

## CHANNEL FUNCTION

### ALPHA SPOT HPE 1500

| CHANNEL | CHANNEL MODE                            |   |
|---------|---|---|
|         | STANDARD                                | VECTOR                                  |
| 1       | CYAN                                    | CYAN                                    |
| 2       | MAGENTA                                 | MAGENTA                                 |
| 3       | YELLOW                                  | YELLOW                                  |
| 4       | C.T.O                                   | C.T.O                                   |
| 5       | COLOUR WHEEL                            | COLOUR WHEEL                            |
| 6       | MACRO COLOURS                           | MACRO COLOURS                           |
| 7       | STOP/STROBE                             | STOP/STROBE                             |
| 8       | DIMMER                                  | DIMMER                                  |
| 9       | DIMMER FINE                             | DIMMER FINE                             |
| 10      | IRIS                                    | IRIS                                    |
| 11      | ANIMATED STAR GOBO                      | ANIMATED STAR GOBO                      |
| 12      | STATIC GOBO CHANGE                      | STATIC GOBO CHANGE                      |
| 13      | ROTATING GOBO 1 CHANGE                  | ROTATING GOBO 1 CHANGE                  |
| 14      | GOBO 1 ROTATION                         | GOBO 1 ROTATION                         |
| 15      | GOBO 1 FINE                             | GOBO 1 FINE                             |
| 16      | ROTATING GOBO2 CHANGE                   | ROTATING GOBO2 CHANGE                   |
| 17      | GOBO2 ROTATION                          | GOBO2 ROTATION                          |
| 18      | GOBO2 FINE                              | GOBO2 FINE                              |
| 19      | ANIMATION DISK INSERTION                | ANIMATION DISK INSERTION                |
| 20      | ANIMATION DISK ROTATION                 | ANIMATION DISK ROTATION                 |
| 21      | ROTATING PRISM INSERTION                | ROTATING PRISM INSERTION                |
| 22      | PRISM ROTATION                          | PRISM ROTATION                          |
| 23      | FROST INSERTION                         | FROST INSERTION                         |
| 24      | FOCUS                                   | FOCUS                                   |
| 25      | FOCUS FINE                              | FOCUS FINE                              |
| 26      | ZOOM                                    | ZOOM                                    |
| 27      | AUTOFOCUS DISTANCE                      | AUTOFOCUS DISTANCE                      |
| 28      | AUTOFOCUS ADJUSTMENT                    | AUTOFOCUS ADJUSTMENT                    |
| 29      | MACRO EFFECTS                           | MACRO EFFECTS                           |
| 30      | PAN                                     | PAN                                     |
| 31      | PAN FINE                                | PAN FINE                                |
| 32      | TILT                                    | TILT                                    |
| 33      | TILT FINE                               | TILT FINE                               |
| 34      | FUNCTION                                | FUNCTION                                |
| 35      | RESET                                   | RESET                                   |
| 36      | LAMP ON/OFF (with Option "Lamp DMX" ON) | LAMP ON/OFF (with Option "Lamp DMX" ON) |
| 37      |   | PAN-TILT TIME                           |
| 38      |   | COLOUR TIME                             |
| 39      |   | BEAM TIME                               |
| 40      |   | GOBO TIME                               |

NOTE: On conclusion of resetting in case of absence of DMX signal, Pan & Tilt move to the "Home" position (Pan 50% - Tilt 50%) all the others channels stay at 0%.

• COLOUR MIXING - channel 1 - 2 - 3

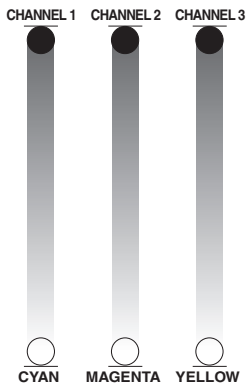
Operation with option color mixing: RGB



| BIT | %   | EFFECT          |
|-----|-----|-----------------|
| 255 | 100 | COLOUR EXCLUDED |
| 0   | 0.0 | COLOUR INSERTED |

**IMPORTANT:** The lamp dim to half power 1 second after all the 3 channels stay at 0% level. The lamp goes back to full power when the channels level is put higher than 0%.

