



# **LS 600c Pro**

DMX Profile Specification

Controller Firmware V1.0

## Content

|   |    |
|---|----|
| Mode 1: CCT & RGB 8-bit (8 channels) .....        | 3  |
| Mode 2: CCT 8-bit (4 channels) .....              | 3  |
| Mode 3: CCT & HSI 8-bit (8 channels) .....        | 4  |
| Mode 4: RGB 8-bit (5 channels) .....              | 4  |
| Mode 5: HSI 8-bit (8 channels) .....              | 5  |
| Mode 6: GEL 8-bit (6 channels) .....              | 5  |
| Mode 7: XY 8-bit (4 channels) .....               | 16 |
| Mode 8: Source 8-bit (5 channels) .....           | 16 |
| Mode 9: FX 8-bit (10 channels) .....              | 18 |
| Mode 10: WW & RGB 8-bit (5 channels) .....        | 38 |
| Mode 11: Ultimate Mode 8-bit (11 channels) .....  | 39 |
| Mode 12: CCT & RGB 16-bit (15 channels) .....     | 45 |
| Mode 13: CCT 16-bit (7 channels) .....            | 45 |
| Mode 14: CCT & HSI 16-bit (15 channels) .....     | 46 |
| Mode 15: RGB 16-bit (9 channels) .....            | 46 |
| Mode 16: HSI 16-bit (9 channels) .....            | 47 |
| Mode 17: GEL 16-bit (7 channels) .....            | 47 |
| Mode 18: XY 16-bit (7 channels) .....             | 48 |
| Mode 19: Source 16-bit (6 channels) .....         | 48 |
| Mode 20: FX 16-bit (12 channels) .....            | 50 |
| Mode 21: WWRGB 16-bit (10 channels) .....         | 70 |
| Mode 22: Ultimate Mode 16-bit (16 channels) ..... | 71 |

### Mode 1: CCT & RGB 8-bit

| Channel   | Value     | Percent         | Function         |                     |
|-----------|-----------|-----------------|------------------|---------------------|
| 1         | 0 - 255   | 0 - 100         | <b>Intensity</b> | 0 - 100%            |
| 2         | 0 - 255   | 0 - 100         | <b>CCT</b>       | 2300 K - 10000 K    |
| 3         | 0 - 10    | 0 - 4           | <b>G / M</b>     | Neutral / No Effect |
|           | 11 - 20   | 5 - 8           |                  | Full Minus Green    |
|           | 21 - 119  | 9 - 47          |                  | - 99% - - 1%        |
|           | 120 - 145 | 48 - 57         |                  | Neutral / No Effect |
|           | 146 - 244 | 58 - 96         |                  | 1% - 99%            |
| 245 - 255 | 97 - 100  | Full Plus Green |                  |                     |
| 4         | 0 - 255   | 0 - 100         | <b>CCT ↔ RGB</b> | Crossfade to Color  |
| 5         | 0 - 255   | 0 - 100         | <b>Red</b>       | 0 - 100%            |
| 6         | 0 - 255   | 0 - 100         | <b>Green</b>     | 0 - 100%            |
| 7         | 0 - 255   | 0 - 100         | <b>Blue</b>      | 0 - 100%            |
| 8         | 0 - 19    | 0 - 7           | <b>Strobe</b>    | No Effect           |
|           | 20 - 255  | 8 - 100         |                  | 1 Hz - 25 Hz        |

### Mode 2: CCT 8-bit

| Channel   | Value     | Percent         | Function         |                     |
|-----------|-----------|-----------------|------------------|---------------------|
| 1         | 0 - 255   | 0 - 100         | <b>Intensity</b> | 0 - 100%            |
| 2         | 0 - 255   | 0 - 100         | <b>CCT</b>       | 2300 K - 10000 K    |
| 3         | 0 - 10    | 0 - 4           | <b>G / M</b>     | Neutral / No Effect |
|           | 11 - 20   | 5 - 8           |                  | Full Minus Green    |
|           | 21 - 119  | 9 - 47          |                  | - 99% - - 1%        |
|           | 120 - 145 | 48 - 57         |                  | Neutral / No Effect |
|           | 146 - 244 | 58 - 96         |                  | 1% - 99%            |
| 245 - 255 | 97 - 100  | Full Plus Green |                  |                     |
| 4         | 0 - 19    | 0 - 7           | <b>Strobe</b>    | No Effect           |
|           | 20 - 255  | 8 - 100         |                  | 1 Hz - 25 Hz        |

### Mode 3: CCT & HSI 8-bit

| Channel   | Value     | Percent  | Function            |   |
|-----------|-----------|----------|---------------------|---|
| 1         | 0 - 255   | 0 - 100  | <b>Intensity</b>    | 0 - 100%  |
| 2         | 0 - 255   | 0 - 100  | <b>CCT</b>          | 2300 K - 10000 K  |
| 3         | 0 - 10    | 0 - 4    | <b>G / M</b>        | Neutral / No Effect<br>Full Minus Green<br>- 99% - - 1%<br>Neutral / No Effect<br>1% - 99%<br>Full Plus Green |
|           | 11 - 20   | 5 - 8    |                     |   |
|           | 21 - 119  | 9 - 47   |                     |   |
|           | 120 - 145 | 48 - 57  |                     |   |
|           | 146 - 244 | 58 - 96  |                     |   |
| 245 - 255 | 97 - 100  |          |                     |   |
| 4         | 0 - 255   | 0 - 100  | <b>CCT ↔ HSI</b>    | Crossfade to Color  |
| 5         | 0 - 255   | 0 - 100  | <b>Hue</b>          | 1° - 360°   |
| 6         | 0 - 255   | 0 - 100  | <b>Saturation</b>   | 0 - 100%  |
| 7         | 0 - 255   | 0 - 100  | <b>HSI Base CCT</b> | 2300 K - 10000 K  |
| 8         | 0 - 19    | 0 - 7    | <b>Strobe</b>       | No Effect<br>1 Hz - 25 Hz   |
|           | 20 - 255  | 80 - 100 |                     |   |

### Mode 4: RGB 8-bit

| Channel | Value    | Percent  | Function         |                           |
|---------|----------|----------|------------------|---------------------------|
| 1       | 0 - 255  | 0 - 100  | <b>Intensity</b> | 0 - 100%                  |
| 2       | 0 - 255  | 0 - 100  | <b>Red</b>       | 0 - 100%                  |
| 3       | 0 - 255  | 0 - 100  | <b>Green</b>     | 0 - 100%                  |
| 4       | 0 - 255  | 0 - 100  | <b>Blue</b>      | 0 - 100%                  |
| 5       | 0 - 19   | 0 - 7    | <b>Strobe</b>    | No Effect<br>1 Hz - 25 Hz |
|         | 20 - 255 | 80 - 100 |                  |                           |

### Mode 5: HSI 8-bit

| Channel | Value              | Percent          | Function            |                           |
|---------|--------------------|------------------|---------------------|---------------------------|
| 1       | 0 - 255            | 0 - 100          | <b>Intensity</b>    | 0 - 100%                  |
| 2       | 0 - 255            | 0 - 100          | <b>Hue</b>          | 1° - 360°                 |
| 3       | 0 - 255            | 0 - 100          | <b>Saturation</b>   | 0 - 100%                  |
| 4       | 0 - 255            | 0 - 100          | <b>HSI Base CCT</b> | 2300 K - 10000 K          |
| 5       | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | <b>Strobe</b>       | No Effect<br>1 Hz - 25 Hz |

### Mode 6: GEL 8-bit

| Channel | Value   | Percent  | Function           |  |
|---------|---|--|--------------------|--|
| 1       | 0 - 255   | 0 - 100  | <b>Intensity</b>   | 0 - 100%   |
| 2       | 0 - 126<br>127 - 255  | 0 - 50<br>51 - 100   | <b>CCT</b>         | 3200K<br>5600K   |
| 3       | 0 - 29<br>30 - 59<br>60 - 255                                 | 0 - 12<br>13 - 24<br>25 - 100                              | <b>Rosco / Lee</b> | Rosco<br>Lee<br>Reserved   |
| 4       | 0 - 9<br>10 - 19<br>20 - 29<br>30 - 39<br>40 - 49<br>50 - 255 | 0 - 4<br>5 - 8<br>9 - 12<br>13 - 16<br>17 - 20<br>21 - 100 | <b>Series</b>      | R - Col.corr. / L - Col.corr.<br>R - CalColor / L - Col.Filters<br>R - Storaro / L - 600 Series<br>R - Cinelux / L - Cosmetic<br>R - Reserved / L - 700 Series<br>Reserved |
| 5       | 0 - 255   | 0 - 100  | <b>Category</b>    | See GEL Category Tables<br>in Following Pages  |
| 6       | 0 - 19<br>20 - 255  | 0 - 7<br>8 - 100   | <b>Strobe</b>      | No Effect<br>1 Hz - 25 Hz  |

