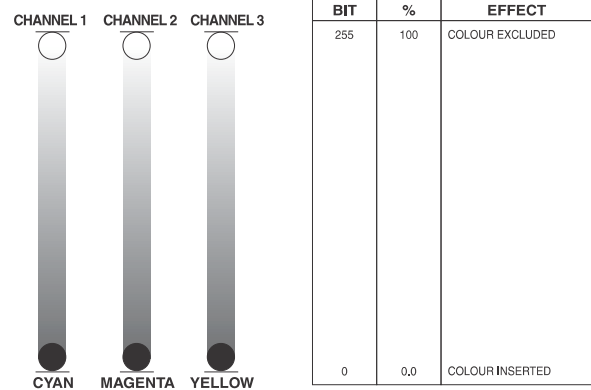


## ALPHA SPOT HPE 1200

| CHANNEL | Dmx MODALITY                                |                                             |                                             |
|---------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
|         | Option Std                                  | Option 16 b                                 | Option Extn                                 |
| 1       | CYAN <span>C y a n</span>                   | CYAN <span>C y a n</span>                   | CYAN <span>C y a n</span>                   |
| 2       | MAGENTA <span>M g n t</span>                | MAGENTA <span>M g n t</span>                | MAGENTA <span>M g n t</span>                |
| 3       | YELLOW <span>Y e l w</span>                 | YELLOW <span>Y e l w</span>                 | YELLOW <span>Y e l w</span>                 |
| 4       | C.T.O. <span>C o l T</span>                 | C.T.O. <span>C o l T</span>                 | C.T.O. <span>C o l T</span>                 |
| 5       | COLOUR WHEEL <span>C o l</span>             | COLOUR WHEEL <span>C o l</span>             | COLOUR WHEEL <span>C o l</span>             |
| 6       | STOP/STROBE <span>S h u t</span>            | STOP/STROBE <span>S h u t</span>            | STOP/STROBE <span>S h u t</span>            |
| 7       | DIMMER <span>D i m r</span>                 | DIMMER <span>D i m r</span>                 | DIMMER <span>D i m r</span>                 |
| 8       | IRIS <span>I r i s</span>                   | IRIS <span>I r i s</span>                   | IRIS <span>I r i s</span>                   |
| 9       | FIXED GOBO CHANGE <span>G o b F</span>      | FIXED GOBO CHANGE <span>G o b F</span>      | FIXED GOBO CHANGE <span>G o b F</span>      |
| 10      | ROTATING GOBO 1 CHANGE <span>G o b 1</span> | ROTATING GOBO 1 CHANGE <span>G o b 1</span> | ROTATING GOBO 1 CHANGE <span>G o b 1</span> |
| 11      | GOBO 1 ROTATION <span>R G 1</span>          | GOBO 1 ROTATION <span>R G 1</span>          | GOBO 1 ROTATION <span>R G 1</span>          |
| 12      | ROTATING GOBO 2 CHANGE <span>G o b 2</span> | ROTATING GOBO 2 CHANGE <span>G o b 2</span> | GOBO FINE 1                                 |
| 13      | GOBO 2 ROTATION <span>R G 2</span>          | GOBO 2 ROTATION <span>R G 2</span>          | ROTATING GOBO 2 CHANGE <span>G o b 2</span> |
| 14      | GRAPHIC DISC INSERT <span>G r E f</span>    | GRAPHIC DISC INSERT <span>G r E f</span>    | GOBO 2 ROTATION <span>R G 2</span>          |
| 15      | GRAPHIC DISC ROTATION <span>R G E</span>    | GRAPHIC DISC ROTATION <span>R G E</span>    | GOBO FINE 2                                 |
| 16      | PRISM/LENS CHANGE <span>P r s m</span>      | PRISM/LENS CHANGE <span>P r s m</span>      | GRAPHIC DISC INSERT <span>G r E f</span>    |
| 17      | PRISM ROTATION <span>R P r</span>           | PRISM ROTATION <span>R P r</span>           | GRAPHIC DISC ROTATION <span>R G E</span>    |
| 18      | FROST <span>F r s t</span>                  | FROST <span>F r s t</span>                  | PRISM/LENS CHANGE <span>P r s m</span>      |
| 19      | FOCUS <span>F o c u</span>                  | FOCUS <span>F o c u</span>                  | PRISM ROTATION <span>R P r</span>           |
| 20      | ZOOM <span>Z o o m</span>                   | ZOOM <span>Z o o m</span>                   | FROST <span>F r s t</span>                  |
| 21      | PAN <span>P a n</span>                      | PAN <span>P a n</span>                      | FOCUS <span>F o c u</span>                  |
| 22      | TILT <span>T i l t</span>                   | TILT <span>T i l t</span>                   | ZOOM <span>Z o o m</span>                   |
| 23      | RESET                                       | RESET                                       | PAN <span>P a n</span>                      |
| 24      | LAMP CONTROL (with option Ldmx ON)          | LAMP CONTROL (with option Ldmx ON)          | PAN-FINE                                    |
| 25      | PAN - TILT TIME (with option Vect ON)       | PAN-FINE                                    | TILT <span>T i l t</span>                   |
| 26      | COLOUR TIME (with option Vect ON)           | TILT FINE                                   | TILT FINE                                   |
| 27      | BEAM TIME (with option Vect ON)             | GOBO FINE 1                                 | RESET                                       |
| 28      | GOBO TIME (with option Vect ON)             | GOBO FINE 2                                 | LAMP CONTROL (with option Ldmx ON)          |
| 29      |                                             | PAN - TILT TIME (with option Vect ON)       | PAN - TILT TIME (with option Vect ON)       |
| 30      |                                             | COLOUR TIME (with option Vect ON)           | COLOUR TIME (with option Vect ON)           |
| 31      |                                             | BEAM TIME (with option Vect ON)             | BEAM TIME (with option Vect ON)             |
| 32      |                                             | GOBO TIME (with option Vect ON)             | GOBO TIME (with option Vect ON)             |