Operation with option color mixing: CMY



| BIT | %   | EFFECT          |
|-----|-----|-----------------|
| 255 | 100 | COLOUR INSERTED |
| 0   | 0.0 | COLOUR EXCLUDED |

**IMPORTANT:** The lamp dim to half power 1 second after all the 3 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



| BIT | %    | EFFECT                |
|-----|------|-----------------------|
| 255 | 100  | FAST ROTATION 160 rpm |
| 128 | 50.0 | SLOW ROTATION 0.2rpm  |
| 117 | 46.0 | BLUE                  |
| 97  | 38.0 | ORANGE                |
| 77  | 30.0 | AQUAMARINE            |
| 58  | 23.0 | GREEN                 |
| 39  | 15.0 | CTO 3200              |
| 20  | 8.0  | RED                   |
| 0   | 0.0  | WHITE                 |

• MACRO COLOURS - channel 6

| COLOR NAME               | BIT     | %         | ROSCO CODE | LEE CODE | CYAN BIT | MAGENTA BIT | YELLOW BIT | CTO BIT | WHEEL BIT |
|--------------------------|---------|-----------|------------|----------|----------|-------------|------------|---------|-----------|
| Unused Range             | 186-255 | 58,0-100  | -          | -        | -        | -           | -          | -       | -         |
| Half CT straw            | 146-147 | 57,0-57,5 | 442        | 442      | 0        | 0           | 34         | 190     | 0         |
| Lighter blue             | 144-145 | 56,2-56,7 | 353        | 353      | 226      | 0           | 149        | 138     | 0         |
| Glacier blue             | 142-143 | 55,5-56,0 | 352        | 352      | 220      | 0           | 129        | 138     | 0         |
| Fuschia pink             | 140-141 | 54,7-55,0 | 345        | 345      | 109      | 186         | 77         | 120     | 0         |
| Mallard green            | 138-139 | 54,0-54,2 | 325        | 325      | 255      | 0           | 0          | 236     | 58        |
| Jade                     | 136-137 | 53,2-53,7 | 323        | 323      | 127      | 0           | 162        | 0       | 77        |
| 3/4 CT Orange            | 134-135 | 52,5-53,0 | 285        | 285      | 0        | 36          | 61         | 217     | 0         |
| 3/4 CTB                  | 132-133 | 51,7-52,0 | 281        | 281      | 85       | 79          | 87         | 54      | 0         |
| Half minus green         | 130-131 | 51,0-51,2 | 248        | 248      | 60       | 19          | 86         | 75      | 39        |
| Minus green              | 128-129 | 50,0-50,5 | 247        | 247      | 60       | 71          | 86         | 75      | 39        |
| 1/4 CTO                  | 126-127 | 49,5-49,7 | 206        | 206      | 62       | 71          | 123        | 122     | 0         |
| 1/2 CTO                  | 124-125 | 48,7-49,0 | 205        | 205      | 25       | 26          | 45         | 131     | 0         |
| Full CT Orange           | 122-123 | 48,0-48,2 | 204        | 204      | 0        | 44          | 58         | 234     | 0         |
| 1/4 CTB                  | 120-121 | 47,0-47,5 | 203        | 203      | 75       | 54          | 91         | 109     | 0         |
| 1/2 CTB                  | 118-119 | 46,2-46,7 | 202        | 202      | 85       | 71          | 84         | 89      | 0         |
| Full CTB                 | 116-117 | 45,5-46,0 | 201        | 201      | 94       | 79          | 80         | 0       | 0         |
| Alice Blue               | 114-115 | 44,7-45,0 | 197        | 197      | 236      | 51          | 0          | 205     | 0         |
| Congo Blue               | 112-113 | 44,0-44,2 | 181        | 181      | 251      | 241         | 0          | 255     | 0         |
| Dark Lavender            | 110-111 | 43,2-43,7 | 180        | 180      | 195      | 170         | 0          | 160     | 0         |
| Chrome Orange            | 108-109 | 42,5-43,0 | 179        | 179      | 0        | 98          | 255        | 255     | 0         |
| Lagoon blue              | 106-107 | 41,7-42,0 | 172        | 172      | 224      | 0           | 121        | 40      | 79        |
| Deep Lavender            | 104-105 | 41,0-41,2 | 170        | 170      | 100      | 129         | 77         | 120     | 0         |
| Lilac tint               | 102-103 | 40,0-40,5 | 169        | 169      | 41       | 59          | 39         | 120     | 0         |
| Daylight Blue            | 100-101 | 39,0-39,5 | 165        | 165      | 210      | 73          | 105        | 88      | 0         |
| Flame red                | 98-99   | 38,2-38,7 | 164        | 164      | 0        | 255         | 227        | 255     | 97        |
| Bastard amber            | 96-97   | 37,5-38,0 | 162        | 162      | 0        | 26          | 0          | 199     | 0         |
| Deep Orange              | 94-95   | 36,7-37,0 | 158        | 158      | 0        | 148         | 255        | 255     | 0         |
| Pink                     | 92-93   | 36,0-36,2 | 157        | 157      | 0        | 159         | 0          | 255     | 0         |
| Pale rose                | 90-91   | 35,0-35,5 | 154        | 154      | 0        | 48          | 0          | 189     | 0         |
| Pale Gold                | 88-89   | 34,2-34,7 | 152        | 152      | 0        | 60          | 98         | 138     | 0         |
| Bright rose              | 86-87   | 33,7-34,0 | 148        | 148      | 0        | 255         | 0          | 255     | 0         |
| Apricot                  | 84-85   | 33,0-33,2 | 147        | 147      | 0        | 81          | 55         | 255     | 0         |
| Bright Blue              | 82-83   | 32,0-32,5 | 141        | 141      | 182      | 0           | 99         | 92      | 77        |
| Primary green            | 80-81   | 31,2-31,7 | 139        | 139      | 0        | 0           | 0          | 231     | 58        |
