

# DMX Channel Index

impression<sup>®</sup>  
FRI



Revision F

Covers firmware version 118-14-13



**Normal mode (16 DMX channels)**

Channel	Function	Description	DMX range	Default DMX	% Range*	Fade
<b>1</b>	Pan coarse	Left – right in 1.2° increments (16 bit)	0 – 65535	32768	0 – 100%	Fade
<b>2</b>	Pan fine					
<b>3</b>	Tilt coarse	Up – down in 1.2° increments (16 bit)	0 – 65535	32768	0 – 100%	Fade
<b>4</b>	Tilt fine					
<b>5</b>	Color presets (virtual color wheel)	RGBW control	0 – 7	0	0 – 2.5%	Snap
		Color 01 - Red	8 – 15		3 – 5.5%	
		Color 02 - Amber	16 – 23		6 – 9%	
		Color 03 - Warm yellow	24 – 31		9.5 – 12%	
		Color 04 - Yellow	32 – 39		12.5 – 15%	
		Color 05 - Green	40 – 47		15.5 – 19.5%	
		Color 06 - Turquoise	48 – 55		20 – 21.5%	
		Color 07 - Cyan	56 – 63		22 – 24.5%	
		Color 08 - Blue	64 – 71		25 – 27.5%	
		Color 09 - Lavender	72 – 79		28 – 31%	
		Color 10 - Mauve	80 – 87		31.5 – 34%	
		Color 11 - Magenta	88 – 95		34.5 – 37%	
		Color 12 - Pink	96 – 103		37.5 – 40.5%	
		White – CTO	104 – 111		41 – 43.5%	
	White	112 – 119	44 – 46.5%			
	White – CTB	120 – 127	47 – 49.5%			
	Rainbow effect stop	128	50.2%			
	Rainbow effect active	129 – 223	50.5 – 87.5%			
	Random colors slow – fast	224 – 255	88 – 100%			
<b>6</b>	Red	Color mixing - Red	0 – 255	255	0 – 100%	Fade
<b>7</b>	Green	Color mixing - Green	0 – 255	255	0 – 100%	Fade
<b>8</b>	Blue	Color mixing - Blue	0 – 255	255	0 – 100%	Fade
<b>9</b>	White	Color mixing - White	0 – 255	0	0 – 100%	Fade
<b>10</b>	Shutter / strobe	Shutter closed	0 – 15	255	0 – 5.5%	Snap
		Shutter pulse random	16 – 47		6 – 18.5%	Fade
		Fade on, snap off (random patterns)	48 – 79		19 – 31.5%	Fade
		Snap on, fade off (random patterns)	80 – 111		32 – 43.5%	Fade
		Fade on, fade off (random patterns)	112 – 143		44 – 62.5%	Fade
		Strobe with blackout pause	144 – 199		63 – 77.5%	Fade
		Strobe effect slow - fast	200 – 239		78 – 94.5%	Fade
		Shutter open	240 – 255		95 – 100%	Snap
<b>11</b>	Dimmer coarse	Intensity 0 – 100%	0 – 65535	0	0 – 100%	Fade
<b>12</b>	Dimmer fine					
<b>13</b>	CTC	RGBW raw	0 – 15	0	0 – 5.9%	Snap
		CTC 10 000 K – 2500 K	16 – 255		6 – 100%	Fade

