

| channel | function | type of control | effect | decimal | percentage |
|---------|--|-----------------|--|-----------|------------|
| 1 | Pan (X axis) movement, | proportional | coarse (8 bit) positioning of pan | 0 - 255 | 0% - 100% |
| 2 | Pan (X axis) movement, fine | proportional | fine (16 bit) positioning of pan | 0 - 255 | 0% - 100% |
| 3 | Tilt (Y axis) movement, | proportional | coarse (8 bit) positioning of tilt | 0 - 255 | 0% - 100% |
| 4 | Tilt (Y axis) movement, fine | proportional | fine (16 bit) positioning of tilt | 0 - 255 | 0% - 100% |
| 5 | movement speed | step | standard | 0 - 10 | 0% - 4% |
| | | proportional | variable speed from slow to fast ("M" speed) | 11 - 200 | 4% - 78% |
| | | step | fast movement (ideal for positioning during programming) | 201 - 255 | 79% - 100% |
| 6 | dimmer | proportional | from closed to open | 0 - 255 | 0% - 100% |
| 7 | blackout, ZAP strobe effect (dependent upon level set on channel 26) | step | blackout closed (zap off) | 0 - 9 | 0% - 4% |
| | | proportional | variable speed strobing effect, from slow to fast | 10 - 66 | 4% - 26% |
| | | step | blackout open (zap off) | 67 - 68 | 26% - 27% |
| | | proportional | sequenced pulse effect, slow closing, fast opening (Speed variable from slow to fast) | 69 - 125 | 27% - 49% |
| | | step | blackout open (zap off) | 126 - 127 | 49% - 50% |
| | | proportional | sequenced pulse effect, fast closing, slow opening (Speed variable from fast to slow) | 128 - 184 | 50% - 72% |
| | | step | blackout open (zap off) | 185 - 187 | 73% - 73% |
| | | proportional | random strobe effect with variable speed from slow to fast / (shutter / zap or combination, selectable via channel 26) | 188 - 244 | 74% - 96% |
| 8 | iris | step | open | 0 - 9 | 0% - 4% |
| | | proportional | Variable from maximum to minimum aperture | 10 - 124 | 4% - 49% |
| | | step | minimum diameter | 125 - 129 | 49% - 51% |
| | | proportional | pulse effect with variable rate from minimum to maximum | 130 - 248 | 51% - 97% |
| | | step | open | 249 - 255 | 98% - 100% |
| 9 | focus | proportional | variable focus | 0 - 255 | 0% - 100% |
| 10 | zoom | proportional | variable zoom from wide to narrow beam | 0 - 255 | 0% - 100% |
| 11 | rotating gobo selection on wheel 1 (first wheel of paired morphing gobo wheel set- optically the second wheel from the lamp) | step | no gobo | 0 - 10 | 0% - 4% |
| | | step | gobo 1 | 11 - 51 | 4% - 20% |
| | | step | gobo 2 | 52 - 92 | 20% - 36% |
| | | step | gobo 3 | 93 - 132 | 36% - 52% |
| | | step | gobo 4 | 133 - 173 | 52% - 68% |
| | | step | gobo 5 | 174 - 214 | 68% - 84% |
| | | step | gobo 6 | 215 - 255 | 84% - 100% |
| 12 | indexing gobo rotation on wheel 1: 0 - 360° | step | no effect | 0 - 10 | 0% - 4% |
| | | proportional | index positioning of the gobo from 0 to 360° | 11 - 255 | 4% - 100% |
| 13 | gobo rotation wheel 1 | step | no effect | 0 - 10 | 0% - 4% |
| | | proportional | continuous clockwise rotation of the gobo with speed control from maximum to minimum | 11 - 130 | 4% - 51% |
| | | step | gobo stop | 131 - 135 | 51% - 53% |
| | | proportional | continuous rotation of the gobo in an anti-clockwise direction, speed control from maximum to minimum | 136 - 255 | 53% - 100% |
| 14 | rotating gobo selection on wheel 2 (second wheel of paired morphing gobo wheel set- optically the third wheel from the lamp) | step | no gobo | 0 - 10 | 0% - 4% |