| Light green              | 78-79   | 30,5-31,0 | 121        | 121      | 0        | 0           | 255        | 0       | 77        |
| Pale green               | 76-77   | 29,7-30,0 | 138        | 138      | 105      | 0           | 179        | 100     | 0         |
| Special Lavender         | 74-75   | 29,0-29,5 | 137        | 137      | 97       | 105         | 72         | 90      | 0         |
| Pale Lavender            | 72-73   | 28,2-28,7 | 136        | 136      | 73       | 102         | 44         | 120     | 0         |
| Deep golden amber        | 70-71   | 27,5-28,0 | 135        | 135      | 0        | 255         | 255        | 255     | 0         |
| Golden amber             | 68-69   | 26,7-27,0 | 134        | 134      | 0        | 142         | 234        | 110     | 0         |
| Medium blue              | 66-67   | 26,0-26,2 | 132        | 132      | 255      | 152         | 127        | 0       | 77        |
| Marine blue              | 64-65   | 25,0-25,5 | 131        | 131      | 60       | 0           | 106        | 73      | 77        |
| Bright pink              | 62-63   | 24,2-24,7 | 128        | 128      | 0        | 255         | 0          | 197     | 0         |
| Mauve                    | 60-61   | 23,7-24,0 | 126        | 126      | 0        | 255         | 0          | 255     | 74        |
| Fern Green               | 58-59   | 23,0-23,2 | 122        | 122      | 173      | 0           | 235        | 89      | 0         |
| Leaf green               | 56-57   | 22,0-22,5 | 121        | 121      | 136      | 0           | 241        | 64      | 0         |
| Deep Blue                | 54-55   | 21,2-21,7 | 120        | 120      | 255      | 229         | 58         | 128     | 77        |
| Dark blue                | 52-53   | 20,5-21,0 | 119        | 119      | 255      | 161         | 0          | 0       | 77        |
| Light blue               | 50-51   | 19,5-20,0 | 118        | 118      | 245      | 0           | 145        | 138     | 0         |
| Steel blue               | 48-49   | 18,7-19,0 | 117        | 117      | 167      | 0           | 141        | 165     | 0         |
| Medium blue green        | 46-47   | 18,0-18,2 | 116        | 116      | 189      | 0           | 157        | 91      | 77        |
| Peacock blue             | 44-45   | 17,0-17,5 | 115        | 115      | 136      | 0           | 128        | 91      | 77        |
| Dark pink                | 42-43   | 16,2-16,7 | 111        | 111      | 0        | 139         | 0          | 220     | 0         |
| Light Salmon             | 40-41   | 15,5-16,0 | 109        | 109      | 50       | 121         | 58         | 230     | 0         |
| English rose             | 38-39   | 14,7-15,0 | 108        | 108      | 0        | 62          | 0          | 247     | 0         |
| Light rose               | 36-37   | 14,0-14,2 | 107        | 107      | 0        | 95          | 0          | 220     | 0         |
| Primary red              | 34-35   | 13,2-13,7 | 106        | 182      | 0        | 0           | 0          | 0       | 20        |
| Orange                   | 32-33   | 12,5-13,0 | 105        | 105      | 0        | 182         | 255        | 76      | 0         |
| Deep amber               | 30-31   | 11,7-12,0 | 104        | 104      | 0        | 26          | 199        | 223     | 0         |
| Straw                    | 28-29   | 11,0-11,2 | 103        | 103      | 58       | 17          | 104        | 176     | 0         |
| Light amber              | 26-27   | 10,0-10,5 | 102        | 102      | 0        | 0           | 171        | 193     | 0         |
| Yellow                   | 24-25   | 9,5-9,7   | 101        | 101      | 0        | 0           | 255        | 149     | 0         |
| Spring yellow            | 22-23   | 8,7-9,0   | 100        | 100      | 80       | 0           | 227        | 157     | 0         |
| Dark Yellow Green        | 20-21   | 8,0-8,2   | 090        | 090      | 255      | 0           | 255        | 204     | 0         |
| Lime green               | 18-19   | 7,0-7,5   | 088        | 088      | 118      | 0           | 241        | 124     | 0         |
| Just Blue                | 16-17   | 6,2-6,7   | 079        | 079      | 255      | 77          | 0          | 204     | 0         |
| Tokyo Blue               | 14-15   | 5,5-6,0   | 071        | 071      | 255      | 255         | 0          | 180     | 77        |
| Sky blue                 | 12-13   | 4,7-5,0   | 068        | 068      | 245      | 77          | 64         | 173     | 0         |
| Pale blue                | 10-11   | 4,0-4,2   | 063        | 063      | 122      | 0           | 112        | 127     | 0         |
| Lavender                 | 8-9     | 3,2-3,7   | 058        | 058      | 165      | 186         | 77         | 0       | 0         |
| Bright Red               | 6-7     | 2,5-3,0   | 026        | 026      | 0        | 255         | 0          | 255     | 21        |
| Mad Yellow               | 4-5     | 1,7-2,0   | 010        | 010      | 48       | 0           | 239        | 115     | 0         |
| Mad bastard amber        | 2-3     | 1,0-1,2   | 004        | 004      | 0        | 62          | 78         | 159     | 0         |
| Random Macro Color       | -       | -         | -          | -        | -        | -           | -          | -       | -         |
| (only for Macro effects) | 1       | 0,5       | -          | -        | -        | -           | -          | -       | -         |
| Unused Range             | 0,00    | 0,0       | -          | -        | -        | -           | -          | -       | -         |

