

channel		function	type of control	effect	decimal		percentage	
16 bit	8 bit							
1	1	X axis, base movement (pan) coarse	proportional	proportional coarse control of the base motor movement	0	255	0%	100%
2	2	X axis, base movement (pan) fine	proportional	proportional fine control of the base motor movement	0	255	0%	100%
3	3	Y axis, yoke movement (tilt) coarse	proportional	proportional coarse control of the yoke motor movement	0	255	0%	100%
4	4	Y axis, yoke movement (tilt) fine	proportional	proportional fine control of the yoke motor movement	0	255	0%	100%
5	5	movement speed	step	standard (fast)	0	10	0%	4%
			step	ultra fast movement (best for programming positions)	11	25	4%	10%
			proportional	vector mode (from fast to slow)	26	127	10%	50%
			proportional	tracking mode (from fast to slow)	128	247	50%	97%
			step	smooth mode	248	255	97%	100%
6	6	dimmer	proportional	gradual adjustment of luminous intensity from 0 to 100% (see channel 21/22)	0	255	0%	100%
7	7	strobe, shutter and zap effect	step	shutter closed (zap off)	0	9	0%	4%
			proportional	strobe effect with variable speed from slow to fast	10	66	4%	26%
			step	shutter open (zap off)	67	68	26%	27%
			proportional	sequenced pulse effect, slow closing, fast opening (with variable speed from slow to fast)	69	125	27%	49%
			step	shutter open (zap off)	126	127	49%	50%
			proportional	sequenced pulse effect, fast closing, slow opening (with variable speed from fast to slow)	128	184	50%	72%
			step	shutter open (zap off)	185	187	73%	73%
			proportional	random strobe effect, non-synchronised, variable speed from slow to fast	188	244	74%	96%
8	8	iris diaphragm (LIN-Linear)	step	open	0	9	0%	4%
			proportional	from maximum to minimum aperture	10	255	4%	100%
8	8	iris diaphragm (with internal PULS effect)	step	open	0	9	0%	4%
			proportional	from maximum to minimum aperture	10	124	4%	49%
			step	minimum diameter	125	129	49%	51%
			proportional	pulsing with proportional increase in speed	130	189	51%	74%
			step	open	190	192	75%	75%
			proportional	pulse and flash effect with proportional increase in speed	193	255	76%	100%
Note 1 : the iris diaphragm operation will vary according to the selection made for IRIS on the display panel (linear LIN or with internal PULS effect)								
9	9	zoom	proportional	proportional control of zoom effect wheel from narrow to wide beam	0	255	0%	100%
10	10	focus	proportional	proportional control of focus	0	255	0%	100%
11	11	aerial gobo selection (standard)	step	no gobo	0	10	0%	4%
				gobo 1	11	36	4%	14%
				gobo 2	37	62	15%	24%
				gobo 3	63	88	25%	35%
				gobo 4	89	114	35%	45%
				gobo 5	115	140	45%	55%
				gobo 6	141	166	55%	65%
			gobo 7	167	192	65%	75%	
proportional	continuous rotation of the gobo wheel from slow to fast	193	255	76%	100%			
11	11	aerial gobo selection (effect activated from channel 23/22)	step	no gobo	0	10	0%	4%
			proportional	from gobo 1 to gobo 7 through 360° gobo 1 (central value 33) gobo 2 (central value 55) gobo 3 (central value 78) gobo 4 (central value 101) gobo 5 (central value 124) gobo 6 (central value 147) gobo 7 (central value 169)	11	192	4%	75%
				continuous rotation of the gobo wheel from slow to fast	193	255	76%	100%
Note 2 : gobo selection movement will vary according to the selection made for channel 23 (16 bit) / 22 (8 bit)								