| | | step | gobo 1 | 11 - 51 | 4% - 20% |
| | | step | gobo 2 | 52 - 92 | 20% - 36% |
| | | step | gobo 3 | 93 - 132 | 36% - 52% |
| | | step | gobo 4 | 133 - 173 | 52% - 68% |
| | | step | gobo 5 | 174 - 214 | 68% - 84% |
| | | step | gobo 6 | 215 - 255 | 84% - 100% |
| 15 | indexing gobo rotation on wheel 2: 0 - 360° | step | no effect | 0 - 10 | 0% - 4% |
| | | proportional | index positioning of the gobo on wheel 2 through 360° | 11 - 255 | 4% - 100% |
| 16 | gobo rotation wheel 2 | step | no effect | 0 - 10 | 0% - 4% |
| | | proportional | continuous clockwise rotation of gobo with speed control from maximum to minimum | 11 - 130 | 4% - 51% |
| | | step | gobo stop | 131 - 135 | 51% - 53% |
| | | proportional | continuous counter-clockwise rotation of gobo with speed control from minimum to maximum | 136 - 255 | 53% - 100% |
| 17 | effect selection (it can be either a gobo wheel or an effect shaping function- optically the first wheel from the lamp) | step | no effect | 0 - 10 | 0% - 4% |
| | | step | effect 1 | 11 - 51 | 4% - 20% |
| | | step | effect 2 | 52 - 92 | 20% - 36% |
| | | step | effect 3 | 93 - 132 | 36% - 52% |
| | | step | effect 4 | 133 - 173 | 52% - 68% |
| | | step | effect 5 | 174 - 214 | 68% - 84% |
| | | step | effect 6 | 215 - 255 | 84% - 100% |

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| 18 | effects rotation | step | no effect | 0 - 10 | 0% - 4% |
| | | proportional | index positioning of the effect through 360° | 11 - 128 | 4% - 50% |
| | | proportional | continuous clockwise rotation of effect with speed control from maximum to minimum | 129 - 188 | 51% - 74% |
| | | step | stop rotation of effect | 189 - 193 | 74% - 76% |
| | | proportional | continuous counter-clockwise rotation of effect with speed control from minimum to maximum | 194 - 255 | 76% - 100% |
| 19 | selecting and rotating the prisms | step | no prism | 0 - 10 | 0% - 4% |
| | | step | prism 1 | 11 - 20 | 4% - 8% |
| | | proportional | continuous clockwise rotation of prism 1 with speed control from maximum to minimum | 21 - 67 | 8% - 26% |
| | | step | stop rotation of prism 1 | 68 - 73 | 27% - 29% |
| | | proportional | continuous counter-clockwise rotation of prism 1 with speed control from minimum to maximum | 74 - 119 | 29% - 47% |
| | | step | stop rotation of prism 1 | 120 - 123 | 47% - 48% |
| | | step | prism 2 | 124 - 134 | 49% - 53% |
| | | proportional | continuous clockwise rotation of prism 2 with speed control from maximum to minimum | 135 - 192 | 53% - 75% |
| | | proportional | continuous counter-clockwise rotation of prism 2 with speed control from minimum to maximum | 193 - 255 | 76% - 100% |
| 20 | color wheel 1 (nearest to lamp), color selection and rotation | step | no color (white beam) | 0 - 5 | 0% - 2% |
| | | step | color 1 | 6 - 15 | 2% - 6% |
| | | step | color 2 | 16 - 25 | 6% - 10% |
| | | step | color 3 | 26 - 35 | 10% - 14% |
| | | step | color 4 | 36 - 45 | 14% - 18% |
| | | proportional | from color 4 to color 1 proportional positioning of the color wheel | 46 - 127 | 18% - 50% |
| | | proportional | rainbow effect, direction from color 1 to white rotation, maximum to minimum | 128 - 191 | 50% - 75% |
| | | proportional | rainbow effect, direction of rotation from white to color 1, minimum to maximum | 192 - 255 | 75% - 100% |