• STOP / STROBE - channel 7



| 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 1 second 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 8



| BIT | %   | EFFECT        |
|-----|-----|---------------|
| 255 | 100 | DIMMER OPEN   |
| ... | ... | ...           |
| 0   | 0.0 | DIMMER CLOSED |

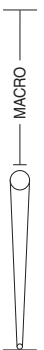
The lamp is linearly dimmed from full power to half power electronically and mechanically from half power to off.

• DIMMER FINE - channel 9



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

• IRIS - channel 10



| 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             |

• ANIMATED STAR GOBO – channel 11

\*With the "Animated star gobo" on this bit/percentual, all "Macro effects" that include an Iris scene, use the "Animated Star gobo" instead the "Iris"



| 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             |

• STATIC GOBO CHANGE - channel 12



| BIT       | %           | EFFECT                   |
|-----------|-------------|--------------------------|
| 255       | 100         | GOBO 8 SHAKE, FAST SPEED |
| ...       | ...         | ...                      |
| 244       | 95.5        | GOBO 8 SHAKE, SLOW SPEED |
| 243       | 95.0        | GOBO 7 SHAKE, FAST SPEED |
| ...       | ...         | ...                      |
| 232       | 91.0        | GOBO 7 SHAKE, SLOW SPEED |
| 231       | 90.5        | GOBO 6 SHAKE, FAST SPEED |
| ...       | ...         | ...                      |
| 220       | 86.2        | GOBO 6 SHAKE, SLOW SPEED |
| 219       | 86.0        | GOBO 5 SHAKE, FAST SPEED |
| ...       | ...         | ...                      |
| 208       | 81.7        | GOBO 5 SHAKE, SLOW SPEED |
| 207       | 81.2        | GOBO 4 SHAKE, FAST SPEED |
| ...       | ...         | ...                      |
| 196       | 76.7        | GOBO 4 SHAKE, SLOW SPEED |
| 195       | 76.2        | GOBO 3 SHAKE, FAST SPEED |
| ...       | ...         | ...                      |
| 184       | 72.0        | GOBO 3 SHAKE, SLOW SPEED |
| 183       | 71.7        | GOBO 2 SHAKE, FAST SPEED |
| ...       | ...         | ...                      |
| 172       | 67.5        | GOBO 2 SHAKE, SLOW SPEED |
| 171       | 67.0        | GOBO 1 SHAKE, FAST SPEED |
| ...       | ...         | ...                      |
| 160       | 63.0        | GOBO 1 SHAKE, SLOW SPEED |
| 159       | 62.5        | FAST ROTATION (100 rpm)  |
| ...       | ...         | ...                      |
| 118       | 46.2        | SLOW ROTATION (5 rpm)    |
| 114 - 117 | 44.7 - 46.0 | STOP                     |
| 113       | 44.2        | SLOW ROTATION (5 rpm)    |
| ...       | ...         | ...                      |
| 72        | 28.2        | FAST ROTATION (100 rpm)  |
| ...       | ...         | ...                      |
| 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 13

| 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 |
| 112-129 | 44.0-50.5 | GOBO 6                   |
| ...     | ...       | ...                      |
| 93-111  | 36.2-43.7 | GOBO 5                   |
| ...     | ...       | ...                      |
| 75-92   | 29.5-36.0 | GOBO 4                   |
| ...     | ...       | ...                      |
| 56-74   | 22.0-29.0 | GOBO 3                   |
| ...     | ...       | ...                      |
| 38-55   | 14.7-21.7 | GOBO 2                   |
| ...     | ...       | ...                      |
| 19-37   | 7.5-14.2  | GOBO 1                   |
| ...     | ...       | ...                      |
| 0-18    | 0-7.0     | WHITE                    |

