

| 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% |
| <b>Note 1:</b> the maximum achievable lamp power is adjustable via the display function MAX.P (max power)                 |   |                   |   |           |            |
| <b>Note 2:</b> The display panel may be used to disable the switching off of the lamp via DMX                             |   |                   |   |           |            |
| <b>Note 3:</b> turning off the lamp and all the reset functions are delayed by 6 seconds to prevent accidental activation |   |                   |   |           |            |
| <b>Note 4:</b> the lamp on/off function can only be effected if an opposite level is set                                  |   |                   |   |           |            |
| <b>Projector: coemar iwash Flex</b>   |   |                   | <b>Table name: DMX-512 functions</b>  |           |            |
| <b>Table number: 222</b>  |   | <b>Edition: 2</b> | <b>Data: 26/03/2003</b>   |           |            |