

DMX Channel Index

impression[®]
E 350



Software v. 28-40-31-27



GLP® impression® E350 DMX Channel Index Revision A

This user manual covers fixture software version v. 28-40-21-27

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impression E350 DMX channel index

Normal mode (27 DMX channels)

| Channel | Function | Description | DMX range | Default DMX | % Range | Fade |
|---|-------------|--|-----------|-------------|--------------|------|
| 1 | Pan coarse | Left – right in 1.2° increments (16 bit) | 0 – 65535 | 32767 | 0 – 100% | Fade |
| 2 | Pan fine | | | | | |
| 3 | Tilt coarse | Up – down in 1.2° increments (16 bit) | 0 – 65535 | 32767 | 0 – 100% | Fade |
| 4 | Tilt fine | | | | | |
| 5 | Color wheel | Open – White 7500 K | 0 – 3 | 0 | 0 – 1.2% | Snap |
| | | Color 01 – Congo blue (UV) | 4 – 7 | | 1.6 – 2.7% | Snap |
| | | Color 02 – Green | 8 – 11 | | 3.1 – 4.3% | Snap |
| | | Color 03 – Orange | 12 – 15 | | 4.7 – 5.9% | Snap |
| | | Color 04 – Magenta | 16 – 19 | | 6.3 – 7.5% | Snap |
| | | Color 05 – Blue | 20 – 23 | | 7.8 – 9.0% | Snap |
| | | Color 06 – CTC 1 | 24 – 27 | | 9.4 – 10.6% | Snap |
| | | Color 07 – CTC 2 | 28 – 31 | | 11.0 – 12.2% | Snap |
| | | Color 08 – CTC 3 | 32 – 35 | | 12.5 – 13.7% | Snap |
| | | Color 09 – Minus green | 36 – 39 | | 14.1 – 15.3% | Snap |
| | | Color 10 – Red | 40 – 43 | | 15.7 – 16.9% | Snap |
| Color wheel indexing 0 – 360° (continuous color changing) | 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 | Cyan | Cyan 0 – 100% | 0 – 255 | 0 | 0 – 100% | Fade |
| 7 | Magenta | Magenta 0 – 100% | 0 – 255 | 0 | 0 – 100% | Fade |
| 8 | Yellow | Yellow 0 – 100% | 0 – 255 | 0 | 0 – 100% | Fade |
| 9 | CTC | Off (default: 7500 K) | 0 – 31 | 0 | 0 – 12.2% | Snap |
| | | 8000 K | 32 – 35 | | 12.5 – 13.7% | Fade |
| | | 7900 K | 36 – 39 | | 14.1 – 15.3% | |
| | | 7800 K | 40 – 43 | | 15.7 – 16.9% | |
| | | 7700 K | 44 – 47 | | 17.3 – 18.4% | |
| | | 7600 K | 48 – 51 | | 18.8 – 20.0% | |
| | | 7500 K | 52 – 55 | | 20.4 – 21.6% | |
| | | 7400 K | 56 – 59 | | 22.0 – 23.1% | |
| | | 7300 K | 60 – 63 | | 23.5 – 24.7% | |
| | | 7200 K | 64 – 67 | | 25.1 – 26.3% | |
| | | 7100 K | 68 – 71 | | 26.7 – 27.8% | |
| | | 7000 K | 72 – 75 | | 28.2 – 29.4% | |
| | | 6900 K | 76 – 79 | | 29.8 – 31.0% | |
| | | 6800 K | 80 – 83 | | 31.4 – 32.5% | |
| | | 6700 K | 84 – 87 | | 32.9 – 34.1% | |
| | | 6600 K | 88 – 91 | | 34.5 – 35.7% | |
| | | 6500 K | 92 – 95 | | 36.1 – 37.3% | |
| | | 6400 K | 96 – 99 | | 37.6 – 38.8% | |
| | | 6300 K | 100 – 103 | | 39.2 – 40.4% | |
| | | 6200 K | 104 – 107 | | 40.8 – 42.0% | |
| | | 6100 K | 108 – 111 | | 42.4 – 43.5% | |
| 6000 K | 112 – 115 | 43.9 – 45.1% | | | | |
| 5900 K | 116 – 119 | 45.5 – 46.7% | | | | |