channel		function	type of control	effect	decimal		percentage	
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12	12	indexing gobo rotation through 360°	step	no effect	0	10	0%	4%
			proportional	proportional indexing of the gobos through 360°	11	255	4%	100%
13		fine indexing of the gobos 16 bit	proportional	fine indexing of the gobo	0	255	0%	100%
14	13	gobo rotation	step	no effect	0	10	0%	4%
			proportional	continuous rotation of the gobo in a clockwise direction with proportional control over decreasing speed	11	131	4%	51%
			step	gobo stop	132	134	52%	53%
			proportional	continuous rotation of the gobo in a counter-clockwise direction with proportional control over increasing speed	135	255	53%	100%
Note 3 : when channel 12 is set to a level between 0 and 10, gobo rotation (channel 14, 16 bit and channel 13, 8 bit) does not effect indexing, the gobo stops instantly								
15	14	break up gobo selection (standard)	step	no gobo	0	10	0%	4%
				gobo 1	11	36	4%	14%
				gobo 2	37	62	15%	24%
				gobo 3	63	88	25%	35%
				gobo 4	89	114	35%	45%
				gobo 5	115	140	45%	55%
				gobo 6	141	166	55%	65%
			gobo 7	167	192	65%	75%	
proportional	continuous rotation of the gobo wheel from slow to fast	193	255	76%	100%			
15	14	break up gobo selection (effect activated from channel 23/22)	step	no gobo	0	10	0%	4%
			proportional	from gobo 1 to gobo 7 through 360°	11	192	4%	75%
				gobo 1 (central value 33)				
gobo 2 (central value 55)								
gobo 3 (central value 78)								
gobo 4 (central value 101)								
gobo 5 (central value 124)								
gobo 6 (central value 147)								
gobo 7 (central value 169)								
proportional	continuous rotation of the gobo wheel from slow to fast	193	255	76%	100%			
Note 4 : gobo selection movement will vary according to the selection made for channel 23 (16 bit) / 22 (8 bit)								
16	15	effects selection	step	no effect	0	10	0%	4%
			proportional	frost effect	11	92	4%	36%
			step	effect 1	93	174	36%	68%
effect 2	175	255		69%	100%			
17	16	effect index-rotation through 360°	step	no effect	0	10	0%	4%
			proportional	proportional indexing of the effect through 360°	11	127	4%	50%
			proportional	continuous rotation of the effect in a clockwise direction with proportional control over decreasing speed	128	190	50%	75%
			step	effect stop	191	192	75%	75%
			proportional	continuous rotation of the effect in a counter-clockwise direction with proportional control over increasing speed	193	255	76%	100%
18	17	color wheel selection	step	white beam	0	5	0%	2%
				color 1	6	14	2%	5%
				color 2	15	22	6%	9%
				color 3	23	30	9%	12%
				color 4	31	38	12%	15%
			color 5	39	45	15%	18%	
			proportional	from white beam to white beam (color 1–2–3–4–5), proportional positions	46	127	18%	50%
rainbow effect from fast to slow in a counter-clockwise direction	128	190	50%	75%				
rainbow effect from slow to fast in a clockwise direction	191	255	75%	100%				
19	18	cyan	proportional	proportional control of the percentage of cyan color in the light beam from 0 to 100%	0	255	0%	100%
20	19	magenta	proportional	proportional control of the percentage of magenta color in the light beam from 0 to 100%	0	255	0%	100%
21	20	yellow	proportional	proportional control of the percentage of yellow color in the light beam from 0 to 100%	0	255	0%	100%

channel		function	type of control	effect	decimal		percentage	
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22	21	zap effect (effect varies depending upon channel 7 strobe)	step	no effect	0	- 10	0%	- 4%
				zap effect synchronised with the strobe effect, speed and mode selected by strobe channel 7	11	- 30	4%	- 12%
				zap effect, flicker and speed adjustable, mode selected by strobe channel 7	31	- 249	12%	- 98%
				black-out of the light beam during PAN/TILT movement, gobos wheel, colors wheel and effects wheel	250	- 255	98%	- 100%
22	21	halogen dimmer curve (effect varies depending upon channel 6 dimmer)	step	standard dimmer (mechanical)	0	- 10	0%	- 4%
				the mechanical dimmer works in sync with the dimming of the lamp	11	- 30	4%	- 12%
				the mechanical dimmer has no effect and is active only that the halogen lamp (variable color temperature)	31	- 249	12%	- 98%
				black-out of the light beam during PAN/TILT movement, gobos wheel, colors wheel and effects wheel	250	- 255	98%	- 100%
Note 5 : when using halogen lamp, channel 22 (16 bit) / 21 (8 bit), allow the selection of the curve which can be a combination of the characteristic dimming lamp and/or mechanical dimmer								
23	22	gobo effect selection	step	no effect	0	- 10	0%	- 4%
				proportional movement of the gobo wheels through 360°	11	- 133	4%	- 52%
				proportional-stepmovement of the gobo wheels through 360°	134	- 255	53%	- 100%
24	23	lamp on/off and motors reset	step	park, no function	0	- 10	0%	- 4%
				lamp off	11	- 29	4%	- 11%
				pan and tilt reset (once only)	30	- 65	12%	- 25%
				all motor reset except black out pan and tilt (once only)	66	- 100	26%	- 39%
				all motor reset except black out (once only)	101	- 135	40%	- 53%
				reset of all the motors (once only)	136	- 170	53%	- 67%
				LCD display off	171	- 185	67%	- 73%
				LCD display on	186	- 199	73%	- 78%
				lamp on – standard focus	200	- 228	78%	- 89%
lamp on – autofocus	229	- 255	90%	- 100%				
Note 6: the display panel may be used to disable the switching off of the lamp via DMX								
Note 7: turning off the lamp and all reset functions are delayed by 6 seconds to prevent accidental activation								
Note 8: the lamp on/off function can only be effected if an opposite level is set								
Projector: InfinitySpot M			Table name: DMX 512 functions					
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