**GEL Category 1: Rosco - Color Correction**

| Channel          | Value    | GEL Name         | GEL Number |
|------------------|----------|------------------|------------|
|                  | 0 - 1    | Full CTB         | 3202       |
|                  | 2 - 3    | 3/4 CTB          | 3203       |
|                  | 4 - 5    | 1/2 CTB          | 3204       |
|                  | 6 - 7    | 1/3 CTB          | 3206       |
|                  | 8 - 9    | 1/4 CTB          | 3208       |
|                  | 10 - 11  | 1/8 CTB          | 3216       |
|                  | 12 - 13  | Double CTB       | 3220       |
|                  | 14 - 15  | Full CTO         | 3407       |
|                  | 16 - 17  | 3/4 CTO          | 3411       |
|                  | 18 - 19  | 1/2 CTO          | 3408       |
|                  | 20 - 21  | 1/4 CTO          | 3409       |
|                  | 22 - 23  | 1/8 CTO          | 3410       |
|                  | 24 - 25  | Double CTO       | 3420       |
|                  | 26 - 27  | Full CTS         | 3441       |
|                  | 28 - 29  | 1/2 CTS          | 3442       |
| <b>8-bit: 5</b>  | 30 - 31  | 1/4 CTS          | 3443       |
|                  | 32 - 33  | 1/8 CTS          | 3444       |
| <b>16-bit: 6</b> | 34 - 35  | Full Plusgreen   | 3304       |
|                  | 36 - 37  | 1/2 Plusgreen    | 3315       |
|                  | 38 - 39  | 1/4 Plusgreen    | 3316       |
|                  | 40 - 41  | 1/8 Plusgreen    | 3317       |
|                  | 42 - 43  | Full Minusgreen  | 3308       |
|                  | 44 - 45  | 3/4 Minusgreen   | 3309       |
|                  | 46 - 47  | 1/2 Minusgreen   | 3313       |
|                  | 48 - 49  | 1/4 Minusgreen   | 3314       |
|                  | 50 - 51  | 1/8 Minusgreen   | 3318       |
|                  | 52 - 53  | Fluorofilter     | 3310       |
|                  | 54 - 55  | industrial Vapor | 3150       |
|                  | 56 - 57  | Urban Vapor      | 3152       |
|                  | 58 - 59  | Tough Y1         | 3107       |
|                  | 60 - 61  | Tough MT 54      | 3134       |
|                  | 62 - 63  | Tough MTY        | 3106       |
|                  | 64 - 65  | Tough MT2        | 3102       |
|                  | 66 - 255 | Reserved         |            |

**GEL Category 2: Rosco - CalColor**

| Channel         | Value            | GEL Name    | GEL Number  |      |
|-----------------|------------------|-------------|-------------|------|
| <b>8-bit: 5</b> | 0 - 1            | 15 Blue     | 4215        |      |
|                 | 2 - 3            | 30 Blue     | 4230        |      |
|                 | 4 - 5            | 60 Blue     | 4260        |      |
|                 | 6 - 7            | 90 Blue     | 4290        |      |
|                 | 8 - 9            | 7 Cyan      | 4307        |      |
|                 | 10 - 11          | 15 Cyan     | 4315        |      |
|                 | 12 - 103         | 30 Cyan     | 4330        |      |
|                 | 14 - 15          | 60 Cyan     | 4360        |      |
|                 | 16 - 17          | 90 Cyan     | 4390        |      |
|                 | 18 - 19          | 15 Green    | 4415        |      |
|                 | 20 - 21          | 30 Green    | 4430        |      |
|                 | 22 - 23          | 60 Green    | 4460        |      |
|                 | 24 - 25          | 90 Green    | 4490        |      |
|                 | 26 - 27          | 15 Yellow   | 4515        |      |
|                 | 28 - 29          | 30 Yellow   | 4530        |      |
|                 | 30 - 31          | 60 Yellow   | 4560        |      |
|                 | 32 - 33          | 90 Yellow   | 4590        |      |
|                 | <b>16-bit: 6</b> | 34 - 35     | 15 Red      | 4615 |
|                 |                  | 36 - 37     | 30 Red      | 4630 |
|                 |                  | 38 - 39     | 60 Red      | 4660 |
|                 |                  | 40 - 41     | 90 Red      | 4690 |
|                 |                  | 42 - 43     | 15 Magenta  | 4715 |
|                 |                  | 44 - 45     | 30 Magenta  | 4730 |
|                 |                  | 46 - 47     | 60 Magenta  | 4760 |
|                 |                  | 48 - 49     | 90 Magenta  | 4790 |
|                 |                  | 50 - 51     | 15 Pink     | 4815 |
|                 |                  | 52 - 53     | 30 Pink     | 4830 |
|                 |                  | 54 - 55     | 60 Pink     | 4860 |
|                 |                  | 56 - 57     | 90 Pink     | 4890 |
|                 |                  | 58 - 59     | 15 Lavender | 4915 |
|                 |                  | 60 - 61     | 30 Lavender | 4930 |
|                 | 62 - 63          | 60 Lavender | 4960        |      |
|                 | 64 - 65          | 90 Lavender | 4990        |      |
| 66 - 255        | Reserved         |             |             |      |

### GEL Category 3: Rosco - Storaro Selection

| Channel         | Value            | GEL Name  | GEL Number |      |
|-----------------|------------------|-----------|------------|------|
| <b>8-bit: 5</b> | 0 - 1            | VS Red    | 2001       |      |
|                 | 2 - 3            | VS Orange | 2002       |      |
|                 | 4 - 5            | VS Yellow | 2003       |      |
|                 | 6 - 7            | VS Green  | 2004       |      |
|                 | 8 - 9            | VS Cyan   | 2005       |      |
|                 | 10 - 11          | VS Azure  | 2006       |      |
|                 | <b>16-bit: 6</b> | 12 - 13   | VS Blue    | 2007 |
|                 |                  | 14 - 15   | VS indigo  | 2008 |
|                 |                  | 16 - 17   | VS Violet  | 2009 |
|                 |                  | 18 - 19   | VS Magenta | 2010 |
| 20 - 255        |                  | Reserved  |            |      |

### GEL Category 4: Rosco - Cinelux

| Channel          | Value   | GEL Name           | GEL Number |
|------------------|---------|--------------------|------------|
| <b>8-bit: 5</b>  | 0 - 1   | Bastard Amber      | 02         |
|                  | 2 - 3   | Pale Bastard Amber | 302        |
|                  | 4 - 5   | No Color Straw     | 06         |
|                  | 6 - 7   | Pale Gold          | 08         |
|                  | 8 - 9   | Daffodil           | 310        |
|                  | 10 - 11 | Straw              | 12         |
|                  | 12 - 13 | Light Amber        | 16         |
|                  | 14 - 15 | Gallo Gold         | 316        |
|                  | 16 - 17 | Light Flame        | 17         |
|                  | 18 - 19 | Flame              | 18         |
| <b>16-bit: 6</b> | 20 - 21 | Mayan Sun          | 318        |
|                  | 22 - 23 | Golden Amber       | 21         |
|                  | 24 - 25 | Soft Golden Amber  | 321        |
|                  | 26 - 27 | Orange             | 23         |
|                  | 28 - 29 | Henna Sky          | 325        |
|                  | 30 - 31 | Light Red          | 26         |
|                  | 32 - 33 | No Color Pink      | 33         |
|                  | 34 - 35 | Blush Pink         | 333        |
|                  | 36 - 37 | Flesh Pink         | 34         |
|                  | 38 - 39 | Pale Rose Pink     | 37         |