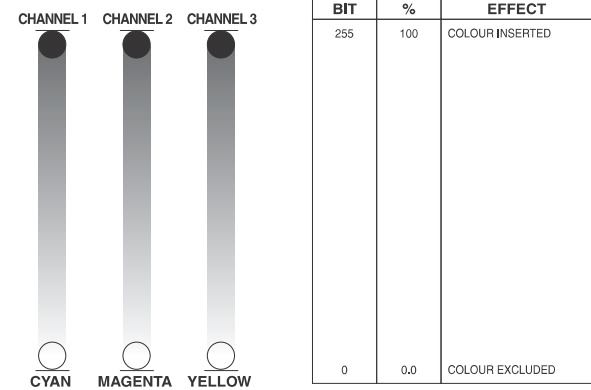
• COLOUR MIXING - channel 1 - 2 - 3

Operation with option **CMY** Off



**IMPORTANT:** The lamp dim to half power 3 seconds after the channels stay at 0% level. The lamp goes back to full power when the channels level is put higher than 0%.

Operation with option **CMY** On



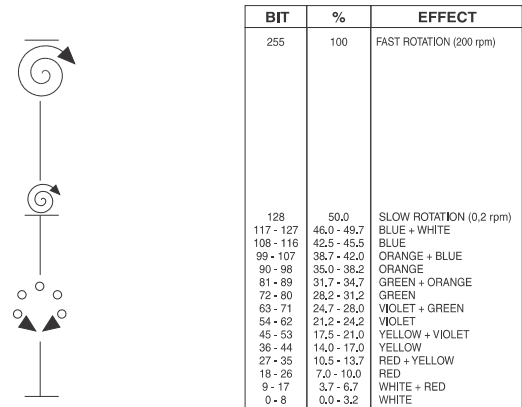
**IMPORTANT:** The lamp dim to half power 3 seconds after the channels stay at 100% level. The lamp goes back to full power when the channels level is put lower than 100%.

• C.T.O. - channel 4

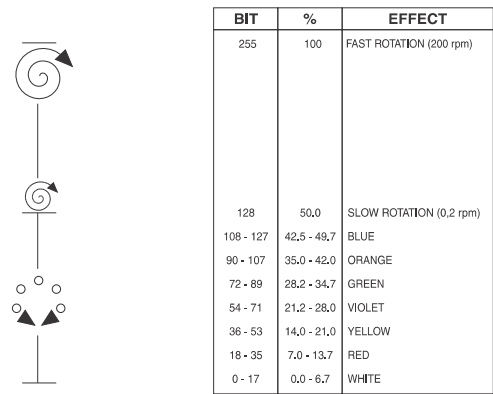
| BIT | %   | EFFECT          |
|-----|-----|-----------------|
| 255 | 100 | FILTER INSERTED |
| 0   | 0,0 | FILTER EXCLUDED |

