channel 16 bit	channel 8 bit	function	type of control	effect	decimal	percentage
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 22 (16 bit) / 21 (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**	**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 3 : channel 11 will vary according to the selection made for channel 23 (16 bit) / 22 (8 bit)						
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 4: when channel 12 is set to a level between 0 and 10, gobo rotation does not effect indexing, the gobo stops instantly						

channel 16 bit	channel 8 bit	function	type of control	effect	decimal	percentage
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° 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 5 : channel 15 (16 bit) / 14 (8 bit) 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%
				effect 1	11 - 92	4% - 36%
				effect 2	93 - 174	36% - 68%
				effect 3	175 - 255	69% - 100%
17	16	**effect index-rotation**	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	effetto 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 to white beam (color 1–2–3–4–5), proportional positions	46 - 127	18% - 50%
				rainbow effect from fast to slow in an 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%
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, 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%
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 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%
				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 S***			**Table name: DMX 512 functions**			
Tabella numero: 272			**Edition: 1**	**Date: 17/01/2009**		