**GEL Category 4: Rosco - Cinelux, continued**

| <b>Channel</b>   | <b>Value</b> | <b>GEL Name</b>   | <b>GEL Number</b> |
|------------------|--------------|-------------------|-------------------|
|                  | 40 - 41      | Salmon            | 41                |
|                  | 42 - 43      | Deep Salmon       | 42                |
|                  | 44 - 45      | Middle Rose       | 44                |
|                  | 46 - 47      | Light Rose Purple | 47                |
|                  | 48 - 49      | Surprise Pink     | 51                |
|                  | 50 - 51      | No Color Blue     | 60                |
|                  | 52 - 53      | Clearwater        | 360               |
|                  | 54 - 55      | Booster Blue      | 62                |
|                  | 56 - 57      | Tipton Blue       | 362               |
|                  | 58 - 59      | Blue Bell         | 364               |
|                  | 60 - 61      | Daylight Blue     | 65                |
|                  | 62 - 63      | Tharon Delft Blue | 365               |
| <b>8-bit: 5</b>  | 64 - 65      | Cerulean Blue     | 375               |
|                  | 66 - 67      | Bermuda Blue      | 376               |
| <b>16-bit: 6</b> | 68 - 69      | Green Blue        | 77                |
|                  | 70 - 71      | Alice Blue        | 378               |
|                  | 72 - 73      | Primary Blue      | 80                |
|                  | 74 - 75      | Baldassari Blue   | 381               |
|                  | 76 - 77      | Medium Blue       | 83                |
|                  | 78 - 79      | Pale Yellow Green | 87                |
|                  | 80 - 81      | Light Green       | 88                |
|                  | 82 - 83      | Moss Green        | 89                |
|                  | 84 - 85      | Primary Green     | 91                |
|                  | 86 - 87      | Turquoise         | 92                |
|                  | 88 - 89      | Blue Green        | 93                |
|                  | 90 - 91      | Chocolate         | 99                |
|                  | 92 - 255     | Reserved          |                   |

**GEL Category 1: LEE - Color Correction**

| Channel         | Value             | GEL Name                    | GEL Number                     |     |
|-----------------|-------------------|-----------------------------|--------------------------------|-----|
| <b>8-bit: 5</b> | 0 - 1             | Double CTB                  | 200                            |     |
|                 | 2 - 3             | Full CTB                    | 201                            |     |
|                 | 4 - 5             | 3 / 4 CTB                   | 281                            |     |
|                 | 6 - 7             | 1 / 2 CTB                   | 202                            |     |
|                 | 8 - 9             | 1 / 4 CTB                   | 203                            |     |
|                 | 10 - 11           | 1 / 8 CTB                   | 218                            |     |
|                 | 12 - 13           | Double CTO                  | 287                            |     |
|                 | 14 - 15           | Full CTO                    | 204                            |     |
|                 | 16 - 17           | 3 / 4 CTO                   | 285                            |     |
|                 | 18 - 19           | 1 / 2 CTO                   | 205                            |     |
|                 | 20 - 21           | 1 / 4 CTO                   | 206                            |     |
|                 | 22 - 23           | 1 / 8 CTO                   | 223                            |     |
|                 | 24 - 25           | 1 1 / 2 CTB                 | 283                            |     |
|                 | 26 - 27           | 1 1 / 2 CTO                 | 286                            |     |
|                 | 28 - 29           | Full CTS                    | 441                            |     |
|                 | 30 - 31           | 1 / 2 CTS                   | 442                            |     |
|                 | 32 - 33           | 1 / 4 CTS                   | 443                            |     |
|                 | 34 - 35           | 1 / 8 CTS                   | 444                            |     |
|                 | 36 - 37           | Full CTO + .3 ND            | 207                            |     |
|                 | 38 - 39           | Full CTO + .6 ND            | 208                            |     |
|                 | <b>16-bit: 6</b>  | 40 - 41                     | L.C.T. Yellow (Y1)             | 212 |
|                 |                   | 42 - 43                     | White Flame Green              | 213 |
|                 |                   | 44 - 45                     | LEE Fluorescent Green          | 219 |
|                 |                   | 46 - 47                     | Super Correction L.C.T. Yellow | 230 |
|                 |                   | 48 - 49                     | Super Correction W.F. Green    | 232 |
|                 |                   | 50 - 51                     | H.M.I. (to Tungsten)           | 236 |
|                 |                   | 52 - 53                     | C.I.D. (to Tungsten)           | 237 |
|                 |                   | 54 - 55                     | C.S.I. (to Tungsten)           | 238 |
|                 |                   | 56 - 57                     | LEE Fluorescent 5700 Kelvin    | 241 |
|                 |                   | 58 - 59                     | LEE Fluorescent 4300 Kelvin    | 242 |
|                 | 60 - 61           | LEE Fluorescent 3600 Kelvin | 243                            |     |
|                 | 62 - 63           | LEE Plus Green              | 244                            |     |
|                 | 64 - 65           | 1 / 2 Plus Green            | 245                            |     |
|                 | 66 - 67           | 1 / 4 Plus Green            | 246                            |     |
|                 | 68 - 69           | 1 / 8 Plus Green            | 278                            |     |
| 70 - 71         | LEE Minus Green   | 247                         |                                |     |
| 72 - 73         | 1 / 2 Minus Green | 248                         |                                |     |
| 74 - 75         | 1 / 4 Minus Green | 249                         |                                |     |
| 76 - 77         | 1 / 8 Minus Green | 279                         |                                |     |
| 78 - 255        | Reserved          |                             |                                |     |

**GEL Category 2: LEE - Color Filters**

| Channel         | Value            | GEL Name             | GEL Number        |     |
|-----------------|------------------|----------------------|-------------------|-----|
| <b>8-bit: 5</b> | 0 - 1            | Rose Pink            | 002               |     |
|                 | 2 - 3            | Lavender Tint        | 003               |     |
|                 | 4 - 5            | Medium Bastard Amber | 004               |     |
|                 | 6 - 7            | Pale Yellow          | 007               |     |
|                 | 8 - 9            | Dark Salmon          | 008               |     |
|                 | 10 - 11          | Pale Amber Gold      | 009               |     |
|                 | 12 - 13          | Medium Yellow        | 010               |     |
|                 | 14 - 15          | Straw Tint           | 013               |     |
|                 | 16 - 17          | Surprise Peach       | 017               |     |
|                 | 18 - 19          | Fire                 | 019               |     |
|                 | 20 - 21          | Medium Amber         | 020               |     |
|                 | 22 - 23          | Gold Amber           | 021               |     |
|                 | 24 - 25          | Dark Amber           | 022               |     |
|                 | 26 - 27          | Scarlet              | 024               |     |
|                 | 28 - 29          | Sunset Red           | 025               |     |
|                 | 30 - 31          | Bright Red           | 026               |     |
|                 | 32 - 33          | Light Pink           | 035               |     |
|                 | 34 - 35          | Medium Pink          | 036               |     |
|                 | <b>16-bit: 6</b> | 36 - 37              | Dark Magenta      | 046 |
|                 |                  | 38 - 39              | Rose Purple       | 048 |
|                 |                  | 40 - 41              | Light Lavender    | 052 |
|                 |                  | 42 - 43              | Paler Lavender    | 053 |
|                 |                  | 44 - 45              | Lavender          | 058 |
|                 |                  | 46 - 47              | Mist Blue         | 061 |
|                 |                  | 48 - 49              | Pale Blue         | 063 |
|                 |                  | 50 - 51              | Sky Blue          | 068 |
|                 |                  | 52 - 53              | Evening Blue      | 075 |
|                 |                  | 54 - 55              | Just Blue         | 079 |
|                 |                  | 56 - 57              | Deeper Blue       | 085 |
|                 |                  | 58 - 59              | Lime Green        | 088 |
|                 |                  | 60 - 61              | Moss Green        | 089 |
|                 |                  | 62 - 63              | Dark Yellow Green | 090 |
|                 |                  | 64 - 65              | Spring Yellow     | 100 |
|                 |                  | 66 - 67              | Yellow            | 101 |
|                 |                  | 68 - 69              | Light Amber       | 102 |