• COLOUR WHEEL - channel 5

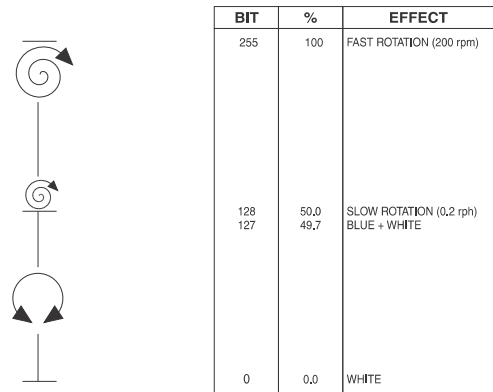
Operation with option **FulC** Off **LinC** Off **Rain** On



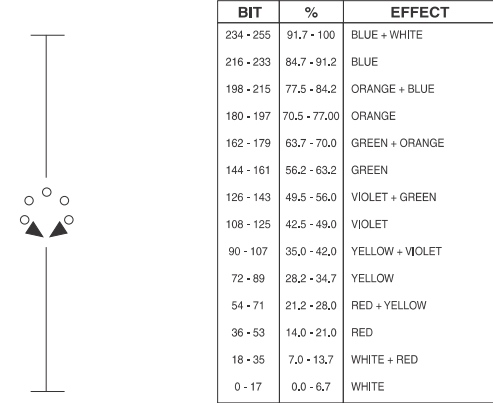
Operation with option **FulC** On **LinC** Off **Rain** On



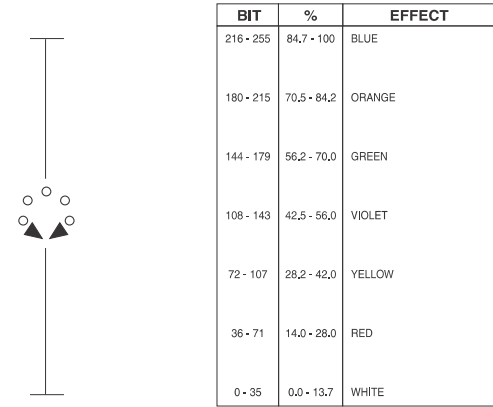
Operation with option **LinC** On **Rain** On



Operation with option **FulC** Off **LinC** Off **Rain** Off



Operation with option **FulC** On **LinC** Off **Rain** Off





| BIT | %   | EFFECT       |
|-----|-----|--------------|
| 255 | 100 | BLUE + WHITE |
| 0   | 0,0 | WHITE        |

• STOP / STROBE - channel 6



| BIT       | %           | EFFECT                     |
|-----------|-------------|----------------------------|
| 252 - 255 | 98,7 - 100  | OPEN                       |
| 239 - 251 | 93,7 - 98,2 | RANDOM FAST STROBE         |
| 226 - 238 | 88,7 - 93,2 | RANDOM MEDIUM STROBE       |
| 213 - 225 | 83,7 - 88,2 | RANDOM SLOW STROBE         |
| 208 - 212 | 81,7 - 83,2 | OPEN                       |
| 207       | 81,2        | FAST PULSATION             |
| 108       | 42,5        | SLOW PULSATION             |
| 104 - 107 | 41,0 - 42,0 | OPEN                       |
| 103       | 40,5        | FAST STROBE (12 flash/sec) |
| 4         | 1,7         | SLOW STROBE (1 flash/sec)  |
| 0 - 3     | 0,0 - 1,2   | CLOSED                     |

**IMPORTANT:** The lamp dim to half power 3 seconds after the channel stay at 0% level. The lamp goes back to full power when the channel level is put higher than 0%.

• DIMMER - channel 7



| BIT | %   | EFFECT        |
|-----|-----|---------------|
| 255 | 100 | DIMMER OPEN   |
| 0   | 0,0 | DIMMER CLOSED |

The lamp is linearly dimmed from full power to half power electronically and mechanically from half power to off.

• IRIS - channel 8



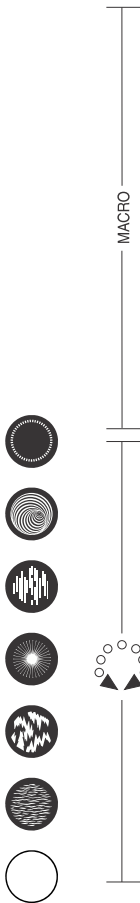
| BIT       | %           | EFFECT                       |
|-----------|-------------|------------------------------|
| 252 - 255 | 98,7 - 100  | MAXIMUM APERTURE             |
| 251       | 98,2        | FAST PULSATION, FAST CLOSING |
| 212       | 83,2        | SLOW PULSATION, FAST CLOSING |
| 211       | 83          | FAST PULSATION, FAST OPENING |
| 172       | 67,5        | SLOW PULSATION, FAST OPENING |
| 171       | 67          | FAST PULSATION               |
| 132       | 51,7        | SLOW PULSATION               |
| 128 - 131 | 50,0 - 51,2 | MAXIMUM APERTURE             |
| 0         | 0,0         | MINIMUM APERTURE             |