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|-------------------------------|--|--|--|----------|---|-------------|
| <p>9 continued</p> | | <p>5800 K 5700 K 5600 K 5500 K 5400 K 5300 K 5200 K 5100 K 5000 K 4900 K 4800 K 4700 K 4600 K 4500 K 4400 K 4300 K 4200 K 4100 K 4000 K 3900 K 3800 K 3700 K 3600 K 3500 K 3400 K 3300 K 3200 K 3100 K 3000 K 2900 K 2800 K 2700 K 2600 K 2500 K</p> | <p>120 – 123 124 – 127 128 – 131 132 – 135 136 – 139 140 – 143 144 – 147 148 – 151 152 – 155 156 – 159 160 – 163 164 – 167 168 – 171 172 – 175 176 – 179 180 – 183 184 – 187 188 – 191 192 – 195 196 – 199 200 – 203 204 – 207 208 – 211 212 – 215 216 – 219 220 – 223 224 – 227 228 – 231 232 – 235 236 – 239 240 – 243 244 – 247 248 – 251 252 – 255</p> | | <p>47.1 – 48.2% 48.6 – 49.8% 50.2 – 51.4% 51.8 – 52.9% 53.3 – 54.5% 54.9 – 56.1% 56.5 – 57.6% 58.0 – 59.2% 59.6 – 60.8% 61.2 – 62.4% 62.7 – 63.9% 64.3 – 65.5% 65.9 – 67.1% 67.5 – 68.6% 69.0 – 70.2% 70.6 – 71.8% 72.2 – 73.3% 73.7 – 74.9% 75.3 – 76.5% 76.9 – 78.0% 78.4 – 79.6% 80.0 – 81.2% 81.6 – 82.7% 83.1 – 84.3% 84.7 – 85.9% 86.3 – 87.5% 87.8 – 89.0% 89.4 – 90.6% 91.0 – 92.2% 92.5 – 93.7% 94.1 – 95.3% 95.7 – 96.9% 97.3 – 98.4% 98.8 – 100%</p> | <p>Fade</p> |
| <p>10</p> | <p>Gobo wheel 1 gobo selection</p> | <p>Open Gobo 01  Gobo 02  Gobo 03 </p> | <p>0 – 15 16 – 31 32 – 47 48 – 63</p> | <p>0</p> | <p>0 – 5.9% 6.3 – 12.2% 12.5 – 18.4% 18.8 – 24.7%</p> | <p>Snap</p> |

| | | | | | | |
|------------------------|---|--|---------------|-------------|--------------|------|
| 10 continued | | Gobo 04  | 64 – 79 | | 25.1 – 31% | Snap |
| | | Gobo 05  | 80 – 95 | | 31.4 – 37.3% | |
| | | Gobo 06  | 96 – 111 | | 37.6 – 43.5% | |
| | | Gobo 07  | 112 – 127 | | 43.9 – 49.8% | |
| | | Gobo wheel rotation stop | 128 | | 50.2% | |
| | | Gobo wheel rotation CW fast – slow | 129 – 191 | | 50.6 – 74.9% | Fade |
| | | Gobo wheel rotation stop | 192 | | 75.3% | Snap |
| | | Gobo wheel rotation CCW slow – fast | 193 – 255 | | 75.7 – 100% | Fade |
| 11 | Gobo wheel 1 index & rotation | Gobo index 0 – 360° | 0 – 32767 | 0 | 0 – 50.0% | Fade |
| | | Gobo rotation CW fast – slow | 32768 – 49151 | | 50.0 – 74.9% | Fade |
| 12 | | Gobo rotation stop | 49152 | | 75% | Snap |
| | Gobo rotation CCW slow – fast | 49153 – 65535 | | 75.1 – 100% | Fade | |
| 13 | Gobo wheel 2 (fixed gobos) gobo selection | Open | 0 – 7 | 0 | 0 – 2.7% | Snap |
| | | Gobo 01  | 8 – 15 | | 3.1 – 5.9% | |
| | | Gobo 02  | 16 – 23 | | 6.3 – 9.0% | |
| | | Gobo 03  | 24 – 31 | | 9.4 – 12.2% | |
| | | Gobo 04  | 32 – 39 | | 12.5 – 15.3% | |
| | | | | | | |

