

DMX Channel Index

impression[®]
E 350



Fixture software version 50



GLP® impression® E350 DMX Channel Index Revision C

This document covers fixture software version 50

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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	-282.5° to +282.5° (16 bit)	0 – 65535	32767	0 – 100%	Fade
2	Pan fine					
3	Tilt coarse	-128° to +128° (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%	

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

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%	

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

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

25	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 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%	
		Load setting 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%				

26	FX1 selection	No FX	0 – 10	0	0 – 3.9%	Snap
		LED cluster FX 01 Chaser	11 – 14		4.3 – 5.5%	
		LED cluster FX 01 Crossfade	15 – 18		5.9 – 7.1%	
		LED cluster FX 02 Chaser	19 – 22		7.5 – 8.6%	
		LED cluster FX 02 Crossfade	23 – 26		9 – 10.2%	
		LED cluster FX 03 Chaser	27 – 30		10.6 – 11.8%	
		LED cluster FX 03 Crossfade	31 – 34		12.2 – 13.3%	
		LED cluster FX 04 Chaser random	35 – 38		13.7 – 14.9%	
		LED cluster FX 04 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**.