• FIXED GOBO CHANGE - channel 9



| BIT       | %           | EFFECT                   |
|-----------|-------------|--------------------------|
| 255       | 100         | GOBO 7 SHAKE, FAST SPEED |
| 240       | 94,0        | GOBO 7 SHAKE, SLOW SPEED |
| 239       | 93,7        | GOBO 6 SHAKE, FAST SPEED |
| 224       | 88,0        | GOBO 6 SHAKE, SLOW SPEED |
| 223       | 87,5        | GOBO 5 SHAKE, FAST SPEED |
| 208       | 81,7        | GOBO 5 SHAKE, SLOW SPEED |
| 207       | 81,2        | GOBO 4 SHAKE, FAST SPEED |
| 192       | 75,0        | GOBO 4 SHAKE, SLOW SPEED |
| 191       | 74,7        | GOBO 3 SHAKE, FAST SPEED |
| 176       | 68,0        | GOBO 3 SHAKE, SLOW SPEED |
| 175       | 68,7        | GOBO 2 SHAKE, FAST SPEED |
| 160       | 63,0        | GOBO 2 SHAKE, SLOW SPEED |
| 159       | 62,5        | FAST ROTATION            |
| 118       | 46,2        | SLOW ROTATION            |
| 114 - 117 | 44,7 - 46,0 | STOP                     |
| 113       | 44,2        | SLOW ROTATION            |
| 72        | 28,2        | FAST ROTATION            |
| 64 - 71   | 25,0 - 28,0 | GOBO 8                   |
| 56 - 63   | 22,0 - 24,7 | GOBO 7                   |
| 48 - 55   | 18,7 - 21,7 | GOBO 6                   |
| 40 - 47   | 15,5 - 18,2 | GOBO 5                   |
| 32 - 39   | 12,5 - 15,0 | GOBO 4                   |
| 24 - 31   | 9,5 - 12,0  | GOBO 3                   |
| 16 - 23   | 6,2 - 9,0   | GOBO 2                   |
| 8 - 15    | 3,2 - 6,0   | GOBO 1                   |
| 0 - 7     | 0 - 3,0     | WHITE                    |

• ROTATING GOBO 1 CHANGE - channel 10



| BIT       | %           | EFFECT                   |
|-----------|-------------|--------------------------|
| 255       | 100         | GOBO 6 SHAKE, FAST SPEED |
| 235       | 92,0        | GOBO 6 SHAKE, SLOW SPEED |
| 234       | 91,7        | GOBO 5 SHAKE, FAST SPEED |
| 214       | 84,0        | GOBO 5 SHAKE, SLOW SPEED |
| 213       | 83,7        | GOBO 4 SHAKE, FAST SPEED |
| 193       | 75,5        | GOBO 4 SHAKE, SLOW SPEED |
| 192       | 75,0        | GOBO 3 SHAKE, FAST SPEED |
| 172       | 67,5        | GOBO 3 SHAKE, SLOW SPEED |
| 171       | 67,0        | GOBO 2 SHAKE, FAST SPEED |
| 151       | 59,0        | GOBO 2 SHAKE, SLOW SPEED |
| 150       | 58,7        | GOBO 1 SHAKE, FAST SPEED |
| 130       | 51,0        | GOBO 1 SHAKE, SLOW SPEED |
| 108 - 129 | 42,5 - 50,5 | GOBO 6                   |
| 90 - 107  | 35,0 - 42,0 | GOBO 5                   |
| 72 - 89   | 28,2 - 34,7 | GOBO 4                   |
| 54 - 71   | 21,2 - 28,0 | GOBO 3                   |
| 36 - 53   | 14,0 - 21,0 | GOBO 2                   |
| 18 - 35   | 7,0 - 13,7  | GOBO 1                   |
| 0 - 17    | 0 - 6,7     | WHITE                    |

