| channel 16 bit | channel 8 bit | function | type of control | effect | decimal | percentage |
|---|---|---|---|---|---|---|
| **1** | **1** | **X axis, base movement (pan) coarse** | proportional | proportional coarse control of the base motor movement | 0 - 255 | 0% - 100% |
| **2** | **2** | **X axis, base movement (pan) fine** | proportional | proportional fine control of the base motor movement | 0 - 255 | 0% - 100% |
| **3** | **3** | **Y axis, yoke movement (tilt) coarse** | proportional | proportional coarse control of the yoke motor movement | 0 - 255 | 0% - 100% |
| **4** | **4** | **Y axis, yoke movement (tilt) fine** | proportional | proportional fine control of the yoke motor movement | 0 - 255 | 0% - 100% |
| **5** | **5** | **movement speed** | step | standard (fast) | 0 - 10 | 0% - 4% |
| | | | step | ultra fast movement (best for programming positions) | 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** | **6** | **dimmer** | proportional | gradual adjustment of luminous intensity from 0 to 100% | 0 - 255 | 0% - 100% |
| **7** | **7** | **strobe, shutter and zap effect** | step | shutter closed (zap off) | 0 - 9 | 0% - 4% |
| | | | proportional | strobe effect with variable speed from slow to fast | 10 - 66 | 4% - 26% |
| | | | step | shutter open (zap off) | 67 - 68 | 26% - 27% |
| | | | proportional | sequenced pulse effect, slow closing, fast opening (with variable speed from slow to fast) | 69 - 125 | 27% - 49% |
| | | | step | shutter open (zap off) | 126 - 127 | 49% - 50% |
| | | | proportional | sequenced pulse effect, fast closing, slow opening (with variable speed from fast to slow) | 128 - 184 | 50% - 72% |
| | | | step | shutter open (zap off) | 185 - 187 | 73% - 73% |
| | | | proportional | random strobe effect, non-synchronised, variable speed from slow to fast | 188 - 244 | 74% - 96% |
| | | | step | shutter open (zap off) | 245 - 255 | 96% - 100% |
| **7** | **7** | **strobe, shutter-profile** | step | shutter closed (zap off) | 0 - 9 | 0% - 4% |
| | | | proportional | strobe effect with variable speed from slow to fast | 10 - 66 | 4% - 26% |
| | | | proportional | proportional control of the shutter-profile, from open to closed | 67 - 187 | 26% - 73% |
| | | | proportional | random strobe effect, non-synchronised, variable speed from slow to fast | 188 - 244 | 74% - 96% |
| | | | step | shutter open (zap off) | 245 - 255 | 96% - 100% |
| **Note 1 :** channel 7 will vary according to the selection made for channel 17 (16 bit) / 16 (8 bit) | | | | | | |
| **8** | **8** | **iris diaphragm** (LIN-Linear) | step | open | 0 - 9 | 0% - 4% |
| | | | proportional | from maximum to minimum aperture | 10 - 255 | 4% - 100% |
| **8** | **8** | **iris diaphragm** (with internal PULS effect) | step | open | 0 - 9 | 0% - 4% |
| | | | proportional | from maximum to minimum aperture | 10 - 124 | 4% - 49% |
| | | | step | minimum diameter | 125 - 129 | 49% - 51% |
| | | | proportional | pulsing 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 diaphragm operation will vary according to the selection made for IRIS on the display panel (linear LIN or with internal PULS effect) | | | | | | |
| **9** | **9** | **aerial gobo selection** (standard) | step | no gobo | 0 - 10 | 0% - 4% |
| | | | | gobo 1 | 11 - 36 | 4% - 14% |
| | | | | gobo 2 | 37 - 62 | 15% - 24% |
| | | | | gobo 3 | 63 - 88 | 25% - 35% |
| | | | | gobo 4 | 89 - 114 | 35% - 45% |
| | | | | gobo 5 | 115 - 140 | 45% - 55% |
| | | | | gobo 6 | 141 - 166 | 55% - 65% |
| | | | | gobo 7 | 167 - 192 | 65% - 75% |
| | | | proportional | continuous rotation of the gobo wheel from slow to fast | 193 - 255 | 76% - 100% |
| **9** | **9** | **aerial gobo selection** (effect activated from channel 18/17) | step | no gobo | 0 - 10 | 0% - 4% |
| | | | proportional | from gobo 1 to gobo 7 through 360°<br>gobo 1 (central value 33)<br>gobo 2 (central value 55)<br>gobo 3 (central value 78)<br>gobo 4 (central value 101)<br>gobo 5 (central value 124)<br>gobo 6 (central value 147)<br>gobo 7 (central value 169) | 11 - 192 | 4% - 75% |
| | | | | continuous rotation of the gobo wheel from slow to fast | 193 - 255 | 76% - 100% |
| **Note 3 :** channel 9 will vary according to the selection made for channel 18 (16 bit) / 17 (8 bit) | | | | | | |
| **10** | **10** | **indexing gobo rotation through 360°** | step | no effect | 0 - 10 | 0% - 4% |
| | | | proportional | proportional indexing of the gobos through 360° | 11 - 255 | 4% - 100% |
| **11** | | **fine indexing of the gobos 16 bit** | proportional | fine indexing of the gobo | 0 - 255 | 0% - 100% |
| **12** | **11** | **gobo rotation** | step | no effect | 0 - 10 | 0% - 4% |
| | | | proportional | continuous rotation of the gobo in a clockwise direction with proportional control over decreasing speed | 11 - 131 | 4% - 51% |
| | | | step | gobo stop | 132 - 134 | 52% - 53% |
| | | | proportional | continuous rotation of the gobo in a counter-clockwise direction with proportional control over increasing speed | 135 - 255 | 53% - 100% |
| **Note 4**: when channel 10 is set to a level between 0 and 10, gobo rotation does not effect indexing, the gobo stops instantly | | | | | | |

