

channel	function	type of control	effect	decimal	percentage
1	X axis, base movement (pan)	proportional	control of the pan movement of the beam of light via proportional rotation of the base motor	0 - 255	0% - 100%
2	X axis, fine base movement (pan)	proportional	fine control of the pan movement of the beam of light via proportional rotation of the base motor	0 - 255	0% - 100%
3	Y axis, yoke movement (tilt)	proportional	control of the tilt movement of the beam of light via proportional rotation of the yoke motor	0 - 255	0% - 100%
4	Y axis, fine yoke movement (tilt)	proportional	fine control of the tilt movement of the beam of light via proportional rotation of the yoke motor	0 - 255	0% - 100%
5	movement speed	step	standard (fast)	0 - 10	0% - 4%
		step	ultra fast movement (ideal for positioning during programming)	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	dimmer	step	closed	0 - 7	0% - 3%
		proportional	adjust output intensity from 0 to 100%	8 - 255	3% - 100%
7	shutter, strobe	step	shutter closed	0 - 9	0% - 4%
		proportional	variable speed strobing effect, from slow to fast	10 - 66	4% - 26%
		step	shutter open	67 - 68	26% - 27%
		proportional	sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast)	69 - 125	27% - 49%
		step	shutter open	126 - 127	49% - 50%
		proportional	sequenced pulse effect, fast closing, slow opening (variable speed pulsing, from fast to slow)	128 - 184	50% - 72%
		step	shutter open	185 - 187	73% - 73%
		proportional	random strobe effect with variable speed from slow to fast	188 - 244	74% - 96%
8	iris diaphragm (LIN-Linear)	step	open	0 - 9	0% - 4%
		proportional	from maximum opening to minimum opening	10 - 255	4% - 100%
<b>NOTE 1: the iris diaphragm has different effects depending upon the settings made when selecting IRIS on the display (linear LIN or with internal effects PULS)</b>					
8	iris diaphragm (with internal effects PULS)	step	open	0 - 9	0% - 4%
		proportional	from maximum open to minimum	10 - 124	4% - 49%
		step	minimum diameter	125 - 129	49% - 51%
		proportional	pulse effect 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%
<b>NOTE 2: the iris focus lense is automatically inserted into the light beam when the iris channel is set to above 9 and no gobo has been selected; this automated feature can be disenabled by taking channel 22 to a level between 171 and 209</b>					
9	step zoom channel 22 is between 171 and 209	step	iris focus	0 - 85	0% - 33%
			21° lense	86 - 171	34% - 67%
			25° lense	172 - 255	67% - 100%
9	step zoom channel 22 is between 250 and 255	step	21° lense	0 - 127	0% - 50%
			25° lense	128 - 255	50% - 100%
10	focus	proportional	proportional control of focus	0 - 255	0% - 100%

channel	function	type of control	effect	decimal	percentage
11	selecting rotating gobos wheel 1 (wheel closest to the lamp)	step	no gobo	0 - 10	0% - 4%
		step or proportional selectable via channel 20	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%		
12	indexing the rotating gobos (wheel 1) through 360°	step	no effect	0 - 10	0% - 4%
		proportional	proportional positioning of the gobo through 360°	11 - 255	4% - 100%
<b>NOTE 3: when channel 12 is set to between 0 and 10, gobo rotation (channel 13) has no effect on indexing, the gobo stops instantaneously</b>					
13	gobo rotation on wheel 1 and fine indexing control	proportional	fine indexing / accurate positioning of the gobo (if channel 12 is above a level of 10)	0 - 100	0% - 39%
		proportional	continuous rotation of the gobo in a counterclockwise direction with a proportional decrease in speed	101 - 176	40% - 69%
		step	gobo stop	177 - 179	69% - 70%
		proportional	continuous rotation of the gobo in a clockwise direction with a proportional increase in speed	180 - 255	71% - 100%
14	selecting rotating gobos on wheel 2	step	no gobo	0 - 10	0% - 4%
		step or proportional selectable via channel 20	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	indexing the rotating gobos (wheel 2) through 360°	step	no effect	0 - 10	0% - 4%
		proportional	proportional positioning of the gobo through 360°	11 - 255	4% - 100%
<b>NOTE 4: when channel 15 is set to between 0 and 10, gobo rotation (channel 16) has no effect on indexing, the gobo stops instantaneously</b>					
16	gobo rotation on wheel 2 and fine indexing control	proportional	fine indexing / accurate positioning of the gobo (if channel 15 is above a level of 10)	0 - 100	0% - 39%
		proportional	continuous rotation of the gobo in a clockwise direction with a proportional decrease in speed	101 - 176	40% - 69%
		step	gobo stop	177 - 179	69% - 70%
		proportional	continuous rotation of the gobo in a counterclockwise direction with a proportional increase in speed	180 - 255	71% - 100%
17	selecting and rotating the prism	step	no effect	0 - 10	0% - 4%
		step	prism inserted into the light beam	11 - 20	4% - 8%
		proportional	continuous rotation of the prism in a clockwise direction with a proportional speed from maximum to minimum	21 - 136	8% - 53%
		step	stop the prism rotation	137 - 139	54% - 55%
		proportional	continuous rotation of the prism in a counterclockwise direction with a proportional speed from minimum to maximum	140 - 255	55% - 100%