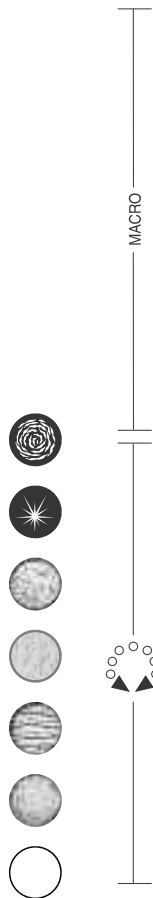
• GOBO 1 ROTATION - channel 11

| BIT       | %           | EFFECT                  |
|-----------|-------------|-------------------------|
| 255       | 100         | FAST ROTATION (120 rpm) |
| 193       | 75,5        | SLOW ROTATION (2,2 rph) |
| 191 - 192 | 74,7 - 75,0 | STOP                    |
| 190       | 74,2        | SLOW ROTATION (2,2 rph) |
| 128       | 50,0        | FAST ROTATION (120 rpm) |
| 127       | 49,7        | 540° POSITION           |
| 105       | 41,7        | 450° POSITION           |
| 84        | 33,0        | 360° POSITION           |
| 63        | 24,7        | 270° POSITION           |
| 42        | 16,2        | 180° POSITION           |
| 21        | 8,2         | 90° POSITION            |
| 0         | 0,0         | 0° POSITION             |



• ROTATING GOBO 2 CHANGE - channel: 12 (Std) - 12 (16 b) - 13 (Extn)

| BIT       | %           | EFFECT                   |
|-----------|-------------|--------------------------|
| 255       | 100         | GOBO 6 SHAKE, FAST SPEED |
| 235       | 92,0        | GOBO 6 SHAKE, SLOW SPEED |
| 234       | 91,7        | GOBO 5 SHAKE, FAST SPEED |
| 214       | 84,0        | GOBO 5 SHAKE, SLOW SPEED |
| 213       | 83,7        | GOBO 4 SHAKE, FAST SPEED |
| 193       | 75,5        | GOBO 4 SHAKE, SLOW SPEED |
| 192       | 75,0        | GOBO 3 SHAKE, FAST SPEED |
| 172       | 67,5        | GOBO 3 SHAKE, SLOW SPEED |
| 171       | 67,0        | GOBO 2 SHAKE, FAST SPEED |
| 151       | 59,0        | GOBO 2 SHAKE, SLOW SPEED |
| 150       | 58,7        | GOBO 1 SHAKE, FAST SPEED |
| 130       | 51,0        | GOBO 1 SHAKE, SLOW SPEED |
| 108 - 129 | 42,5 - 50,5 | GOBO 6                   |
| 90 - 107  | 35,0 - 42,0 | GOBO 5                   |
| 72 - 89   | 28,2 - 34,7 | GOBO 4                   |
| 54 - 71   | 21,2 - 28,0 | GOBO 3                   |
| 36 - 53   | 14,0 - 21,0 | GOBO 2                   |
| 18 - 35   | 7,0 - 13,7  | GOBO 1                   |
| 0 - 17    | 0 - 6,7     | WHITE                    |



• GRAPHIC DISC INSERT - channel: 14 (Std) - 14 (16 b) - 16 (Extn)

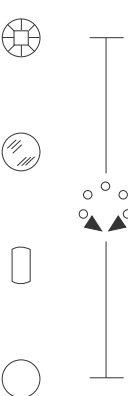
| BIT | %   | EFFECT        |
|-----|-----|---------------|
| 255 | 100 | DISC INSERTED |
| 0   | 0,0 | DISC EXCLUDED |

• GRAPHIC DISC ROTATION - channel: 15 (Std) - 15 (16 b) - 17 (Extn)



| BIT       | %           | EFFECT                  |
|-----------|-------------|-------------------------|
| 255       | 100         | FAST ROTATION (120 rpm) |
| 131       | 51,2        | SLOW ROTATION (4,4 rph) |
| 125 - 130 | 49,0 - 51,0 | STOP                    |
| 124       | 48,7        | SLOW ROTATION (4,4 rph) |
| 0         | 0,0         | FAST ROTATION (120 rpm) |

• PRISM/LENS CHANGE - channel: 16 (Std) - 16 (16 b) - 18 (Extn)



| BIT       | %           | EFFECT       |
|-----------|-------------|--------------|
| 189 - 255 | 74,0 - 100  | 9 FACE PRISM |
| 126 - 188 | 49,5 - 73,7 | LENS         |
| 63 - 125  | 24,7 - 49,0 | 2 FACE       |
| 0 - 62    | 0,0 - 24,2  | WHITE        |