| channel | | function | type of control | effect | decimal | | | percentage | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 bit | 8 bit | | | | | | | | | |
| 13 | 12 | **color wheel selection** | step | white beam | 0 | - | 5 | 0% | - | 2% |
| | | | | color 1 | 6 | - | 14 | 2% | - | 5% |
| | | | | color 2 | 15 | - | 22 | 6% | - | 9% |
| | | | | color 3 | 23 | - | 30 | 9% | - | 12% |
| | | | | color 4 | 31 | - | 38 | 12% | - | 15% |
| | | | | color 5 | 39 | - | 45 | 15% | - | 18% |
| | | | proportional | from white to white beam (color 1–2–3–4–5), proportional positions | 46 | - | 127 | 18% | - | 50% |
| | | | | rainbow effect from fast to slow in an clockwise direction | 128 | - | 190 | 50% | - | 75% |
| | | | | rainbow effect from slow to fast in a counter-clockwise direction | 191 | - | 255 | 75% | - | 100% |
| 14 | 13 | **cyan** | proportional | proportional control of the percentage of cyan color in the light beam from 0 to 100% | 0 | - | 255 | 0% | - | 100% |
| 15 | 14 | **magenta** | proportional | proportional control of the percentage of magenta color in the light beam from 0 to 100% | 0 | - | 255 | 0% | - | 100% |
| 16 | 15 | **yellow** | proportional | proportional control of the percentage of yellow color in the light beam from 0 to 100% | 0 | - | 255 | 0% | - | 100% |
| 17 | 16 | **zap effect** (effect varies depending upon channel 7 strobe) | step | no effect | 0 | - | 10 | 0% | - | 4% |
| | | | | zap effect synchronised with the strobe effect, speed and mode selected by strobe channel 7 | 11 | - | 30 | 4% | - | 12% |
| | | | | zap effect, flicker and speed adjustable, speed and mode selected by strobe channel 7 | 31 | - | 128 | 12% | - | 50% |
| | | | | proportional movement of the strobo profile | 129 | - | 249 | 51% | - | 98% |
| | | | | black-out of the light beam during PAN/TILT movement, gobos wheel and color wheel | 250 | - | 255 | 98% | - | 100% |
| 18 | 17 | **gobo effect selection** | step | no effect | 0 | - | 10 | 0% | - | 4% |
| | | | | proportional movement of the gobo wheels through 360° | 11 | - | 133 | 4% | - | 52% |
| | | | | proportional-stepmovement of the gobo wheels through 360° | 134 | - | 255 | 53% | - | 100% |
| 19 | 18 | **lamp on/off and motors reset** | step | park, no function | 0 | - | 10 | 0% | - | 4% |
| | | | | lamp off | 11 | - | 29 | 4% | - | 11% |
| | | | | pan and tilt reset (once only) | 30 | - | 65 | 12% | - | 25% |
| | | | | all motor reset exept dimmer, pan and tilt (once only) | 66 | - | 100 | 26% | - | 39% |
| | | | | all motor reset exept dimmer (once only) | 101 | - | 135 | 40% | - | 53% |
| | | | | reset of all the motors (once only) | 136 | - | 170 | 53% | - | 67% |
| | | | | LCD display off | 171 | - | 185 | 67% | - | 73% |
| | | | | LCD display on | 186 | - | 199 | 73% | - | 78% |
| | | | | lamp on | 200 | - | 255 | 78% | - | 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 reset functions are delayed by 6 seconds to prevent accidental activation**

**Note 7: the lamp on/off function can only be effected if an opposite level is set**

| | | |
|---|---|---|
| **Projector:** ***Infinity ACL S*** | **Table name: DMX 512 functions** | |
| **Tabella numero: 272** | **Edition: 0** | **Date: 18/11/2008** |