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|------------------------|-------------------------------------|---|-----------|-------------|--------------|------|
| 13 continued | | Gobo 05  | 40 – 47 | | 15.7 – 18.4% | Snap |
| | | Gobo 06  | 48 – 55 | | 18.8 – 21.6% | |
| | | Gobo 07  | 56 – 63 | | 22.0 – 24.7% | |
| | | Gobo 08  | 64 – 71 | | 25.1 – 27.8% | |
| | | Gobo 09  | 72 – 79 | | 28.2 – 31% | |
| | | Gobo 10  | 80 – 87 | | 31.4 – 34.1% | |
| | | No function | 88 – 127 | | 34.5 – 49.8% | |
| | | Gobo wheel rotation stop | 128 | | 50.2% | Snap |
| | | Gobo wheel rotation CW fast – slow | 129 – 191 | | 50.6 – 74.9% | Fade |
| | | Gobo wheel rotation stop | 192 | | 75.3% | Snap |
| | Gobo wheel rotation CCW slow – fast | 193 – 255 | | 75.7 – 100% | Fade | |
| 14 | Shutter | Closed | 0 – 15 | 255 | 0 – 5.9% | Snap |
| | | Pulse, random, slow – fast | 16 – 47 | | 6.3 – 18.4% | Fade |
| | | Ramp-up, random, slow – fast | 48 – 79 | | 18.8 – 31% | |
| | | Ramp-down, random, slow – fast | 80 – 111 | | 31.4 – 43.5% | |
| | | Ramp-up-down, random, slow – fast | 112 – 143 | | 43.9 – 56.1% | |
| | | Strobe with b/o pause 5 – 0.1 sec. | 144 – 199 | | 56.5 – 78.0% | |
| | | Strobe 1 – 10 Hz | 200 – 239 | | 78.4 – 93.7% | |
| | | Open | 240 – 255 | | 94.1 – 100% | Snap |

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|-----------|-----------------------------|---------------------------------------|-----------|-------|-------------|------|
| 15 | Dimmer coarse | Intensity 0 – 100% | 0 – 65535 | 32768 | 0 – 100% | Fade |
| 16 | Dimmer fine | | | | | |
| 17 | Focus coarse | Near – far | 0 – 65535 | 32768 | 0 – 100% | Fade |
| 18 | Focus fine | | | | | |
| 19 | Zoom | Wide – narrow | 0 – 255 | 128 | 0 – 100% | Fade |
| 20 | Frost | No frost | 0 – 3 | 0 | 0 – 1.2% | Snap |
| | | Frost light 0 – 100% | 4 – 127 | | 1.6 – 49.8% | Fade |
| | | Frost heavy 0 – 100% | 128 – 255 | | 50.2 – 100% | |
| 21 | Prism | No prism | 0 – 7 | 0 | 0 – 2.7% | Snap |
| | | Prism rotation CW fast - slow | 8 – 130 | | 3.1 – 51% | Fade |
| | | Prism rotation stop | 131 | | 51.4% | Snap |
| | | Prism rotation CCW slow – fast | 132 – 255 | | 51.8 – 100% | Fade |
| 22 | Effect wheel position | Effect wheel out – in – tilt 0 - 90° | 0 – 255 | 0 | 0 – 100% | Fade |
| 23 | Effect wheel index/rotation | Effect wheel rotation stop | 0 | 0 | 0% | Snap |
| | | Effect wheel rotation CW fast – slow | 1 – 127 | | 0.4 – 49.8% | Fade |
| | | Effect wheel rotation stop | 128 | | 50.2% | Snap |
| | | Effect wheel rotation CCW slow – fast | 129 – 255 | | 50.6 – 100% | Fade |
| 24 | Iris | Open – closed | 0 – 255 | 0 | 0 – 100% | Fade |

