

DMX Channel Index

impression[&]
S350 WASH



Fixture software 50



GLP® impression® S350 Wash DMX Channel Index Revision C

This document covers fixture software version 50

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impression S350 Wash 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	0 – 3	0	0 – 1.2%	Snap
		Color 01 – Congo blue	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	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	Shutter	Closed	0 – 15	255	0 – 5.9%	Snap Fade
		Pulse, random, slow – fast	16 – 47		6.3 – 18.4%	
		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
11	Dimmer coarse	Intensity 0 – 100%	0 – 65535	32768	0 – 100%	Fade
12	Dimmer fine					
13	Focus	Near – far	0 – 255	128	0 – 100%	Fade
14	Zoom	Wide – narrow	0 – 255	127	0 – 100%	Fade

15	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
16	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
17	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
18	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
19	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
20	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
21	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
22	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
23	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
24	Iris	Open → closed	0 – 255	0	0 – 100%	Fade
25	Special / Control	No function Performance fast* Performance normal* Performance smooth* No function Dimmer curve extra soft* Dimmer curve linear* No function Display off* Display auto-off* Display on* Display orientation normal* Display orientation invert* No function No DMX = blackout* No DMX = hold* No DMX = stand-alone* No DMX = DMX shot* No function Fan regulated* Fan high* Fan medium* Fan low* No function Position feedback off* Position feedback on* Effect shortcuts off* Effect shortcuts on* Tilt invert off* Tilt invert on* Pan invert off* Pan invert on* Zoom invert off* Zoom invert on*	0 – 26 27 – 29 30 – 32 33 – 35 36 – 38 39 – 41 42 – 44 45 – 53 54 – 56 57 – 59 60 – 62 63 – 65 66 – 68 69 – 71 72 – 74 75 – 77 78 – 80 81 – 83 84 – 86 87 – 89 90 – 92 93 – 95 96 – 98 99 – 104 105 – 107 108 – 110 111 – 113 114 – 116 117 – 119 120 – 122 123 – 125 126 – 128 129 – 131 132 – 134	0	0 – 10.2% 10.6 – 11.4% 11.8 – 12.5% 12.9 – 13.7% 14.1 – 14.9% 15.3 – 16.1% 16.5 – 17.3% 17.6 – 20.8% 21.2 – 22% 22.4 – 23.1% 23.5 – 24.3% 24.7 – 25.5% 25.9 – 26.7% 27.1 – 27.8% 28.2 – 29.0% 29.4 – 30.2% 30.6 – 31.4% 31.8 – 32.5% 32.9 – 33.7% 34.1 – 34.9% 35.3 – 36.1% 36.5 – 37.3% 37.6 – 38.4% 38.8 – 40.8% 41.2 – 42.0% 42.4 – 43.1% 43.5 – 44.3% 44.7 – 45.5% 45.9 – 46.7% 47.1 – 47.8% 48.2 – 49.0% 49.4 – 50.2% 50.6 – 51.4% 51.8 – 52.5%	Snap

25 (contd.)	Special/Control (contd.)	Focus tracking off*	141 – 143	0	55.3 – 56.1%	Snap
		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%	
		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%	
		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%				
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**.