• GOBO 2 ROTATION - channel: 13 (Std) - 13 (16 b) - 14 (Extn)

| BIT       | %           | EFFECT                  |
|-----------|-------------|-------------------------|
| 255       | 100         | FAST ROTATION (120 rpm) |
| 193       | 75,5        | SLOW ROTATION (2,2 rph) |
| 191 - 192 | 74,7 - 75,0 | STOP                    |
| 190       | 74,2        | SLOW ROTATION (2,2 rph) |
| 128       | 50,0        | FAST ROTATION (120 rpm) |
| 127       | 49,7        | 540° POSITION           |
| 105       | 41,7        | 450° POSITION           |
| 84        | 33,0        | 360° POSITION           |
| 63        | 24,7        | 270° POSITION           |
| 42        | 16,2        | 180° POSITION           |
| 21        | 8,2         | 90° POSITION            |
| 0         | 0,0         | 0° POSITION             |



• PRISM ROTATION - channel: 17 (Std) - 17 (16 b) - 19 (Extn)



| BIT       | %           | EFFECT                  |
|-----------|-------------|-------------------------|
| 255       | 100         | FAST ROTATION (120 rpm) |
| 193       | 75,5        | SLOW ROTATION (3 rph)   |
| 191 - 192 | 74,7 - 75,0 | STOP                    |
| 190       | 74,2        | SLOW ROTATION (3 rph)   |
| 128       | 50,0        | FAST ROTATION (120 rpm) |
| 127       | 49,7        | POSITION 540°           |
| 105       | 41,7        | POSITION 450°           |
| 84        | 33,0        | POSITION 360°           |
| 63        | 24,7        | POSITION 270°           |
| 42        | 16,2        | POSITION 180°           |
| 21        | 8,2         | POSITION 90°            |
| 0         | 0,0         | POSITION 0°             |

• FROST - channel: 18 (Std) - 18 (16 b) - 20 (Extn)



| BIT       | %           | EFFECT       |
|-----------|-------------|--------------|
| 189 - 255 | 74.0 - 100  | HEAVY FROST  |
| 126 - 188 | 49.5 - 73.7 | MEDIUM FROST |
| 63 - 125  | 24.7 - 49.0 | LIGHT FROST  |
| 0 - 62    | 0.0 - 24.2  | WHITE        |

• FOCUS - channel: 19 (Std) - 19 (16 b) - 21 (Extn)



| BIT | %   | EFFECT  |
|-----|-----|---------|
| 255 | 100 | NEAR    |
| 0   | 0.0 | DISTANT |

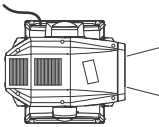
• ZOOM - channel: 20 (Std) - 20 (16 b) - 22 (Extn)



| BIT | %   | EFFECT      |
|-----|-----|-------------|
| 255 | 100 | NARROW BEAM |
| 0   | 0.0 | WIDE BEAM   |

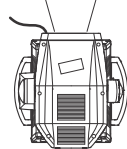
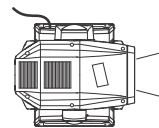
• PAN - channel: 21 (Std) - 21 (16 b) - 23 (Extn)

Operation with option Pan ⬢ Off  
(Tilt conventionally represented at 15% and option Til ⬢ Off)



| BIT | %   |
|-----|-----|
| 255 | 100 |
| 0   | 0.0 |

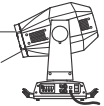
Operation with option Pan ⬢ On  
(Tilt conventionally represented at 15% and option Til ⬢ Off)



| BIT | %   |
|-----|-----|
| 255 | 100 |
| 0   | 0.0 |

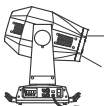
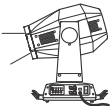
• TILT - channel: 22 (Std) - 22 (16 b) - 25 (Extn)

Operation with option Til ⬢ Off  
(Pan conventionally represented at 0% and option Pan ⬢ Off)



| BIT | %    |
|-----|------|
| 255 | 100  |
| 128 | 50.0 |
| 0   | 0.0  |

Operation with option Til ⬢ On  
(Pan conventionally represented at 0% and option Pan ⬢ Off)



| BIT | %    |
|-----|------|
| 255 | 100  |
| 128 | 50.0 |
| 0   | 0.0  |

• RESET - channel: 23 (Std) - 23 (16 b) - 27 (Extn)

| BIT        | %            | EFFECT                                                                                                                                                 |
|------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 255        | 100          | COMPLETE RESET<br>Complete reset is activated passing through the unused range and staying 5 seconds in complete reset levels.                         |
| 128<br>127 | 50,0<br>49,7 | COMPLETE RESET<br>PAN / TILT RESET<br>Pan / Tilt reset is activated passing through the unused range and staying 5 seconds in Pan / Tilt reset levels. |
| 77<br>76   | 30,0<br>29,7 | PAN / TILT RESET<br>EFFECTS RESET<br>Effects reset is activated passing through the unused range and staying 5 seconds in Effects reset levels.        |
| 26<br>25   | 10,0<br>9,7  | EFFECTS RESET                                                                                                                                          |
| 0          | 0,0          | UNUSED RANGE                                                                                                                                           |

