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%
			step	shutter open (zap off)	245	255	96%	100%
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)

16 bit	8 bit	function	type of control	effect	decimal		percentage	
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		
16 bit	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 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

channel		function	type of control	effect	decimal			percentage		
16 bit	8 bit									
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 4 : 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		
16 bit	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 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%

channel		function	type of control	effect	decimal			percentage		
16 bit	**8 bit**									
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

channel		function	type of control	effect	decimal			percentage		
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 black out pan and tilt (once only)	66	-	100	26%	-	39%
				all motor reset exept 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

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