

| 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% |
| 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) | | | | | |
| 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% |
| 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 | | | | | |
| 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% |

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| 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% |
| 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 | | | | | |
| 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% |
| 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 | | | | | |
| 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% |

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| 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% |
| 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 the reset functions are delayed by 6 seconds to prevent accidental activation | | | | | |
| Note 7: lamp On/Off function and fan status can be modified only if an opposite level is set | | | | | |
| Projector: coemar i Spot 575 MB | | | Table name: DMX 512 functions | | |
| Table number: 224 | | Edition: 0 | Date: 11/05/2004 | | |