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|-----------------------------------|-------------------|------------------------------------|-----------|---|--------------|------|
| 25 | Special / Control | No function | 0 – 38 | 0 | 0 – 14.9% | Snap |
| | | Dimmer curve extra 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% | |
| | | No function | 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 = stand-alone* | 78 – 80 | | 30.6 – 31.4% | |
| | | No DMX = DMX shot* | 81 – 83 | | 31.8 – 32.5% | |
| | | No function | 84 – 86 | | 32.9 – 33.7% | |
| | | Fan regulated* | 87 – 89 | | 34.1 – 34.9% | |
| | | Fan high* | 90 – 92 | | 35.3 – 36.1% | |
| | | Fan medium* | 93 – 95 | | 36.5 – 37.3% | |
| | | Fan low* | 96 – 98 | | 37.6 – 38.4% | |
| | | No function | 99 – 104 | | 38.8 – 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% | |
| | | 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 – 191 | | 60.0 – 74.9% | |
| | | PWM 2200 Hz ** | 192 – 194 | | 75.3 – 76.1% | |
| PWM 3000 Hz ** | 195 – 197 | 76.5 – 77.3% | | | | |
| PWM 4800 Hz ** | 198 – 200 | 77.6 – 78.4% | | | | |
| PWM 9600 Hz ** | 201 – 203 | 78.8 – 79.6% | | | | |
| No function | 204 – 206 | 80.0 – 80.8% | | | | |
| PWM 25 kHz ** | 207 – 209 | 81.2 – 82.0% | | | | |
| No function | 210 – 239 | 82.4 – 93.7% | | | | |
| Set fixture to factory defaults** | 240 – 242 | 94.1 – 94.9% | | | | |
| No function | 243 – 245 | 95.3 – 96.1% | | | | |
| Reset pan/tilt * | 246 – 248 | 96.5 – 97.3% | | | | |
| Reset head* | 249 – 251 | 97.6 – 98.4% | | | | |
| Reset all* | 252 – 255 | 98.8 – 100% | | | | |

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|-----------|----------------|-------------------------|----------|---|--------------|------|
| 26 | FX1 selection | No FX | 0 – 10 | 0 | 0 – 3.9% | Snap |
| | | Chaser 1-2-3-4-3-2-1 | 11 – 14 | | 4.3 – 5.5% | |
| | | Crossfade 1-2-3-4-3-2-1 | 15 – 18 | | 5.9 – 7.1% | |
| | | Chaser 1+2 – 3+4 | 19 – 22 | | 7.5 – 8.6% | |
| | | Crossfade 1+2 – 3+4 | 23 – 26 | | 9 – 10.2% | |
| | | Chaser 1+4 – 2+3 | 27 – 30 | | 10.6 – 11.8% | |
| | | Crossfade 1+4 – 2+3 | 31 – 34 | | 12.2 – 13.3% | |
| | | Chaser random | 35 – 38 | | 13.7 – 14.9% | |
| | | Crossfade random | 39 – 42 | | 15.3 – 16.5% | |
| | | No function | 43 – 255 | | 16.9 – 100% | |
| 27 | FX1 adjustment | FX1 speed slow – fast | 0 – 255 | 0 | 0 – 100% | Fade |

* Move from zero and hold value for 3 seconds to apply

** Move from zero and hold value for 5 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 Channel 25 (Special / Control), start at a value of zero, then move to the required value and hold it for the required time (e.g. 3 seconds). If you move to the required value from any other value than zero, the command will not be applied.

To adjust the PWM frequency using the Special / Control channel, start at a value of zero, move to the required value and hold it for at least 5 seconds.

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