**GEL Category 2: LEE - Color Filter, continued**

| Channel          | Value     | GEL Name          | GEL Number |
|------------------|-----------|-------------------|------------|
|                  | 70 - 71   | Straw             | 103        |
|                  | 72 - 73   | Deep Amber        | 104        |
|                  | 74 - 75   | Primary Red       | 106        |
|                  | 76 - 77   | Light Rose        | 107        |
|                  | 78 - 79   | English Rose      | 108        |
|                  | 80 - 81   | Light Salmon      | 109        |
|                  | 82 - 83   | Middle Rose       | 110        |
|                  | 84 - 85   | Dark Pink         | 111        |
|                  | 86 - 87   | Magenta           | 113        |
|                  | 88 - 89   | Peacock Blue      | 115        |
|                  | 90 - 91   | Steel Blue        | 117        |
|                  | 92 - 93   | Light Blue        | 118        |
|                  | 94 - 95   | Deep Blue         | 120        |
|                  | 96 - 97   | LEE Green         | 121        |
|                  | 98 - 99   | Fern Green        | 122        |
|                  | 100 - 101 | Dark Green        | 124        |
| <b>8-bit: 5</b>  | 102 - 103 | Smokey Pink       | 127        |
|                  | 104 - 105 | Bright Pink       | 128        |
| <b>16-bit: 6</b> | 106 - 107 | Marine Blue       | 131        |
|                  | 108 - 109 | Golden Amber      | 134        |
|                  | 110 - 111 | Deep Golden Amber | 135        |
|                  | 112 - 113 | Pale Lavender     | 136        |
|                  | 114 - 115 | Special Lavender  | 137        |
|                  | 116 - 117 | Pale Green        | 138        |
|                  | 118 - 119 | Summer Blue       | 140        |
|                  | 120 - 121 | Pale Violet       | 142        |
|                  | 122 - 123 | Pale Navy Blue    | 143        |
|                  | 124 - 125 | No Color Blue     | 144        |
|                  | 126 - 127 | Apricot           | 147        |
|                  | 128 - 129 | Bright Rose       | 148        |
|                  | 130 - 131 | Gold Tint         | 151        |
|                  | 132 - 133 | Pale Gold         | 152        |
|                  | 134 - 135 | Pale Salmon       | 153        |
|                  | 136 - 137 | Pale Rose         | 154        |
|                  | 138 - 139 | Chocolate         | 156        |

**GEL Category 2: LEE - Color Filter, continued**

| Channel         | Value            | GEL Name        | GEL Number    |     |
|-----------------|------------------|-----------------|---------------|-----|
| <b>8-bit: 5</b> | 140 - 141        | Pink            | 157           |     |
|                 | 142 - 143        | No Color Straw  | 159           |     |
|                 | 144 - 145        | Slate Blue      | 161           |     |
|                 | 146 - 147        | Bastard Amber   | 162           |     |
|                 | 148 - 149        | Flame Red       | 164           |     |
|                 | 150 - 151        | Daylight Blue   | 165           |     |
|                 | 152 - 153        | Lilac Tint      | 169           |     |
|                 | 154 - 155        | Deep Lavender   | 170           |     |
|                 | 156 - 157        | Dark Steel Blue | 174           |     |
|                 | 158 - 159        | Loving Amber    | 176           |     |
|                 | <b>16-bit: 6</b> | 160 - 161       | Dark Lavender | 180 |
|                 |                  | 162 - 163       | Light Red     | 182 |
|                 |                  | 164 - 165       | Flesh Pink    | 192 |
|                 |                  | 166 - 167       | Surprise Pink | 194 |
|                 |                  | 168 - 169       | Zenith Blue   | 195 |
|                 |                  | 170 - 171       | True Blue     | 196 |
|                 |                  | 172 - 173       | Alice Blue    | 197 |
|                 |                  | 174 - 175       | Palace Blue   | 198 |
|                 |                  | 176 - 177       | Regal Blue    | 199 |
|                 | 178 - 255        | Reserved        |               |     |

**GEL Category 3: LEE - 600 Series**

| Channel          | Value   | GEL Name        | GEL Number |
|------------------|---------|-----------------|------------|
| <b>8-bit: 5</b>  | 0 - 1   | Arctic White    | 600        |
|                  | 2 - 3   | Silver          | 601        |
|                  | 4 - 5   | Plati num       | 602        |
|                  | 6 - 7   | Moonlight White | 603        |
|                  | 8 - 9   | Full CT 85      | 604        |
| <b>16-bit: 6</b> | 10 - 11 | industry Sodium | 650        |
|                  | 12 - 13 | HI Sodium       | 651        |
|                  | 14 - 15 | Urban Sodium    | 652        |
|                  | 16 - 17 | LO Sodium       | 653        |
|                  |         | 18 - 255        | Reserved   |

### GEL Category 4: LEE - Cosmetic Filters

| Channel          | Value    | GEL Name              | GEL Number |
|------------------|----------|-----------------------|------------|
|                  | 0 - 1    | Cosmetic Peach        | 184        |
|                  | 2 - 3    | Cosmetic Silver Rose  | 186        |
|                  | 4 - 5    | Cosmetic Rouge        | 187        |
|                  | 6 - 7    | Cosmetic Highlight    | 188        |
|                  | 8 - 9    | Cosmetic Silver Moss  | 189        |
|                  | 10 - 11  | Cosmetic Aqua Blue    | 191        |
|                  | 12 - 13  | Lily Frost            | 705        |
|                  | 14 - 15  | Shanklin Frost        | 717        |
| <b>8-bit: 5</b>  | 16 - 17  | Half Shanklin Frost   | 718        |
|                  | 18 - 19  | Durham Daylight Frost | 720        |
| <b>16-bit: 6</b> | 20 - 21  | Hampshire Rose        | 749        |
|                  | 22 - 23  | Durham Frost          | 750        |
|                  | 24 - 25  | Soft Amber Key 1      | 774        |
|                  | 26 - 27  | Soft Amber Key 2      | 775        |
|                  | 28 - 29  | Moroccan Frost        | 791        |
|                  | 30 - 31  | Blue Diffusion        | 217        |
|                  | 32 - 33  | Blue Frost            | 221        |
|                  | 34 - 35  | Daylight Blue Frost   | 224        |
|                  | 36 - 255 | Reserved              |            |

**GEL Category 5: LEE - 700 Series**

| Channel                                 | Value    | GEL Name              | GEL Number |
|---|----------|-----------------------|------------|
| <b>8-bit: 5</b><br><br><b>16-bit: 6</b> | 0 - 1    | Perfect Lavender      | 700        |
|   | 2 - 3    | Provence              | 701        |
|   | 4 - 5    | Special Pale Lavender | 702        |
|   | 6 - 7    | Cold Lavender         | 703        |
|   | 8 - 9    | Lily                  | 704        |
|   | 10 - 11  | King Fals Lavender    | 706        |
|   | 12 - 13  | Cool Lavender         | 708        |
|   | 14 - 15  | Electric Lilac        | 709        |
|   | 16 - 17  | Spir Special Blue     | 710        |
|   | 18 - 19  | Cold Blue             | 711        |
|   | 20 - 21  | Bedford Blue          | 712        |
|   | 22 - 23  | Elysian Blue          | 714        |
|   | 24 - 25  | Cabana Blue           | 715        |
|   | 26 - 27  | Mikkel Blue           | 716        |
|   | 28 - 29  | Colour Wash Blue      | 719        |
|   | 30 - 31  | Berry Blue            | 721        |
|   | 32 - 33  | Virgin Blue           | 723        |
|   | 34 - 35  | Ocean Blue            | 724        |
|   | 36 - 37  | Old Steel Blue        | 725        |
|   | 38 - 39  | Steel Green           | 728        |
|   | 40 - 41  | Liberty Green         | 730        |
|   | 42 - 43  | Dirty Ice             | 731        |
|   | 44 - 45  | Damp Squib            | 733        |
|   | 46 - 47  | JAS Green             | 738        |
|   | 48 - 49  | Bram Brown            | 742        |
|   | 50 - 51  | Dirty White           | 744        |
|   | 52 - 53  | Brown                 | 746        |
|   | 54 - 55  | Easy White            | 747        |
|   | 56 - 57  | Seedy Pink            | 748        |
|   | 58 - 59  | Wheat                 | 763        |
|   | 60 - 61  | Sun Colour Straw      | 764        |
|   | 62 - 63  | LEE Yellow            | 765        |
|   | 64 - 65  | Cardbox Amber         | 773        |
|   | 66 - 67  | Nectarine             | 776        |
|   | 68 - 69  | Millenium Gold        | 778        |
|   | 70 - 71  | Bastard Pink          | 779        |
|   | 72 - 73  | Terry Red             | 781        |
|   | 74 - 75  | Blood Red             | 789        |
|   | 76 - 77  | Moroccan Pink         | 790        |
|   | 78 - 79  | Pretty n'Pink         | 794        |
|   | 80 - 81  | Magical Magenta       | 795        |
|   | 82 - 255 | Reserved              |            |