• ROTATING GOBO 2 CHANGE - channel 16

| 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 |
| 112-129 | 44.0-50.5 | GOBO 6                   |
| ...     | ...       | ...                      |
| 93-111  | 36.2-43.7 | GOBO 5                   |
| ...     | ...       | ...                      |
| 75-92   | 29.5-36.0 | GOBO 4                   |
| ...     | ...       | ...                      |
| 56-74   | 22.0-29.0 | GOBO 3                   |
| ...     | ...       | ...                      |
| 38-55   | 14.7-21.7 | GOBO 2                   |
| ...     | ...       | ...                      |
| 19-37   | 7.5-14.2  | GOBO 1                   |
| ...     | ...       | ...                      |
| 0-18    | 0-7.0     | WHITE                    |

• GOBO 1 ROTATION - channel 14

| BIT       | %           | EFFECT                  |
|-----------|-------------|-------------------------|
| 255       | 100         | FAST ROTATION (150 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 (150 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             |

• GOBO 2 ROTATION - channel 17

| BIT       | %           | EFFECT                  |
|-----------|-------------|-------------------------|
| 255       | 100         | FAST ROTATION (150 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 (150 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             |

• GOBO 1 FINE - channel 15

| BIT | %    |
|-----|------|
| 255 | 100  |
| ... | ...  |
| 127 | 50.0 |
| ... | ...  |
| 0   | 0.0  |

• GOBO 2 FINE - channel 18

| BIT | %    |
|-----|------|
| 255 | 100  |
| ... | ...  |
| 127 | 50.0 |
| ... | ...  |
| 0   | 0.0  |

• ANIMATION DISK INSERTION - channel 19

| BIT   | %     | EFFECT        |
|-------|-------|---------------|
| 255   | 100   | DISK INSERTED |
| ..... | ..... |               |
| 0     | 0.0   | DISK EXCLUDED |

• FROST - channel 23

| BIT   | %     | EFFECT         |
|-------|-------|----------------|
| 255   | 100   | FROST INSERTED |
| ..... | ..... |                |
| 0     | 0.0   | FROST EXCLUDED |

• ANIMATION DISK ROTATION - channel 20



| 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) |

• FOCUS - channel 24



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

• PRISM INSERTION - channel 21

| BIT   | %     | EFFECT         |
|-------|-------|----------------|
| 255   | 100   | PRISM INSERTED |
| ..... | ..... |                |
| 128   | 50.0  |                |
| 127   | 49.7  |                |
| ..... | ..... |                |
| 0     | 0.0   | PRISM EXCLUDED |

• FOCUS FINE - channel 25



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

• PRISM ROTATION - channel 22



| 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°             |

• ZOOM - channel: 26



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

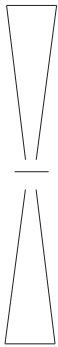
• AUTOFOCUS DISTANCE - channel 27

| BIT | %       | EFFECT        |
|-----|---------|---------------|
| 255 | 100     | 100 METRES    |
| 128 | 50.0    | 50 METRES     |
| 102 | 40.0    | 40 METRES     |
| 77  | 30.0    | 30 METRES     |
| 51  | 20.0    | 20 METRES     |
| 26  | 10.0    | 10 METRES     |
| 7   | 3.0     | 3 METRES      |
| 0-6 | 0.0-2.5 | AUTOFOCUS OFF |

AUTOFOCUS priority:

- 1) Rotating Gobo 2
- 2) Static Gobo
- 3) Rotating Gobo 1
- 4) Animated Star Gobo
- 5) Iris

• AUTOFOCUS ADJUSTMENT - channel 28



| BIT | %    | EFFECT     |
|-----|------|------------|
| 255 | 100  | FOCUS FINE |
| 128 | 50.0 |            |
| 0   | 0.0  | FOCUS FINE |

