

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 18/17)	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%
7	7	strobe, shutter-profile	step	shutter closed (zap off)	0	9	0%	4%
			proportional	strobe effect with variable speed from slow to fast	10	66	4%	26%
			proportional	proportional control of the shutter-profile, from open to closed	67	187	26%	73%
			proportional	random strobe effect, non-synchronised, variable speed from slow to fast	188	244	74%	96%
			step	shutter open (zap off)	245	255	96%	100%
Note 1 : channel 7 will vary according to the selection made for channel 18 (16 bit) / 17 (8 bit)								
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 2: 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	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%			
9	9	aerial gobo selection (effect activated from channel 19/18)	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)								
continuous rotation of the gobo wheel from slow to fast	193	255	76%	100%				
Note 3 : channel 9 will vary according to the selection made for channel 19 (16 bit) / 18 (8 bit)								
10	10	indexing gobo rotation through 360°	step	no effect	0	10	0%	4%
			proportional	proportional indexing of the gobos through 360°	11	255	4%	100%
11		fine indexing of the gobos 16 bit	proportional	fine indexing of the gobo	0	255	0%	100%
12	11	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 4 : when channel 10 is set to a level between 0 and 10, gobo rotation does not effect indexing, the gobo stops instantly								

channel		function	type of control	effect	decimal		percentage		
16 bit	8 bit								
13	12	frost	proportional	gradual adjustment of frost filter from 0 to 100%	0	255	0%	100%	
13	12	frost	step	no effect	0	10	0%	4%	
				frost selection 1st level	11	151	4%	59%	
				frost selection 2nd level	152	255	60%	100%	
Note 5: frost channel will vary according to the selection made from display function									
14	13	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 to white beam (color 1–2–3–4–5), proportional positions	46	127	18%	50%
					rainbow effect from fast to slow in an clockwise direction	128	190	50%	75%
					rainbow effect from slow to fast in a counter-clockwise direction	191	255	75%	100%
15	14	cyan	proportional	proportional control of the percentage of cyan color in the light beam from 0 to 100%	0	255	0%	100%	
16	15	magenta	proportional	proportional control of the percentage of magenta color in the light beam from 0 to 100%	0	255	0%	100%	
17	16	yellow	proportional	proportional control of the percentage of yellow color in the light beam from 0 to 100%	0	255	0%	100%	
18	17	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, speed and mode selected by strobe channel 7	31	128	12%	50%	
				proportional movement of the strobo profile	129	249	51%	98%	
				black-out of the light beam during PAN/TILT movement, gobos wheel and color wheel	250	255	98%	100%	
18	17	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 6: when using halogen lamp, channel 18 (16 bit) / 17 (8 bit), allow the selection of the curve which can be a combination of the characteristic dimming lamp and/or mechanical dimmer									
19	18	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%	
20	19	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	200	255	78%	100%					
Note 7: the display panel may be used to disable the switching off of the lamp via DMX									
Note 8: turning off the lamp and all reset functions are delayed by 6 seconds to prevent accidental activation									
Note 9: the lamp on/off function can only be effected if an opposite level is set									
Projector: Infinity ACL M			Table name: DMX 512 functions						
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