<b>14</b>	Settings (see notes at end of this table)	Idle	0 – 11	0	0 – 4.3%	Snap
		<i>No function</i>	12 – 26		4.7 – 10.2%	
		Performance = Fast*	27 – 29		10.6 – 11.4%	
		<b>Performance = Normal*</b>	30 – 32		11.8 – 12.5%	
		Performance = Smooth*	33 – 35		12.9 – 13.7%	
		<i>No function</i>	36 – 38		14.1 – 14.9%	
		<b>Dimmer curve = Extra-soft*</b>	39 – 41		15.3 – 16.1%	
		Dimmer curve = Linear*	42 – 44		16.5 – 17.3%	
		Dimmer curve = Soft*	45 – 47		17.6 – 18.4%	
		<i>No function</i>	48 – 56		18.8 – 22.0%	
		<b>Display auto-off*</b>	57 – 59		22.4 – 23.1%	
		Display permanently on*	60 – 62		23.5 – 24.3%	
		<b>Display invert off*</b>	63 – 65		24.7 – 25.5%	
		Display invert on*	66 – 68		25.9 – 26.7%	
		<i>No function</i>	69 – 71		27.1 – 27.8%	
		No DMX = Blackout*	72 – 74		28.2 – 29.0%	
		<b>No DMX = Hold current effect*</b>	75 – 77		29.4 – 30.2%	
		No DMX = Stand-Alone*	78 – 80		30.6 – 31.4%	
		No DMX = Save Snapshot*	81 – 83		31.8 – 32.5%	
		<i>No function</i>	84 – 86		32.9 – 33.7%	
		<b>Fans temperature-regulated*</b>	87 – 89		34.1 – 34.9%	
		Fans constant high*	90 – 92		35.3 – 36.1%	
		Fans constant medium*	93 – 95		36.5 – 37.3%	
		Fans constant low*	96 – 98		37.6 – 38.4%	
		<i>No function</i>	99 – 104		38.8 – 40.8%	
		P/T position feedback off*	105 – 107		41.2 – 42%	
		<b>P/T position feedback on*</b>	108 – 110		42.4 – 43.1%	
		<i>No function</i>	111 – 116		43.5 – 45.5%	
		<b>Tilt invert off*</b>	117 – 119		45.9 – 46.7%	
		Tilt invert on*	120 – 122		47.1 – 47.8%	
		<b>Pan invert off*</b>	123 – 125		48.2 – 49%	
		Pan invert on*	126 – 128		49.4 – 50.2%	
		<b>Zoom invert off*</b>	129 – 131		50.6 – 51.4%	
		Zoom invert on*	132 – 134		51.8 – 52.5%	
		<i>No function</i>	135 – 149		52.9 – 58.4%	
		<i>PWM frequency:</i>				
		<b>582 Hz**</b>	150		58.8%	
		583 Hz**	151		59.2%	
		584 Hz**	152		59.6%	
		585 Hz**	153		60%	
		586 Hz**	154		60.4%	
		587 Hz**	155		60.8%	
		588 Hz**	156		61.2%	
		589 Hz**	157		61.6%	
		590 Hz**	158		62%	
		591 Hz**	159		62.4%	
		592 Hz**	160		62.7%	
593 Hz**	161		63.1%			
594 Hz**	162		63.5%			
595 Hz**	163		63.9%			
596 Hz**	164		64.3%			
597 Hz**	165		64.7%			
598 Hz**	166		65.1%			
599 Hz**	167		65.5%			
600 Hz**	168		65.9%			
601 Hz**	169		66.3%			
602 Hz**	170		66.7%			
603 Hz**	171		67.1%			
604 Hz**	172		67.5%			
605 Hz**	173		67.8%			
606 Hz**	174		68.2%			

<b>14</b> continued		607 Hz**	175		68.6%	
		608 Hz**	176		69.0%	
		609 Hz**	177		69.4%	
		610 Hz**	178		69.8%	
		611 Hz**	179		70.2%	
		612 Hz**	180		70.6%	
		613 Hz**	181		71.0%	
		614 Hz**	182		71.4%	
		615 Hz**	183		71.8%	
		616 Hz**	184		72.2%	
		617 Hz**	185		72.5%	
		618 Hz**	186		72.9%	
		No function	187 – 191		73.3 – 74.9%	
		1200 Hz**	192 – 194		75.3 – 76.1%	
		2400 Hz**	195 – 197		76.5 – 77.3%	
		4800 Hz**	198 – 200		77.6 – 78.4%	
		9600 Hz**	201 – 203		78.8 – 79.6%	
	No function	204 – 251		80 – 98.4%		
	Reset entire fixture*	252 – 255		98.8 – 100%		
<b>15</b>	Zoom	Flood wide – narrow	0 – 255	0	0 – 100%	Fade
<b>16</b>	Endless pan rotation	Stop	0	0	0%	Snap
		Pan rotation CW fast – slow	1 – 127		0.5 – 49.5%	Fade
		Stop	128		50.2%	Snap
		Pan rotation CCW slow – fast	129 – 254		50.5 – 99.5%	Fade
		Stop	255		100%	Snap

**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 14 (Settings), start at a value of zero, then move to the required value and hold it for at least 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 Settings channel, start at a value of zero, move to the required value and hold it for at least 5 seconds.

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