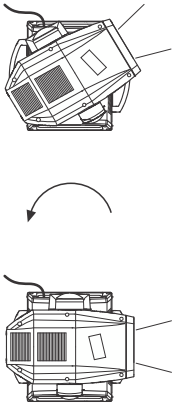
• LAMP CONTROL (only with option Ldmx On) - channel: 24 (Std) - 24 (16 b) - 28 (Extn)



| BIT           | %                  | EFFECT                                                                                                                                    |
|---------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 255           | 100                | LAMP ON (FULL POWER)<br>Lamp ignition after 5 s in full power levels.<br>Immediate transition from half to full power.                    |
| 180<br>179    | 70,5<br>70,0       | LAMP ON (FULL POWER)<br>LAMP ON (HALF POWER)<br>Immediate transition from full to half power.<br>Lamp ignition not allowed in half power. |
| 101<br>100    | 39,5<br>39,0       | LAMP ON (HALF POWER)<br>LAMP OFF<br>Lamp switch off passing through the unused range and staying 5 s in Lamp OFF levels.                  |
| 26<br>25<br>0 | 10,0<br>9,7<br>0,0 | LAMP OFF<br>UNUSED RANGE                                                                                                                  |

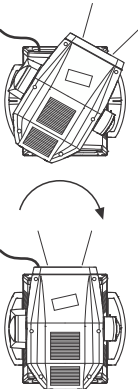
• PAN FINE - channel: 25 (16 b) - 24 (Extn)

Operation with option Pan ⬅ Off  
(Tilt conventionally represented at 15% and option Tilt ⬅ Off)



| BIT | %   |
|-----|-----|
| 255 | 100 |
| 0   | 0,0 |

Operation with option Pan ⬅ On  
(Tilt conventionally represented at 15% and option Tilt ⬅ Off)



| BIT | %   |
|-----|-----|
| 255 | 100 |
| 0   | 0,0 |

• TILT FINE - channel: 26 (16 b) - 26 (Extn)

Operation with option Tilt ⬅ Off  
(Pan conventionally represented at 0% and option Pan ⬅ Off)



| BIT | %   |
|-----|-----|
| 255 | 100 |
| 0   | 0,0 |

Operation with option Tilt ⬅ On  
(Pan conventionally represented at 0% and option Pan ⬅ Off)



| BIT | %   |
|-----|-----|
| 255 | 100 |
| 0   | 0,0 |

• GOBO 1 FINE - channel: 27 (16 b) - 12 (Extn)



| BIT | %    |
|-----|------|
| 255 | 100  |
| 127 | 50,0 |
| 0   | 0,0  |

• GOBO 2 FINE - channel: 28 (16 b) - 15 (Extn)



| BIT | %    |
|-----|------|
| 255 | 100  |
| 127 | 50,0 |
| 0   | 0,0  |

## TIMING CHANNELS

| Timing Channel  | Channel function                                        |
|-----------------|---------------------------------------------------------|
| Pan - Tilt time | Pan - Tilt - (Pan fine - Tilt fine)                     |
| Colour time     | CMY - CTO - Colour wheel                                |
| Beam time       | Zoom - Focus - Iris - Frost                             |
| Gobo time       | Change gobo 1 and 2 - Fixed gobo wheel - Animation Disk |