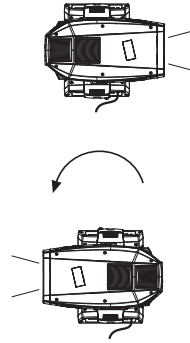
• MACRO EFFECTS - channel 29

| BIT     | %         | EFFECT         |
|---------|-----------|----------------|
| 232-255 | 91,0-100  | STAND BY BLACK |
| 220-231 | 86,2-90,5 | RANDOM MACRO 8 |
| 208-219 | 81,7-86,0 | RANDOM MACRO 7 |
| 196-207 | 76,7-81,2 | RANDOM MACRO 6 |
| 184-195 | 72,0-76,2 | RANDOM MACRO 5 |
| 172-183 | 67,5-71,7 | RANDOM MACRO 4 |
| 160-171 | 63,0-67,0 | RANDOM MACRO 3 |
| 148-159 | 58,0-62,5 | RANDOM MACRO 2 |
| 136-147 | 53,2-57,5 | RANDOM MACRO 1 |
| 112-135 | 44,0-53,0 | STAND BY BLACK |
| 100-111 | 39,0-43,7 | MACRO 8        |
| 88-99   | 34,2-38,7 | MACRO 7        |
| 76-87   | 29,7-34,0 | MACRO 6        |
| 64-75   | 25,0-29,5 | MACRO 5        |
| 52-63   | 20,5-24,7 | MACRO 4        |
| 40-51   | 15,5-20,0 | MACRO 3        |
| 28-39   | 11,0-15,0 | MACRO 2        |
| 16-27   | 6,2-10,5  | MACRO 1        |
| 12-15   | 4,7-6,0   | STAND BY BLACK |
| 8-11    | 3,2-4,2   | STAND BY       |
| 0-7     | 0,0-3,0   | MACRO OFF      |

• PAN - channel 30

Operation with option InvertPan  $\diamond$  Off

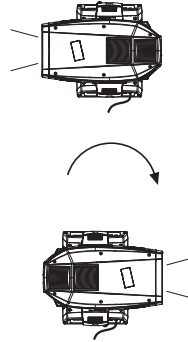
(Tilt conventionally represented at 14% and option Invert Tilt  $\diamond$  Off)



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

Operation with option InvertPan  $\diamond$  On

(Tilt conventionally represented at 14% and option Invert Tilt  $\diamond$  Off)

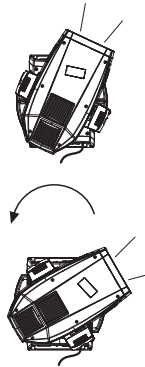


| BIT | %   |
|-----|-----|
| 255 | 100 |
| 0   | 0.0 |

• PAN FINE - channel 31

Operation with option InvertPan  $\diamond$  Off

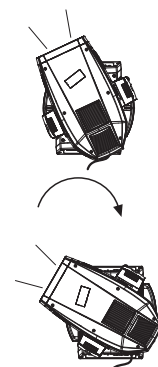
(Tilt conventionally represented at 14% and option Invert Tilt  $\diamond$  Off)



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

Operation with option InvertPan  $\diamond$  On

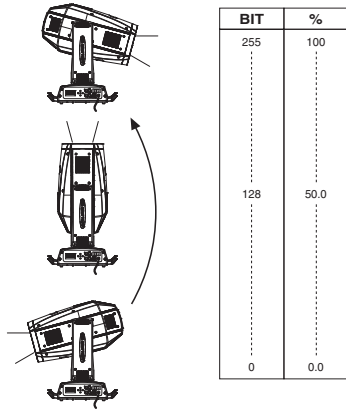
(Tilt conventionally represented at 14% and option Invert Tilt  $\diamond$  Off)



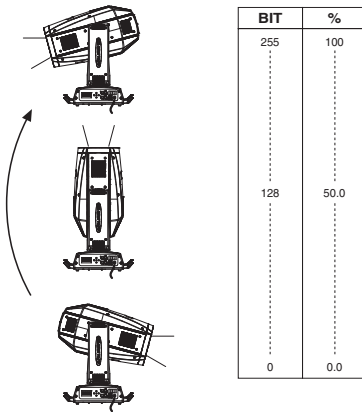
| BIT | %   |
|-----|-----|
| 255 | 100 |
| 0   | 0.0 |

• **TILT - channel 32**

Operation with option Invert Tilt  $\diamond$  Off  
(Pan conventionally represented at 0% and option Invert Pan  $\diamond$  Off)

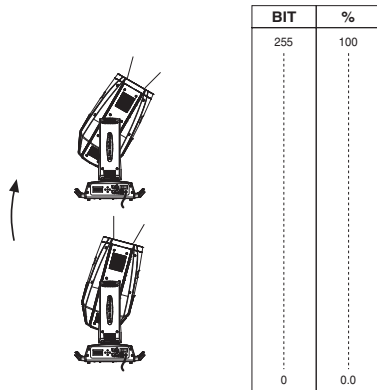


Operation with option Invert Tilt  $\diamond$  On  
(Pan conventionally represented at 0% and option Invert Pan  $\diamond$  Off)

