode: Blade right side | 0 – 255 0 – 255 | 128 0 | 0 – 100% 0 – 100% | Fade Fade |
| 19 | Framing blade 2 position / left | PI mode: In – out LR mode: Blade left side | 0 – 255 0 – 255 | 0 0 | 0 – 100% 0 – 100% | Fade Fade |
| 20 | Framing blade 2 index / right | PI mode: Tilt -30° – +30° LR mode: Blade right side | 0 – 255 0 – 255 | 128 0 | 0 – 100% 0 – 100% | Fade Fade |
| 21 | Framing blade 3 position / left | PI mode: In – out LR mode: Blade left side | 0 – 255 0 – 255 | 0 0 | 0 – 100% 0 – 100% | Fade Fade |
| 22 | Framing blade 3 index / right | PI mode: Tilt -30° – +30° LR mode: Blade right side | 0 – 255 0 – 255 | 128 0 | 0 – 100% 0 – 100% | Fade Fade |
| 23 | Framing blade 4 position / left | PI mode: In – out LR mode: Blade left side | 0 – 255 0 – 255 | 0 0 | 0 – 100% 0 – 100% | Fade Fade |
| 24 | Framing blade 4 index / right | PI mode: Tilt -30° – +30° LR mode: Blade right side | 0 – 255 0 – 255 | 128 0 | 0 – 100% 0 – 100% | Fade Fade |
| 25 | Iris effect | Open – closed | 0 – 255 | 128 | 0 – 100% | Fade |

| | | | | | | |
|--|-----------------|--|-----------|---|--------------|------|
| 26 | Special/Control | No function | 0 – 26 | 0 | 0 – 10.2% | Snap |
| | | Performance fast* | 27 – 29 | | 10.6 – 11.4% | |
| | | Performance normal* | 30 – 32 | | 11.8 – 12.5% | |
| | | Performance smooth* | 33 – 35 | | 12.9 – 13.7% | |
| | | No function | 36 – 38 | | 14.1 – 14.9% | |
| | | Dimmer curve soft* | 39 – 41 | | 15.3 – 16.1% | |
| | | Dimmer curve linear* | 42 – 44 | | 16.5 – 17.3% | |
| | | No function | 45 – 53 | | 17.6 – 20.8% | |
| | | Display off* | 54 – 56 | | 21.2 – 22% | |
| | | Display auto-off* | 57 – 59 | | 22.4 – 23.1% | |
| | | Display on* | 60 – 62 | | 23.5 – 24.3% | |
| | | Display orientation normal* | 63 – 65 | | 24.7 – 25.5% | |
| | | Display orientation invert* | 66 – 68 | | 25.9 – 26.7% | |
| | | Display orientation auto* | 69 – 71 | | 27.1 – 27.8% | |
| | | No DMX = blackout* | 72 – 74 | | 28.2 – 29.0% | |
| | | No DMX = hold* | 75 – 77 | | 29.4 – 30.2% | |
| | | No DMX = play stand-alone* | 78 – 80 | | 30.6 – 31.4% | |
| | | Capture stand-alone scene (DMX snapshot)* | 81 – 83 | | 31.8 – 32.5% | |
| | | No function | 84 – 86 | | 32.9 – 33.7% | |
| | | Fan regulated* | 87 – 89 | | 34.1 – 34.9% | |
| | | Fan high speed* | 90 – 92 | | 35.3 – 36.1% | |
| | | No function | 93 – 104 | | 36.5 – 40.8% | |
| | | Position feedback off* | 105 – 107 | | 41.2 – 42.0% | |
| | | Position feedback on* | 108 – 110 | | 42.4 – 43.1% | |
| | | Effect shortcuts off* | 111 – 113 | | 43.5 – 44.3% | |
| | | Effect shortcuts on* | 114 – 116 | | 44.7 – 45.5% | |
| | | Tilt invert off* | 117 – 119 | | 45.9 – 46.7% | |
| | | Tilt invert on* | 120 – 122 | | 47.1 – 47.8% | |
| | | Pan invert off* | 123 – 125 | | 48.2 – 49.0% | |
| | | Pan invert on* | 126 – 128 | | 49.4 – 50.2% | |
| | | Zoom invert off* | 129 – 131 | | 50.6 – 51.4% | |
| | | Zoom invert on* | 132 – 134 | | 51.8 – 52.5% | |
| | | No function | 135 – 140 | | 52.9 – 54.9% | |
| | | Focus tracking off* | 141 – 143 | | 55.3 – 56.1% | |
| | | Focus tracking near* | 144 – 146 | | 56.5 – 57.3% | |
| | | Focus tracking medium* | 147 – 149 | | 57.6 – 58.4% | |
| | | Focus tracking far* | 150 – 152 | | 58.8 – 59.6% | |
| | | No function | 153 – 158 | | 60.0 – 62.0% | |
| Framing Control = PI Mode, (position/Index)* | 159 – 161 | 62.4 – 63.1% | | | | |
| Framing Control = LR Mode, (left/right)* | 162 – 164 | 63.5 – 64.3% | | | | |
| No function | 165 – 191 | 64.7 – 74.9% | | | | |
| Lamp power Eco* | 192 – 194 | 75.3 – 76.1% | | | | |
| Lamp power Normal* | 195 – 197 | 76.5 – 77.3% | | | | |
| No function | 198 – 200 | 77.6 – 78.4% | | | | |
| Auto lamp on enabled* | 201 – 203 | 78.8 – 79.6% | | | | |
| Auto lamp on disabled* | 204 – 206 | 80.0 – 80.8% | | | | |
| No function | 207 – 209 | 81.2 – 82.0% | | | | |
| Lamp on* | 210 – 212 | 82.4 – 83.1% | | | | |
| Lamp off* | 213 – 215 | 83.5 – 84.3% | | | | |
| No function | 216 – 245 | 84.7 – 96.1% | | | | |
| Reset pan/tilt only * | 246 – 248 | 96.5 – 97.3% | | | | |
| Reset head only* | 249 – 251 | 97.6 – 98.4% | | | | |
| Reset all* | 252 – 255 | 98.8 – 100% | | | | |

* Hold value for 3 seconds to apply

Notes:

Percentage values are calculated by dividing DMX values by 2.56 and rounding to the nearest 0.1%.

To apply a command on the Special/Control channel, send the corresponding DMX value for the indicated time (3 seconds).

*Default settings are written in **bold type**.*