channel	function	type of control	effect	decimal	percentage
18	colour wheel 1 (closest colour wheel to lamp)	step	no colour, white beam	0 - 7	0% - 3%
		step or proportional selectable via channel 20	colour 1	8 - 27	3% - 11%
			colour 2	28 - 47	11% - 18%
			colour 3	48 - 67	19% - 26%
			colour 4	68 - 87	27% - 34%
			colour 5	88 - 107	35% - 42%
			colour 6	108 - 127	42% - 50%
		proportional	rainbow effect in a clockwise direction from fast to slow	128 - 190	50% - 75%
		step	no rotation	191 - 192	75% - 75%
proportional	rainbow effect in a counterclockwise direction from slow to fast	193 - 255	76% - 100%		
19	colour wheel 2	step	no colour, white beam	0 - 7	0% - 3%
		step or proportional selectable via channel 20	colour 1	8 - 27	3% - 11%
			colour 2	28 - 47	11% - 18%
			colour 3	48 - 67	19% - 26%
			colour 4	68 - 87	27% - 34%
			colour 5	88 - 107	35% - 42%
			colour 6	108 - 127	42% - 50%
		proportional	rainbow effect in a counterclockwise direction from fast to slow	128 - 190	50% - 75%
		step	no rotation	191 - 192	75% - 75%
proportional	rainbow effect in a clockwise direction from slow to fast	193 - 255	76% - 100%		
20	gobo and colour positioning	step	gobos and colours are centred in the optical path	0 - 10	0% - 4%
			proportional positioning of gobos in the optical path	11 - 125	4% - 49%
			proportional positioning of colours in the optical path	126 - 239	49% - 94%
			proportional positioning of both gobos and colours in the optical path	240 - 255	94% - 100%
21	black-out activation synchronised with movement, colour and gobo selection	step	no effect	0 - 249	0% - 98%
			black-out of the beam light when PAN/TILT movement occurs or when colours and/or gobos change	250 - 255	98% - 100%
22	lamp on/off, resetting motors and inhibiting automatic lense selection	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 of all the motors with the exception of the dimmer, pan and tilt (once only)	66 - 100	26% - 39%
			reset of all the motors with the exception of the dimmer (once only)	101 - 135	40% - 53%
			reset of all the motors (once only)	136 - 170	53% - 67%
			disenables the automatic insertion of the iris lense (fans and lamp do not change functionality)	171 - 209	67% - 82%
			fans at maximum speed (only when lamp on)	210 - 249	82% - 98%
			lamp on, fans off (if internal temperature allows)	250 - 255	98% - 100%
<b>Note 5: the display panel may be used to disable the switching off of the lamp via DMX</b>					
<b>Note 6: turning off the lamp and all the reset functions are delayed by 6 seconds to prevent accidental activation</b>					
<b>Note 7: lamp On/Off function and fan status can be modified only if an opposite level is set</b>					
Projector: coemar i Spot 575 MB			Table name: DMX 512 functions		
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