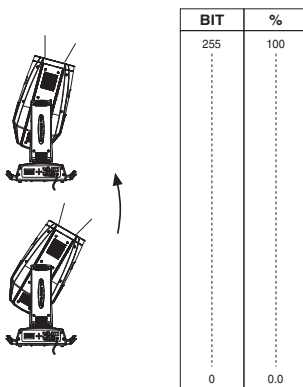


• **TILT FINE - channel 33**

Operation with option Invert Tilt  $\diamond$  Off  
(Pan conventionally represented at 0% and option Invert Pan  $\diamond$  Off)



Operation with option Invert Tilt  $\diamond$  On  
(Pan conventionally represented at 0% and option Invert Pan  $\diamond$  Off)



• **FUNCTION - channel: 34**

| BIT   | %         | EFFECT         |                   |
|-------|-----------|----------------|-------------------|
| 255   | 100       | UNUSED RANGE   |                   |
| ...   | ...       |                |                   |
| 63    | 24.7      |                |                   |
| 51-62 | 20.0-24.2 |                | LINEAR (Default)  |
| 38-50 | 14.7-19.5 |                | CONVENTIONAL      |
| 25-37 | 9.7-14.2  | NORMAL         | PAN-TILT FUNCTION |
| 12-24 | 4.7-9.5   | FAST (Default) |                   |
| 0-11  | 0.0-4.2   | UNUSED RANGE   |                   |

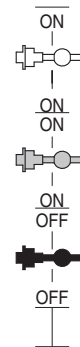
The functions are activated passing through unused range and staying 5 seconds in necessary level.

• **RESET - channel: 35**

| BIT | %    | EFFECT   |
|-----|------|--|
| 255 | 100  | COMPLETE RESET   |
| ... | ...  | Complete reset is activated passing through the unused range and staying 5 seconds in complete reset levels.     |
| 128 | 50.0 | COMPLETE RESET<br>PAN / TILT RESET   |
| 127 | 49.7 |  |
| ... | ...  | Pan / Tilt reset is activated passing through the unused range and staying 5 seconds in Pan / Tilt reset levels. |
| 77  | 30.0 | PAN / TILT RESET<br>EFFECTS RESET  |
| 76  | 29.7 |  |
| ... | ...  | Effects reset is activated passing through the unused range and staying 5 seconds in Effects reset levels.       |
| 26  | 10.0 | EFFECTS RESET  |
| 25  | 9.7  |  |
| ... | ...  | UNUSED RANGE   |
| 0   | 0.0  |  |

• **LAMP CONTROL (only with option LAMP DMX On) - channel: 36**

**IMPORTANT:** Alpha Spot HPE 1500 is not provided with hot restrike igniter



| BIT | %    | EFFECT   |
|-----|------|--|
| 255 | 100  | LAMP ON (1500 W)   |
| ... | ...  | Lamp ignition after 5 s in full power levels.<br>Immediate transition from half to full power. |
| 180 | 70.5 | LAMP ON (1500 W)<br>LAMP ON (1200 W)   |
| 179 | 70.0 |  |
| ... | ...  | Immediate transition from full to half power.<br>Lamp ignition not allowed in half power.      |
| 101 | 39.5 | LAMP ON (1200 W)<br>LAMP OFF   |
| 100 | 39.0 |  |
| ... | ...  | Lamp switch off passing through the unused range and staying 5 s in Lamp OFF levels.           |
| 26  | 10.0 | LAMP OFF   |
| 25  | 9.7  |  |
| 0   | 0.0  | UNUSED RANGE   |

## TIMING CHANNELS

|    | Timing Channel  | Channel function  |
|----|-----------------|---|
| 37 | Pan - Tilt time | Pan – Tilt – Pan Fine – Tilt Fine   |
| 38 | Colour time     | Cyan - Magenta - Yellow – C.T.O. – Color wheel  |
| 39 | Beam time       | Dimmer - Iris -Focus effects movment - Focus - Zoom - Frost – Rotating Prism change – Frost insertion |
| 40 | Gobo time       | Gobo Fix - Rotating Gobo 1/2 change – Animation Disk insertion  |