**Mode 7: XY 8-bit**

| Channel | Value              | Percent          | Function            |                           |
|---------|--------------------|------------------|---------------------|---------------------------|
| 1       | 0 - 255            | 0 - 100          | <b>Intensity</b>    | 0 - 100%                  |
| 2       | 0 - 255            | 0 - 100          | <b>X Coordinate</b> | 0 - 0.8                   |
| 3       | 0 - 255            | 0 - 100          | <b>Y Coordinate</b> | 0 - 0.8                   |
| 4       | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | <b>Strobe</b>       | No Effect<br>1 Hz - 25 Hz |

**Mode 8: Source 8-bit**

| Channel | Value   | Percent              | Function      |                    |
|---------|---------|----------------------|---------------|--------------------|
| 1       | 0 - 255 | 0 - 100              | <b>INT</b>    | 0 - 100%           |
| 2       | 0 - 2   | 0 - 1                | <b>Source</b> | Tungsten Bulb      |
|         | 3 - 5   | 2 - 3                |               | incandescent       |
|         | 6 - 8   | 4 - 5                |               | Halogen            |
|         | 9 - 11  | 6 - 7                |               | Antique Bulb       |
|         | 12 - 14 | 8 - 9                |               | Warm Antique Bulb  |
|         | 15 - 17 | 10 - 11              |               | Christmas Lights   |
|         | 18 - 20 | 12 - 13              |               | Night Light        |
|         | 21 - 23 | 14 - 15              |               | infrared Heat Lamp |
|         | 24 - 26 | 16 - 17              |               | Grow Light         |
|         | 27 - 29 | 18 - 19              |               | CFL Soft White     |
|         | 30 - 32 | 20 - 21              |               | CFL Bright White   |
|         | 33 - 35 | 22 - 23              |               | CFL Cool White     |
|         | 36 - 38 | 24 - 25              |               | CFL Daylight       |
|         | 39 - 41 | 26 - 27              |               | Cool White 1       |
|         | 42 - 44 | 28 - 29              |               | Cool White 2       |
|         | 45 - 47 | 30 - 31              |               | Cool White 3       |
|         | 48 - 50 | 32 - 33              |               | Warm White         |
| 51 - 53 | 34 - 35 | CFL Blacklight       |               |                    |
| 54 - 56 | 36 - 37 | HMI                  |               |                    |
| 57 - 59 | 38 - 39 | High Pressure Sodium |               |                    |



**Mode 8: Source 8-bit, continued**

| Channel   | Value     | Percent           | Function            |                      |
|-----------|-----------|-------------------|---------------------|----------------------|
| <b>2</b>  | 60 - 62   | 40 - 41           | <b>Source</b>       | Low Pressure Sodium  |
|           | 63 - 65   | 42 - 43           |                     | Mercury Vapor        |
|           | 66 - 68   | 44 - 45           |                     | Metal Halide         |
|           | 69 - 71   | 46 - 47           |                     | Ceramic              |
|           | 72 - 74   | 48 - 49           |                     | Carbon Arc           |
|           | 75 - 77   | 50 - 51           |                     | Xenon                |
|           | 78 - 80   | 52 - 53           |                     | Candle               |
|           | 81 - 83   | 54 - 55           |                     | Gas Fire             |
|           | 84 - 86   | 56 - 57           |                     | Sun Direct           |
|           | 87 - 89   | 58 - 59           |                     | Sun Overcast         |
|           | 90 - 92   | 60 - 61           |                     | Sun Blue Hour        |
|           | 93 - 95   | 62 - 63           |                     | Mobile Phone         |
|           | 96 - 98   | 64 - 65           |                     | Computer Monitor     |
|           | 99 - 101  | 66 - 67           |                     | Electroluminescence  |
|           | 102 - 104 | 68 - 69           |                     | Blow Torch           |
|           | 105 - 107 | 70 - 71           |                     | Road Flare           |
|           | 108 - 110 | 72 - 73           |                     | Amber Caution        |
|           | 111 - 113 | 74 - 75           |                     | Green Traffic Light  |
|           | 114 - 116 | 76 - 77           |                     | Yellow Traffic Light |
|           | 117 - 119 | 78 - 79           |                     | Red Traffic Light    |
| 120 - 122 | 80 - 81   | Blue Glow Stick   |                     |                      |
| 123 - 125 | 82 - 83   | Green Glow Stick  |                     |                      |
| 126 - 128 | 84 - 85   | Red Glow Stick    |                     |                      |
| 129 - 131 | 86 - 87   | Yellow Glow Stick |                     |                      |
| 132 - 135 | 88 - 89   | Pink Glow Stick   |                     |                      |
| 136 - 138 | 90 - 91   | Violet Glow Stick |                     |                      |
| 139 - 255 | 92 - 100  |                   | Reserved            |                      |
| <b>3</b>  | 0 - 127   | 0 - 49            | <b>X Coordinate</b> | 0.0000 - +0.0050     |
|           | 128 - 255 | 50 - 100          |                     | 0.0000 - - 0.0050    |
| <b>4</b>  | 0 - 127   | 0 - 49            | <b>Y Coordinate</b> | 0.0000 - +0.0050     |
|           | 128 - 255 | 50 - 100          |                     | 0.0000 - - 0.0050    |
| <b>5</b>  | 0 - 19    | 0 - 7             | <b>Strobe</b>       | No Effect            |
|           | 20 - 255  | 8 - 100           |                     | 1 Hz - 25 Hz         |

**Mode 9: FX 8-bit - List of Effects**

| Channel   | Value                                      | Percent  | Function            |              |
|-----------|--|----------|---------------------|--------------|
| 1         | 0 - 255                                    | 0 - 100  | <b>Intensity</b>    | 0 - 100%     |
| 2         | 0 - 9                                      | 0 - 4    | <b>FX Selection</b> | Club Lights  |
|           | 10 - 19                                    | 5 - 8    |                     | Paparazzi    |
|           | 20 - 29                                    | 9 - 12   |                     | Lightning    |
|           | 30 - 39                                    | 13 - 16  |                     | TV           |
|           | 40 - 49                                    | 17 - 20  |                     | Candle       |
|           | 50 - 59                                    | 21 - 24  |                     | Fire         |
|           | 60 - 69                                    | 25 - 28  |                     | Strobe       |
|           | 70 - 79                                    | 29 - 32  |                     | Explosion    |
|           | 80 - 89                                    | 33 - 36  |                     | Faulty Bulb  |
|           | 90 - 99                                    | 37 - 40  |                     | Pulsing      |
|           | 100 - 109                                  | 41 - 44  |                     | Welding      |
|           | 110 - 119                                  | 45 - 48  |                     | Cop Car      |
|           | 120 - 129                                  | 49 - 52  |                     | Color Chase  |
|           | 130 - 139                                  | 53 - 56  |                     | Party Lights |
|           | 140 - 149                                  | 57 - 60  |                     | Fireworks    |
| 150 - 255 | 61 - 100                                   | Reserved |                     |              |
| 3         | See FX Parameter Tables in Following Pages |          |                     |              |
| 4         |  |          |                     |              |
| 5         |  |          |                     |              |
| 6         |  |          |                     |              |
| 7         |  |          |                     |              |
| 8         |  |          |                     |              |
| 9         |  |          |                     |              |
| 10        |  |          |                     |              |

**FX Parameter: Club Lights**

| Channel  | Value     | Percent  | Function             |          |
|----------|-----------|----------|----------------------|----------|
| <b>3</b> | 0 - 9     | 0 - 4    | <b>No. of Colors</b> | 3        |
|          | 10 - 19   | 5 - 8    |                      | 6        |
|          | 20 - 29   | 9 - 12   |                      | 9        |
|          | 30 - 39   | 13 - 16  |                      | 12       |
|          | 40 - 49   | 17 - 20  |                      | 15       |
|          | 50 - 59   | 21 - 24  |                      | 18       |
|          | 60 - 69   | 25 - 28  |                      | 24       |
|          | 70 - 79   | 29 - 32  |                      | 36       |
|          | 80 - 255  | 33 - 100 |                      | Reserved |
| <b>4</b> | 0 - 9     | 0 - 4    | <b>Speed</b>         | 1        |
|          | 10 - 19   | 5 - 8    |                      | 2        |
|          | 20 - 29   | 9 - 12   |                      | 3        |
|          | 30 - 39   | 13 - 16  |                      | 4        |
|          | 40 - 49   | 17 - 20  |                      | 5        |
|          | 50 - 59   | 21 - 24  |                      | 6        |
|          | 60 - 69   | 25 - 28  |                      | 7        |
|          | 70 - 79   | 29 - 32  |                      | 8        |
|          | 80 - 89   | 33 - 36  |                      | 9        |
|          | 90 - 99   | 37 - 40  |                      | 10       |
|          | 100 - 255 | 41 - 100 |                      | Reserved |
| <b>5</b> | 0 - 10    | 0 - 5    | <b>Stop / Loop</b>   | Stop     |
|          | 11 - 127  | 6 - 50   |                      | Loop     |
|          | 128 - 255 | 51 - 100 |                      | Reserved |