## TIME TABLE

| BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT                | Seconds |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|--------------------|---------|
| 0   | Full    | 43  | 8.6     | 86  | 24      | 129 | 41      | 172 | 58      | 216                | 170     |
| 1   | 0.2     | 44  | 8.8     | 87  |         | 130 |         | 173 |         | 217                |         |
| 2   | 0.4     | 45  | 9       | 88  | 25      | 131 |         | 174 |         | 218                | 180     |
| 3   | 0.6     | 46  | 9.2     | 89  |         | 132 | 42      | 175 | 219     |                    |         |
| 4   | 0.8     | 47  | 9.4     | 90  | 26      | 133 |         | 176 | 220     |                    |         |
| 5   | 1       | 48  | 9.6     | 91  |         | 134 | 43      | 177 | 221     | 190                |         |
| 6   | 1.2     | 49  | 9.8     | 92  | 135     | 44  |         | 178 | 222     |                    |         |
| 7   | 1.4     | 50  | 10      | 93  | 136     |     | 45      | 179 | 223     | 200                |         |
| 8   | 1.6     | 51  | 10.2    | 94  | 137     | 46  |         | 180 | 224     |                    |         |
| 9   | 1.8     | 52  | 10.4    | 95  | 138     |     | 47      | 181 | 225     |                    |         |
| 10  | 2       | 53  | 10.6    | 96  | 139     | 48  |         | 182 | 226     | 210                |         |
| 11  | 2.2     | 54  | 11      | 97  | 140     |     | 49      | 183 | 227     |                    |         |
| 12  | 2.4     | 55  | 12      | 98  | 141     | 50  |         | 184 | 228     |                    |         |
| 13  | 2.6     | 56  | 13      | 99  | 142     |     | 51      | 185 | 229     | 220                |         |
| 14  | 2.8     | 57  |         | 100 | 143     | 186 |         | 230 |         |                    |         |
| 15  | 3       | 58  | 14      | 101 | 144     | 52  | 187     | 231 | 230     |                    |         |
| 16  | 3.2     | 59  |         | 102 | 145     |     | 188     | 232 |         |                    |         |
| 17  | 3.4     | 60  | 15      | 103 | 146     | 53  | 189     | 233 |         | 240                |         |
| 18  | 3.6     | 61  |         | 104 | 147     |     | 190     | 234 |         |                    |         |
| 19  | 3.8     | 62  | 16      | 105 | 148     | 54  | 191     | 235 | 250     |                    |         |
| 20  | 4       | 63  |         | 106 | 149     |     | 192     | 236 |         |                    |         |
| 21  | 4.2     | 64  | 17      | 107 | 150     | 55  | 193     | 237 |         | 260                |         |
| 22  | 4.4     | 65  |         | 108 | 151     |     | 194     | 238 |         |                    |         |
| 23  | 4.6     | 66  | 18      | 109 | 152     | 56  | 195     | 239 | 270     |                    |         |
| 24  | 4.8     | 67  |         | 110 | 153     |     | 196     | 240 |         |                    |         |
| 25  | 5       | 68  | 19      | 111 | 154     | 57  | 197     | 241 |         | 280                |         |
| 26  | 5.2     | 69  |         | 112 | 155     |     | 198     | 242 |         |                    |         |
| 27  | 5.4     | 70  | 20      | 113 | 156     | 58  | 199     | 243 | 290     |                    |         |
| 28  | 5.6     | 71  |         | 114 | 157     |     | 200     | 244 |         |                    |         |
| 29  | 5.8     | 72  | 21      | 115 | 158     | 59  | 201     | 245 |         | 300                |         |
| 30  | 6       | 73  |         | 116 | 159     |     | 202     | 246 |         |                    |         |
| 31  | 6.2     | 74  | 22      | 117 | 160     | 60  | 203     | 247 | 310     |                    |         |
| 32  | 6.4     | 75  |         | 118 | 161     |     | 204     | 248 |         |                    |         |
| 33  | 6.6     | 76  | 23      | 119 | 162     | 61  | 205     | 249 |         | Follow cue<br>Data |         |
| 34  | 6.8     | 77  |         | 120 | 163     |     | 206     | 250 |         |                    |         |
| 35  | 7       | 78  | 24      | 121 | 164     | 62  | 207     | 251 |         |                    |         |
| 36  | 7.2     | 79  |         | 122 | 165     |     | 208     | 252 |         |                    |         |
| 37  | 7.4     | 80  | 25      | 123 | 166     | 63  | 209     | 253 |         |                    |         |
| 38  | 7.6     | 81  |         | 124 | 167     |     | 210     | 254 |         |                    |         |
| 39  | 7.8     | 82  | 26      | 125 | 168     | 64  | 211     |     |         |                    |         |
| 40  | 8       | 83  |         | 126 | 169     |     | 212     |     |         |                    |         |
| 41  | 8.2     | 84  | 27      | 127 | 170     | 65  | 213     |     |         |                    |         |
| 42  | 8.4     | 85  |         | 128 | 171     |     | 214     |     |         |                    |         |
|     |         |     |         |     |         |     | 215     |     |         |                    |         |