## TIME TABLE

| BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT | Seconds            |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------------------|
| 0   | Full    | 43  | 8.6     | 86  | 24      | 129 |         | 172 |         | 216 |                    |
| 1   | 0.2     | 44  | 8.8     | 87  |         | 130 | 41      | 173 | 58      | 217 | 170                |
| 2   | 0.4     | 45  | 9       | 88  |         | 131 |         | 174 |         | 218 |                    |
| 3   | 0.6     | 46  | 9.2     | 89  | 25      | 132 | 42      | 175 | 59      | 219 | 180                |
| 4   | 0.8     | 47  | 9.4     | 90  |         | 133 |         | 176 |         | 220 |                    |
| 5   | 1       | 48  | 9.6     | 91  | 26      | 134 | 43      | 177 | 60      | 221 | 190                |
| 6   | 1.2     | 49  | 9.8     | 92  |         | 135 |         | 178 |         | 222 |                    |
| 7   | 1.4     | 50  | 10      | 93  | 27      | 136 | 44      | 179 | 65      | 223 | 200                |
| 8   | 1.6     | 51  | 10.2    | 94  |         | 137 |         | 180 |         | 224 |                    |
| 9   | 1.8     | 52  | 10.4    | 95  | 28      | 138 | 45      | 181 | 70      | 225 | 210                |
| 10  | 2       | 53  | 10.6    | 96  |         | 139 |         | 182 |         | 226 |                    |
| 11  | 2.2     | 54  | 11      | 97  | 29      | 140 | 46      | 183 | 75      | 227 | 220                |
| 12  | 2.4     | 55  | 12      | 98  |         | 141 |         | 184 |         | 228 |                    |
| 13  | 2.6     | 56  | 13      | 99  | 30      | 142 | 47      | 185 | 80      | 229 | 230                |
| 14  | 2.8     | 57  | 14      | 100 |         | 143 |         | 186 |         | 230 |                    |
| 15  | 3       | 58  | 15      | 101 | 31      | 144 | 48      | 187 | 85      | 231 | 240                |
| 16  | 3.2     | 59  | 16      | 102 |         | 145 |         | 188 |         | 232 |                    |
| 17  | 3.4     | 60  | 17      | 103 | 32      | 146 | 49      | 189 | 90      | 233 | 250                |
| 18  | 3.6     | 61  | 18      | 104 |         | 147 |         | 190 |         | 234 |                    |
| 19  | 3.8     | 62  | 19      | 105 | 33      | 148 | 50      | 191 | 95      | 235 | 260                |
| 20  | 4       | 63  | 20      | 106 |         | 149 |         | 192 |         | 236 |                    |
| 21  | 4.2     | 64  | 21      | 107 | 34      | 150 | 51      | 193 | 100     | 237 | 270                |
| 22  | 4.4     | 65  | 22      | 108 |         | 151 |         | 194 |         | 238 |                    |
| 23  | 4.6     | 66  | 23      | 109 | 35      | 152 | 52      | 195 | 110     | 239 | 280                |
| 24  | 4.8     | 67  | 24      | 110 |         | 153 |         | 196 |         | 240 |                    |
| 25  | 5       | 68  | 25      | 111 | 36      | 154 | 53      | 197 | 120     | 241 | 290                |
| 26  | 5.2     | 69  | 26      | 112 |         | 155 |         | 198 |         | 242 |                    |
| 27  | 5.4     | 70  | 27      | 113 | 37      | 156 | 54      | 199 | 130     | 243 | 300                |
| 28  | 5.6     | 71  | 28      | 114 |         | 157 |         | 200 |         | 244 |                    |
| 29  | 5.8     | 72  | 29      | 115 | 38      | 158 | 55      | 201 | 140     | 245 | 280                |
| 30  | 6       | 73  | 30      | 116 |         | 159 |         | 202 |         | 246 |                    |
| 31  | 6.2     | 74  | 31      | 117 | 39      | 160 | 56      | 203 | 150     | 247 | 290                |
| 32  | 6.4     | 75  | 32      | 118 |         | 161 |         | 204 |         | 248 |                    |
| 33  | 6.6     | 76  | 33      | 119 | 40      | 162 | 57      | 205 | 160     | 249 | 300                |
| 34  | 6.8     | 77  | 34      | 120 |         | 163 |         | 206 |         | 250 |                    |
| 35  | 7       | 78  | 35      | 121 | 41      | 164 | 58      | 207 | 170     | 251 | 310                |
| 36  | 7.2     | 79  | 36      | 122 |         | 165 |         | 208 |         | 252 |                    |
| 37  | 7.4     | 80  | 37      | 123 | 42      | 166 | 59      | 209 | 180     | 253 | 310                |
| 38  | 7.6     | 81  | 38      | 124 |         | 167 |         | 210 |         | 254 |                    |
| 39  | 7.8     | 82  | 39      | 125 | 43      | 168 | 60      | 211 | 190     | 255 | Follow cue<br>Data |
| 40  | 8       | 83  | 40      | 126 |         | 169 |         | 212 |         |     |                    |
| 41  | 8.2     | 84  | 41      | 127 | 44      | 170 | 61      | 213 | 200     |     |                    |
| 42  | 8.4     | 85  | 42      | 128 |         | 171 |         | 214 |         |     |                    |
|     |         |     |         |     |         |     |         | 215 | 210     |     |                    |