**FX Parameter: Paparazzi**

| Channel  | Value   | Percent   | Function           |   |
|----------|---|---|--------------------|---|
| <b>3</b> | 0 - 255   | 0 - 100   | <b>CCT</b>         | 2300 K - 10000 K  |
| <b>4</b> | 0 - 10<br>11 - 20<br>21 - 119<br>120 - 145<br>146 - 244<br>245 - 255  | 0 - 4<br>5 - 8<br>9 - 47<br>48 - 57<br>58 - 96<br>97 - 100  | <b>G / M</b>       | Neutral / No Effect<br>Full Minus Green<br>- 99% - - 1%<br>Neutral / No Effect<br>1% - 99%<br>Full Plus Green |
| <b>5</b> | 0 - 9<br>10 - 19<br>20 - 29<br>30 - 39<br>40 - 49<br>50 - 59<br>60 - 69<br>70 - 79<br>80 - 89<br>90 - 99<br>100 - 255 | 0 - 4<br>5 - 8<br>9 - 12<br>13 - 16<br>17 - 20<br>21 - 24<br>25 - 28<br>29 - 32<br>33 - 36<br>37 - 40<br>41 - 100 | <b>Frequency</b>   | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>Reserved   |
| <b>6</b> | 0 - 10<br>11 - 127<br>128 - 255   | 0 - 5<br>6 - 50<br>51 - 100   | <b>Stop / Loop</b> | Stop<br>Loop<br>Reserved  |

**FX Parameter: Lightning**

| Channel   | Value     | Percent  | Function                     |                     |
|-----------|-----------|----------|------------------------------|---------------------|
| 3         | 0 - 255   | 0 - 100  | <b>CCT</b>                   | 2300 K - 10000 K    |
| 4         | 0 - 10    | 0 - 4    | <b>G / M</b>                 | Neutral / No Effect |
|           | 11 - 20   | 5 - 8    |                              | Full Minus Green    |
|           | 21 - 119  | 9 - 47   |                              | - 99% - - 1%        |
|           | 120 - 145 | 48 - 57  |                              | Neutral / No Effect |
|           | 146 - 244 | 58 - 96  |                              | 1% - 99%            |
| 5         | 245 - 255 | 97 - 100 |                              | Full Plus Green     |
|           | 0 - 9     | 0 - 4    | <b>Frequency</b>             | 1                   |
|           | 10 - 19   | 5 - 8    |                              | 2                   |
|           | 20 - 29   | 9 - 12   |                              | 3                   |
|           | 30 - 39   | 13 - 16  |                              | 4                   |
|           | 40 - 49   | 17 - 20  |                              | 5                   |
|           | 50 - 59   | 21 - 24  |                              | 6                   |
|           | 60 - 69   | 25 - 28  |                              | 7                   |
|           | 70 - 79   | 29 - 32  |                              | 8                   |
|           | 80 - 89   | 33 - 36  |                              | 9                   |
|           | 90 - 99   | 37 - 40  |                              | 10                  |
| 100 - 109 | 41 - 44   | Random   |                              |                     |
| 110 - 255 | 45 - 100  | Reserved |                              |                     |
| 6         | 0 - 9     | 0 - 4    | <b>Speed</b>                 | 1                   |
|           | 10 - 19   | 5 - 8    |                              | 2                   |
|           | 20 - 29   | 9 - 12   |                              | 3                   |
|           | 30 - 39   | 13 - 16  |                              | 4                   |
|           | 40 - 49   | 17 - 20  |                              | 5                   |
|           | 50 - 59   | 21 - 24  |                              | 6                   |
|           | 60 - 69   | 25 - 28  |                              | 7                   |
|           | 70 - 79   | 29 - 32  |                              | 8                   |
|           | 80 - 89   | 33 - 36  |                              | 9                   |
|           | 90 - 99   | 37 - 40  |                              | 10                  |
|           | 100 - 109 | 41 - 44  |                              | Random              |
| 110 - 255 | 45 - 100  | Reserved |                              |                     |
| 7         | 0 - 10    | 0 - 5    | <b>Stop / Trigger / Loop</b> | Stop                |
|           | 11 - 127  | 6 - 50   |                              | Trigger             |
|           | 128 - 255 | 51 - 100 |                              | Loop                |

**FX Parameter: TV**

| Channel  | Value     | Percent  | Function           |          |
|----------|-----------|----------|--------------------|----------|
| <b>3</b> | 0 - 9     | 0 - 4    | <b>CCT Range</b>   | Warmer   |
|          | 10 - 19   | 5 - 8    |                    | Natural  |
|          | 20 - 29   | 9 - 12   |                    | Cooler   |
|          | 30 - 255  | 13 - 100 |                    | Reserved |
| <b>4</b> | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1        |
|          | 10 - 19   | 5 - 8    |                    | 2        |
|          | 20 - 29   | 9 - 12   |                    | 3        |
|          | 30 - 39   | 13 - 16  |                    | 4        |
|          | 40 - 49   | 17 - 20  |                    | 5        |
|          | 50 - 59   | 21 - 24  |                    | 6        |
|          | 60 - 69   | 25 - 28  |                    | 7        |
|          | 70 - 79   | 29 - 32  |                    | 8        |
|          | 80 - 89   | 33 - 36  |                    | 9        |
|          | 90 - 99   | 37 - 40  |                    | 10       |
|          | 100 - 109 | 41 - 44  |                    | Random   |
|          | 110 - 255 | 45 - 100 |                    | Reserved |
| <b>5</b> | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop     |
|          | 11 - 127  | 6 - 50   |                    | Loop     |
|          | 128 - 255 | 51 - 100 |                    | Reserved |

**FX Parameter: Candle**

| Channel  | Value     | Percent  | Function           |          |
|----------|-----------|----------|--------------------|----------|
| <b>3</b> | 0 - 9     | 0 - 4    | <b>CCT Range</b>   | Warmer   |
|          | 10 - 19   | 4 - 8    |                    | Natural  |
|          | 20 - 29   | 8 - 12   |                    | Cooler   |
|          | 30 - 255  | 12 - 100 |                    | Reserved |
| <b>4</b> | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1        |
|          | 10 - 19   | 5 - 8    |                    | 2        |
|          | 20 - 29   | 9 - 12   |                    | 3        |
|          | 30 - 39   | 13 - 16  |                    | 4        |
|          | 40 - 49   | 17 - 20  |                    | 5        |
|          | 50 - 59   | 21 - 24  |                    | 6        |
|          | 60 - 69   | 25 - 28  |                    | 7        |
|          | 70 - 79   | 29 - 32  |                    | 8        |
|          | 80 - 89   | 33 - 36  |                    | 9        |
|          | 90 - 99   | 37 - 40  |                    | 10       |
|          | 100 - 255 | 41 - 100 |                    | Reserved |
| <b>5</b> | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop     |
|          | 11 - 127  | 6 - 50   |                    | Loop     |
|          | 128 - 255 | 51 - 100 |                    | Reserved |

