

| channel | function | type of control | effect | decimal | percentage |
|---------|---|-----------------|---|-----------|------------|
| 1 | x axis, base movement (pan) | proportional | control of the movement of the beam of light by proportional rotation of the pan motor of the fixture at the base | 0 - 255 | 0% - 100% |
| 2 | x axis, fine base movement (pan) | proportional | fine control of the movement of the beam of light by proportional rotation of the pan motor of the fixture at the base | 0 - 255 | 0% - 100% |
| 3 | y axis, yoke movement (tilt) | proportional | control of the movement of the beam of light by proportional rotation of the tilt motor of the fixture at the yoke | 0 - 255 | 0% - 100% |
| 4 | y axis, fine yoke movement (tilt) | proportional | fine control of the movement of the beam of light by proportional rotation of the tilt motor of the fixture at the yoke | 0 - 255 | 0% - 100% |
| 5 | movement speed | step | standard | 0 - 10 | 0% - 4% |
| | | proportional | variable speed from slow to fast | 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, strobe zap effect, depending upon channel 20 | step | blackout closed (zap off) | 0 - 9 | 0% - 4% |
| | | proportional | synchronised 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 | 188 - 244 | 74% - 96% |
| 8 | top framing shutter | step | no effect | 0 - 9 | 0% - 4% |
| | | proportional | insertion of the framing shutter 0 - 100% | 10 - 255 | 4% - 100% |
| 9 | bottom framing shutter | step | no effect | 0 - 9 | 0% - 4% |
| | | proportional | insertion of the framing shutter 0 - 100% | 10 - 255 | 4% - 100% |
| 10 | right framing shutter | step | no effect | 0 - 9 | 0% - 4% |
| | | proportional | insertion of the framing shutter 0 - 100% | 10 - 255 | 4% - 100% |
| 11 | left framing shutter | step | no effect | 0 - 9 | 0% - 4% |
| | | proportional | insertion of the framing shutter 0 - 100% | 10 - 255 | 4% - 100% |
| 12 | control of framing shutter rotation | step | no effect | 0 - 9 | 0% - 4% |
| | | proportional | rotate framing wheel 0° - 90° | 10 - 255 | 4% - 100% |
| 13 | control of beam angle | proportional | zoom - narrow to wide | 0 - 255 | 0% - 100% |
| 14 | 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% |
| 15 | 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% |
| 16 | cyan | proportional | proportional control of cyan colour from 0 to 100% | 0 - 255 | 0% - 100% |
| | | proportional | proportional control of magenta colour from 0 to 100% | 0 - 255 | 0% - 100% |
| 17 | magenta | proportional | proportional control of magenta colour from 0 to 100% | 0 - 255 | 0% - 100% |
| 18 | yellow | proportional | proportional control of yellow colour from 0 to 100% | 0 - 255 | 0% - 100% |
| 19 | CTO | proportional | proportional control of the colour temperature (CTO) from 0 to 100% | 0 - 255 | 0% - 100% |
| 20 | zap effect (varies effect of channel 7 strobe) | step | no effect | 0 - 10 | 0% - 4% |
| | | step | zap effect with adjustable flicker, flashing speed and mode selection on channel 7, strobe | 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% |
| 21 | lamp power control in conjunction with channel 22 | proportional | adjust lamp power from minimum to maximum (~800W - 2000W) when channel 22 is between 121 - 195 | 0 - 255 | 0% - 100% |
| 22 | 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 - 76 | 13% - 30% |
| | | step | reset of all the motors (once only) | 77 - 120 | 30% - 47% |
| | | step | lamp on, automated functions disabled | 121 - 195 | 47% - 76% |
| | | step | lamp on, lamp power adjustment auto-regulated | 196 - 255 | 77% - 100% |

Note 1: the maximum achievable lamp power is adjustable via the display function MAX.P (max power)

Note 2: The display panel may be used to disable the switching off of the lamp via DMX

Note 3: turning off the lamp and all the reset functions are delayed by 6 seconds to prevent accidental activation

Note 4: the lamp on/off function can only be effected if an opposite level is set

Projector: coemar iwash Flex

Table name: DMX-512 functions

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