

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	shutter, strobe 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	focus	proportional	proportional control of focus	0	- 255	0%	- 100%
10	10	zoom	proportional	proportional control of zoom from wide beam to narrow	0	- 255	0%	- 100%
11	11	rotating gobo selection on wheel 1 (closest to lamp) (STRD standard)	step	no gobo	0	- 10	0%	- 4%
				gobo 1	11	- 40	4%	- 16%
				gobo 2	41	- 70	16%	- 27%
				gobo 3	71	- 100	28%	- 39%
				gobo 4	101	- 130	40%	- 51%
				gobo 5	131	- 160	51%	- 63%
				gobo 6	161	- 192	63%	- 75%
			proportional	continuous rotation of the gobo wheel from slow to fast	193	- 255	76%	- 100%
11	11	rotating gobo selection on wheel 1 (SPEC special)	step	no gobo	0	- 10	0%	- 4%
			proportional	proportional positioning of gobo wheel 1 at 360°	11	- 192	4%	- 75%
			proportional	continuous rotation of gobo wheel from slow to fast	193	- 255	76%	- 100%
Note 2: depending on the gobo selection on display panel (standard STRD or proportional SPEC) the gobo wheel has a different function								

channel		function	type of control	effect	decimal		percentage	
16 bit	8 bit							
12	12	indexing gobo rotation on wheel 1 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 (gobo wheel 1)	0	- 255	0%	- 100%
14	13	gobo rotation on wheel 1	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 at 16bit or channel 13 at 8bit) does not effect indexing, the gobo stops instantly								
15	14	rotating gobo selection on wheel 2 (STRD standard)	step	no gobo	0	- 10	0%	- 4%
				gobo 1	11	- 40	4%	- 16%
				gobo 2	41	- 70	16%	- 27%
				gobo 3	71	- 100	28%	- 39%
				gobo 4	101	- 130	40%	- 51%
				gobo 5	131	- 160	51%	- 63%
			gobo 6	161	- 192	63%	- 75%	
proportional	continuous rotation of the gobo wheel from slow to fast	193	- 255	76%	- 100%			
15	14	rotating gobo selection on wheel 2 (SPEC special)	step	no gobo	0	- 10	0%	- 4%
			proportional	proportional positioning of gobo wheel 2 at 360°	11	- 192	4%	- 75%
			proportional	continuous rotation of gobo wheel from slow to fast	193	- 255	76%	- 100%
Note 4: depending on the gobo selection on display panel (standard STRD or proportional SPEC) the gobo wheel has a different function								
16	15	indexing gobo rotation on wheel 2 through 360°	step	no effect	0	- 10	0%	- 4%
			proportional	proportional indexing of the gobos through 360°	11	- 255	4%	- 100%
17		fine indexing of the gobos 16 bit	proportional	fine indexing of the gobo (gobo wheel 2)	0	- 255	0%	- 100%
18	16	gobo rotation on wheel 2	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 5: when channel 16 or 15 (16bit or 8bit) is set to a level between 0 and 10, gobo rotation (channel 18 at 16bit or channel 16 at 8bit) does not affect indexing, the gobo stops instantly								
19	17	selecting frost and prisms + rotation	step	no effect	0	- 10	0%	- 4%
			proportional	insert frost filter in the optical path	11	- 99	4%	- 39%
			step	prism 1	100	- 105	39%	- 41%
			proportional	continuous rotation of prism 1 in a counter-clockwise direction, with proportional control over speed from maximum to minimum	106	- 137	42%	- 54%
			step	stop rotation prism 1	138	- 142	54%	- 56%
			proportional	continuous rotation of prism 1 in a clockwise direction, with proportional control over speed from minimum to maximum	143	- 174	56%	- 68%
			step	stop rotation prism 1	175	- 179	69%	- 70%
			step	prism 2	180	- 184	71%	- 72%
			proportional	continuous rotation of prism 2 in a counter-clockwise direction, with proportional control over speed from maximum to minimum	185	- 216	73%	- 85%
			step	stop rotation prism 2	217	- 221	85%	- 87%
			proportional	continuous rotation of prism 2 in a clockwise direction, with proportional control over speed from minimum to maximum	222	- 255	87%	- 100%

channel		function	type of control	effect	decimal		percentage	
16 bit	8 bit							
20	18	selecting saturated colours from the colour wheel	step	no colour, white beam	0	- 5	0%	- 2%
				colour 1	6	- 14	2%	- 5%
				colour 2	15	- 22	6%	- 9%
				colour 3	23	- 30	9%	- 12%
				colour 4	31	- 38	12%	- 15%
			colour 5	39	- 45	15%	- 18%	
			proportional	from colour 5 to colour 1, proportional positioning	46	- 127	18%	- 50%
				rainbow effect from fast to slow in an anticlockwise direction	128	- 190	50%	- 75%
rainbow effect from slow to fast in a clockwise direction	191	- 255		75%	- 100%			
21	19	cyan	proportional	proportional control of the percentage of cyan colour in the light beam from 0 to 100%	0	- 255	0%	- 100%
22	20	magenta	proportional	proportional control of the percentage of magenta colour in the light beam from 0 to 100%	0	- 255	0%	- 100%
23	21	yellow	proportional	proportional control of the percentage of yellow colour in the light beam from 0 to 100%	0	- 255	0%	- 100%
24	22	conversion filters	step	no colour temperature correction, open beam 7000K	0	- 58	0%	- 23%
				control of the colour temperature of the light beam to 6000K	59	- 106	23%	- 42%
				control of the colour temperature of the light beam to 5200K	107	- 154	42%	- 60%
				control of the colour temperature of the light beam to 4200K	155	- 202	61%	- 79%
				control of the colour temperature of the light beam to 3200K	203	- 250	80%	- 98%
				control of the colour temperature of the light beam to 10000K	251	- 255	98%	- 100%
25	23	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	- 249	12%	- 98%
				black-out of the light beam during PAN/TILT movement, colours and gobos	250	- 255	98%	- 100%
26	24	lamp on/off, all motor resets	step	park, no function	0	- 10	0%	- 4%
				lamp off	11	- 29	4%	- 11%
				pan and tilt reset (once only)	30	- 65	12%	- 25%
				reset all motors except black-out, pan and tilt (once only)	66	- 100	26%	- 39%
				reset all motors except black-out (once only)	101	- 135	40%	- 53%
				reset all motors (once only)	136	- 170	53%	- 67%
				lamp on	171	- 255	67%	- 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: coemar i Spot eXtreme				Table name: DMX 512 functions				
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