**FX Parameter: Fire**

| Channel  | Value     | Percent  | Function           |          |
|----------|-----------|----------|--------------------|----------|
| <b>3</b> | 0 - 9     | 0 - 4    | <b>CCT Range</b>   | Warmer   |
|          | 10 - 19   | 4 - 8    |                    | Natural  |
|          | 20 - 29   | 8 - 12   |                    | Cooler   |
|          | 30 - 255  | 12 - 100 |                    | Reserved |
| <b>4</b> | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1        |
|          | 10 - 19   | 5 - 8    |                    | 2        |
|          | 20 - 29   | 9 - 12   |                    | 3        |
|          | 30 - 39   | 13 - 16  |                    | 4        |
|          | 40 - 49   | 17 - 20  |                    | 5        |
|          | 50 - 59   | 21 - 24  |                    | 6        |
|          | 60 - 69   | 25 - 28  |                    | 7        |
|          | 70 - 79   | 29 - 32  |                    | 8        |
|          | 80 - 89   | 33 - 36  |                    | 9        |
|          | 90 - 99   | 37 - 40  |                    | 10       |
|          | 100 - 255 | 41 - 100 |                    | Reserved |
| <b>5</b> | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop     |
|          | 11 - 127  | 6 - 50   |                    | Loop     |
|          | 128 - 255 | 51 - 100 |                    | Reserved |



**FX Parameter: Strobe**

| Channel    | Value     | Percent  | Function           |                     |
|------------|-----------|----------|--------------------|---------------------|
| <b>3</b>   | 0 - 9     | 0 - 4    | <b>Mode Select</b> | CCT                 |
|            | 10 - 19   | 5 - 8    |                    | HSI                 |
|            | 20 - 29   | 9 - 12   |                    | Gel                 |
|            | 30 - 39   | 13 - 16  |                    | X.Y                 |
|            | 40 - 49   | 17 - 20  |                    | Source              |
|            | 50 - 255  | 21 - 100 |                    | Reserved            |
| <b>CCT</b> |           |          |                    |                     |
| <b>4</b>   | 0 - 255   | 0 - 100  | <b>CCT</b>         | 2300 K - 10000K     |
| <b>5</b>   | 0 - 10    | 0 - 4    | <b>G / M</b>       | Neutral / No Effect |
|            | 11 - 20   | 5 - 8    |                    | Full Minus Green    |
|            | 21 - 119  | 9 - 47   |                    | - 99% - - 1%        |
|            | 120 - 145 | 48 - 57  |                    | Neutral / No Effect |
|            | 146 - 244 | 58 - 96  |                    | 1% - 99%            |
|            | 245 - 255 | 97 - 100 |                    | Full Plus Green     |
| <b>6</b>   | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1                   |
|            | 10 - 19   | 5 - 8    |                    | 2                   |
|            | 20 - 29   | 9 - 12   |                    | 3                   |
|            | 30 - 39   | 13 - 16  |                    | 4                   |
|            | 40 - 49   | 17 - 20  |                    | 5                   |
|            | 50 - 59   | 21 - 24  |                    | 6                   |
|            | 60 - 69   | 25 - 28  |                    | 7                   |
|            | 70 - 79   | 29 - 32  |                    | 8                   |
|            | 80 - 89   | 33 - 36  |                    | 9                   |
|            | 90 - 99   | 37 - 40  |                    | 10                  |
|            | 100 - 109 | 41 - 44  |                    | Random              |
|            | 110 - 255 | 45 - 100 |                    | Reserved            |
|            | <b>7</b>  | 0 - 10   |                    | 0 - 5               |
| 11 - 127   |           | 6 - 50   | Loop               |                     |
| 128 - 255  |           | 51 - 100 | Reserved           |                     |

## FX Parameter: Strobe, continued

| Channel       | Value                           | Percent                     | Function            |   |
|---------------|---------------------------------|-----------------------------|---------------------|---|
| <b>HSI</b>    |                                 |                             |                     |   |
| 4             | 0 - 255                         | 0 - 100                     | <b>HUE</b>          | 1° - 360°                                   |
| 5             | 0 - 255                         | 0 - 100                     | <b>Saturation</b>   | 0 - 100%                                    |
| 6             | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10 - Random                             |
| 7             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                    |
| <b>GEL</b>    |                                 |                             |                     |   |
| 4             | 0 - 255                         | 0 - 100                     | <b>CCT</b>          | <a href="#">See Table in Mode 6: GEL</a>    |
| 5             | 0 - 255                         | 0 - 100                     | <b>Rosco / LEE</b>  |   |
| 6             | 0 - 255                         | 0 - 100                     | <b>Series</b>       |   |
| 7             | 0 - 255                         | 0 - 100                     | <b>Category</b>     |   |
| 8             | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10 - Random                             |
| 9             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                    |
| <b>XY</b>     |                                 |                             |                     |   |
| 4             | 0 - 255                         | 0 - 100                     | <b>X coordinate</b> | 0 - 0.8                                     |
| 5             | 0 - 255                         | 0 - 100                     | <b>Y coordinate</b> | 0 - 0.8                                     |
| 6             | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10 - Random                             |
| 7             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                    |
| <b>Source</b> |                                 |                             |                     |   |
| 4             | 0 - 255                         | 0 - 100                     | <b>Source</b>       | <a href="#">See Table in Mode 8: Source</a> |
| 5             | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10 - Random                             |
| 6             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                    |

**FX Parameter:Explosion**

| Channel    | Value     | Percent  | Function           |                     |
|------------|-----------|----------|--------------------|---------------------|
| <b>3</b>   | 0 - 9     | 0 - 4    | <b>Mode Select</b> | CCT                 |
|            | 10 - 19   | 5 - 8    |                    | HSI                 |
|            | 20 - 29   | 9 - 12   |                    | Gel                 |
|            | 30 - 39   | 13 - 16  |                    | X.Y                 |
|            | 40 - 49   | 17 - 20  |                    | Source              |
|            | 50 - 255  | 21 - 100 |                    | Reserved            |
| <b>CCT</b> |           |          |                    |                     |
| <b>4</b>   | 0 - 255   | 0 - 100  | <b>CCT</b>         | 2300 K - 10000K     |
| <b>5</b>   | 0 - 10    | 0 - 4    | <b>G / M</b>       | Neutral / No Effect |
|            | 11 - 20   | 5 - 8    |                    | Full Minus Green    |
|            | 21 - 119  | 9 - 47   |                    | - 99% - - 1%        |
|            | 120 - 145 | 48 - 57  |                    | Neutral / No Effect |
|            | 146 - 244 | 58 - 96  |                    | 1% - 99%            |
|            | 245 - 255 | 97 - 100 |                    | Full Plus Green     |
| <b>6</b>   | 0 - 9     | 0 - 4    | <b>Decay</b>       | 1                   |
|            | 10 - 19   | 5 - 8    |                    | 2                   |
|            | 20 - 29   | 9 - 12   |                    | 3                   |
|            | 30 - 39   | 13 - 16  |                    | 4                   |
|            | 40 - 49   | 17 - 20  |                    | 5                   |
|            | 50 - 59   | 21 - 24  |                    | 6                   |
|            | 60 - 69   | 25 - 28  |                    | 7                   |
|            | 70 - 79   | 29 - 32  |                    | 8                   |
|            | 80 - 89   | 33 - 36  |                    | 9                   |
|            | 90 - 99   | 37 - 40  |                    | 10                  |
|            | 100 - 255 | 41 - 100 |                    | Reserved            |
| <b>7</b>   | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop                |
|            | 11 - 127  | 6 - 50   |                    | Loop                |
|            | 128 - 255 | 51 - 100 |                    | Reserved            |

## FX Parameter: Explosion, continued

| Channel       | Value                           | Percent                     | Function            |   |
|---------------|---------------------------------|-----------------------------|---------------------|---|
| <b>HSI</b>    |                                 |                             |                     |   |
| 4             | 0 - 255                         | 0 - 100                     | <b>HUE</b>          | 1° - 360°                                   |
| 5             | 0 - 255                         | 0 - 100                     | <b>Saturation</b>   | 0 - 100%                                    |
| 6             | 0 - 255                         | 0 - 100                     | <b>Decay</b>        | 1 - 10                                      |
| 7             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                    |
| <b>GEL</b>    |                                 |                             |                     |   |
| 4             | 0 - 255                         | 0 - 100                     | <b>CCT</b>          | <a href="#">See Table in Mode 6: GEL</a>    |
| 5             | 0 - 255                         | 0 - 100                     | <b>Rosco / LEE</b>  |   |
| 6             | 0 - 255                         | 0 - 100                     | <b>Series</b>       |   |
| 7             | 0 - 255                         | 0 - 100                     | <b>Category</b>     |   |
| 8             | 0 - 255                         | 0 - 100                     | <b>Decay</b>        | 1 - 10                                      |
| 9             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                    |
| <b>XY</b>     |                                 |                             |                     |   |
| 4             | 0 - 255                         | 0 - 100                     | <b>X coordinate</b> | 0 - 0.8                                     |
| 5             | 0 - 255                         | 0 - 100                     | <b>Y coordinate</b> | 0 - 0.8                                     |
| 6             | 0 - 255                         | 0 - 100                     | <b>Decay</b>        | 1 - 10                                      |
| 7             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                    |
| <b>Source</b> |                                 |                             |                     |   |
| 4             | 0 - 255                         | 0 - 100                     | <b>Source</b>       | <a href="#">See Table in Mode 8: Source</a> |
| 5             | 0 - 255                         | 0 - 100                     | <b>Decay</b>        | 1 - 10                                      |
| 6             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                    |

