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	tracking mode (slow)	248	-	255	97%	-	100%
6	6	**dimmer**	proportional	gradual adjustment of luminous intensity from 0 to 100%	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%
			step	shutter open (zap off)	245	-	255	96%	-	100%
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 17 (16 bit) / 16 (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 18/17)	step	no gobo	0	-	10	0%	-	4%
			proportional	from gobo 1 to gobo 7 through 360°	11	-	192	4%	-	75%
				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 18 (16 bit) / 17 (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	**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%
14	13	**cyan**	proportional	proportional control of the percentage of cyan color in the light beam from 0 to 100%	0	-	255	0%	-	100%
15	14	**magenta**	proportional	proportional control of the percentage of magenta color in the light beam from 0 to 100%	0	-	255	0%	-	100%
16	15	**yellow**	proportional	proportional control of the percentage of yellow color in the light beam from 0 to 100%	0	-	255	0%	-	100%
17	16	**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, colors wheel and effects wheel	250	-	255	98%	-	100%
18	17	**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%
19	18	**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 exept dimmer, pan and tilt (once only)	66	-	100	26%	-	39%
				all motor reset exept dimmer (once only)	101	-	135	40%	-	53%
				reset of all the motors (once only)	136	-	170	53%	-	67%
				lamp on	171	-	255	67%	-	100%

Note 5: the display panel may be used to disable the switching off of the lamp via DMX

Note 6: turning off the lamp and all reset functions are delayed by 6 seconds to prevent accidental activation

Note 7: the lamp on/off function can only be effected if an opposite level is set

Projector: ***Infinity ACL S***	**Table name: DMX 512 functions**	
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