| 21 | color wheel 2, color selection and rotation | step | no color (white beam) | 0 - 5 | 0% - 2% |
| | | step | color 1 | 6 - 15 | 2% - 6% |
| | | step | color 2 | 16 - 25 | 6% - 10% |
| | | step | color 3 | 26 - 35 | 10% - 14% |
| | | step | color 4 | 36 - 45 | 14% - 18% |
| | | proportional | from color 4 to color 1 proportional positioning of the color wheel | 46 - 127 | 18% - 50% |
| | | proportional | rainbow effect, direction from color 1 to white rotation, maximum to minimum | 128 - 191 | 50% - 75% |
| | | proportional | rainbow effect, direction of rotation from white to color 1, minimum to maximum | 192 - 255 | 75% - 100% |
| 22 | cyan | proportional | proportional control of the percentage of cyan colour in the light beam from 0 to 100% | 0 - 255 | 0% - 100% |
| 23 | magenta | proportional | proportional control of the percentage of magenta colour in the light beam from 0 to 100% | 0 - 255 | 0% - 100% |
| 24 | yellow | proportional | proportional control of the percentage of yellow colour in the light beam from 0 to 100% | 0 - 255 | 0% - 100% |
| 25 | CTO | proportional | proportional control of the colour temperature of the light beam (6500K to 3200K) | 0 - 255 | 0% - 100% |
| 26 | zap effect (varies effect of channel 7 strobe) | step | no effect | 0 - 10 | 0% - 4% |
| | | step | ZAP strobe effect with adjustable flash rate based upon mode selected on channel 7 | 11 - 249 | 4% - 98% |
| | | step | Black-out of the beam of light during PAN/TILT movement of the fixture or colour change | 250 - 255 | 98% - 100% |
| 27 | lamp power control in conjunction with channel 28 | proportional | adjust lamp power from minimum to maximum (~800W - 2000W) when channel 28 is between 121 - 195 | 0 - 255 | 0% - 100% |
| 28 | lamp on/off, all motors reset | step | park, no function | 0 - 10 | 0% - 4% |
| | | step | lamp off | 11 - 32 | 4% - 13% |
| | | step | pan and tilt reset (once only) | 33 - 54 | 13% - 21% |
| | | step | all motor reset except dimmer, pan and tilt (once only) | 55 - 76 | 22% - 30% |
| | | step | all motor reset except dimmer (once only) | 77 - 98 | 30% - 38% |
| | | step | reset of all the motors (once only) | 99 - 120 | 39% - 47% |
| | | step | lamp on, automated functions disabled | 121 - 194 | 47% - 76% |
| | | step | lamp on, lamp power adjustment auto-regulated | 195 - 255 | 76% - 100% |
| Note 1: when channel 12 is set at a level of between 0 and 10, gobo rotation (channel 13) will not affect indexing. The gobo will stop instantly. | | | | | |
| Note 2: when channel 15 is set at a level of between 0 and 10, gobo rotation (channel 16) will not affect indexing. The gobo will stop instantly. | | | | | |
| Note 3: the maximum achievable lamp power is adjustable via the display function MAX.P (max power) | | | | | |
| Note 4: the display panel may be used to disable the switching off of the lamp via DMX | | | | | |
| Note 5: turning off the lamp and all the reset functions are delayed by 6 seconds to prevent accidental activation | | | | | |
| Note 6: the lamp on/off function can only be effected if an opposite level is set | | | | | |
| Note 7: lamp power control (channel 27) is defeated if automated lamp power is selected (channel 28) | | | | | |
| Projector: coemar iSpot Flex | | | Table name: DMX 512 functions | | |
| Table number: 221 | | Edition: 2 | Date: 21/06/2003 | | |