**FX Parameter: Faulty Bulb**

| Channel    | Value     | Percent  | Function           |                     |
|------------|-----------|----------|--------------------|---------------------|
| <b>3</b>   | 0 - 9     | 0 - 4    | <b>Mode Select</b> | CCT                 |
|            | 10 - 19   | 5 - 8    |                    | HSI                 |
|            | 20 - 29   | 9 - 12   |                    | Gel                 |
|            | 30 - 39   | 13 - 16  |                    | X.Y                 |
|            | 40 - 49   | 17 - 20  |                    | Source              |
|            | 50 - 255  | 21 - 100 |                    | Reserved            |
| <b>CCT</b> |           |          |                    |                     |
| <b>4</b>   | 0 - 255   | 0 - 100  | <b>CCT</b>         | 2300 K - 10000K     |
| <b>5</b>   | 0 - 10    | 0 - 4    | <b>G / M</b>       | Neutral / No Effect |
|            | 11 - 20   | 5 - 8    |                    | Full Minus Green    |
|            | 21 - 119  | 9 - 47   |                    | - 99% - - 1%        |
|            | 120 - 145 | 48 - 57  |                    | Neutral / No Effect |
|            | 146 - 244 | 58 - 96  |                    | 1% - 99%            |
|            | 245 - 255 | 97 - 100 |                    | Full Plus Green     |
| <b>6</b>   | 0 - 9     | 0 - 4    | <b>Frequency</b>   | 1                   |
|            | 10 - 19   | 5 - 8    |                    | 2                   |
|            | 20 - 29   | 9 - 12   |                    | 3                   |
|            | 30 - 39   | 13 - 16  |                    | 4                   |
|            | 40 - 49   | 17 - 20  |                    | 5                   |
|            | 50 - 59   | 21 - 24  |                    | 6                   |
|            | 60 - 69   | 25 - 28  |                    | 7                   |
|            | 70 - 79   | 29 - 32  |                    | 8                   |
|            | 80 - 89   | 33 - 36  |                    | 9                   |
|            | 90 - 99   | 37 - 40  |                    | 10                  |
|            | 100 - 109 | 41 - 44  |                    | Random              |
|            | 110 - 255 | 45 - 100 |                    | Reserved            |
| <b>7</b>   | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1                   |
|            | 10 - 19   | 5 - 8    |                    | 2                   |
|            | 20 - 29   | 9 - 12   |                    | 3                   |
|            | 30 - 39   | 13 - 16  |                    | 4                   |
|            | 40 - 49   | 17 - 20  |                    | 5                   |
|            | 50 - 59   | 21 - 24  |                    | 6                   |
|            | 60 - 69   | 25 - 28  |                    | 7                   |
|            | 70 - 79   | 29 - 32  |                    | 8                   |
|            | 80 - 89   | 33 - 36  |                    | 9                   |
|            | 90 - 99   | 37 - 40  |                    | 10                  |
|            | 100 - 255 | 41 - 100 |                    | Reserved            |

**FX Parameter: Faulty Bulb, continued**

| Channel    | Value                           | Percent                     | Function            |  |
|------------|---------------------------------|-----------------------------|---------------------|--|
| <b>CCT</b> |                                 |                             |                     |  |
| <b>8</b>   | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                 |
| <b>HSI</b> |                                 |                             |                     |  |
| <b>4</b>   | 0 - 255                         | 0 - 100                     | <b>HUE</b>          | 1° - 360°                                |
| <b>5</b>   | 0 - 255                         | 0 - 100                     | <b>Saturation</b>   | 0 - 100%                                 |
| <b>6</b>   | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10 - Random                          |
| <b>7</b>   | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                   |
| <b>8</b>   | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                 |
| <b>GEL</b> |                                 |                             |                     |  |
| <b>4</b>   | 0 - 255                         | 0 - 100                     | <b>CCT</b>          | <a href="#">See Table in Mode 6: GEL</a> |
| <b>5</b>   | 0 - 255                         | 0 - 100                     | <b>Rosco / LEE</b>  |  |
| <b>6</b>   | 0 - 255                         | 0 - 100                     | <b>Series</b>       |  |
| <b>7</b>   | 0 - 255                         | 0 - 100                     | <b>Category</b>     |  |
| <b>8</b>   | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10 - Random                          |
| <b>9</b>   | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                   |
| <b>10</b>  | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                 |
| <b>XY</b>  |                                 |                             |                     |  |
| <b>4</b>   | 0 - 255                         | 0 - 100                     | <b>X coordinate</b> | 0 - 0.8                                  |
| <b>5</b>   | 0 - 255                         | 0 - 100                     | <b>Y coordinate</b> | 0 - 0.8                                  |
| <b>6</b>   | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10 - Random                          |
| <b>7</b>   | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                   |
| <b>8</b>   | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                 |

**Parameter: Faulty Bulb, continued**

| Channel       | Value                           | Percent                     | Function    |   |
|---------------|---------------------------------|-----------------------------|-------------|---|
| <b>Source</b> |                                 |                             |             |   |
| 4             | 0 - 255                         | 0 - 100                     | Source      | <a href="#">See Table in Mode 8: Source</a> |
| 5             | 0 - 255                         | 0 - 100                     | Frequency   | 1 - 10 - Random                             |
| 6             | 0 - 255                         | 0 - 100                     | Speed       | 1 - 10                                      |
| 7             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | Stop / Loop | Stop<br>Loop<br>Reserved                    |

**FX Parameter: Pulsing**

| Channel    | Value  | Percent  | Function    |   |
|------------|--|--|-------------|---|
| 3          | 0 - 9<br>10 - 19<br>20 - 29<br>30 - 39<br>40 - 49<br>50 - 255        | 0 - 4<br>5 - 8<br>9 - 12<br>13 - 16<br>17 - 20<br>21 - 100 | Mode Select | CCT<br>HSI<br>Gel<br>X.Y<br>Source<br>Reserved  |
| <b>CCT</b> |  |  |             |   |
| 4          | 0 - 255  | 0 - 100  | CCT         | 2300 K - 10000K   |
| 5          | 0 - 10<br>11 - 20<br>21 - 119<br>120 - 145<br>146 - 244<br>245 - 255 | 0 - 4<br>5 - 8<br>9 - 47<br>48 - 57<br>58 - 96<br>97 - 100 | G / M       | Neutral / No Effect<br>Full Minus Green<br>- 99% - - 1%<br>Neutral / No Effect<br>1% - 99%<br>Full Plus Green |

**FX Parameter: Pulsing, continued**

| Channel    | Value     | Percent  | Function           |           |
|------------|-----------|----------|--------------------|-----------|
| <b>CCT</b> |           |          |                    |           |
| <b>6</b>   | 0 - 9     | 0 - 4    | <b>Frequency</b>   | 1         |
|            | 10 - 19   | 5 - 8    |                    | 2         |
|            | 20 - 29   | 9 - 12   |                    | 3         |
|            | 30 - 39   | 13 - 16  |                    | 4         |
|            | 40 - 49   | 17 - 20  |                    | 5         |
|            | 50 - 59   | 21 - 24  |                    | 6         |
|            | 60 - 69   | 25 - 28  |                    | 7         |
|            | 70 - 79   | 29 - 32  |                    | 8         |
|            | 80 - 89   | 33 - 36  |                    | 9         |
|            | 90 - 99   | 37 - 40  |                    | 10        |
|            | 100 - 255 | 41 - 100 |                    | Reserved  |
| <b>7</b>   | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1         |
|            | 10 - 19   | 5 - 8    |                    | 2         |
|            | 20 - 29   | 9 - 12   |                    | 3         |
|            | 30 - 39   | 13 - 16  |                    | 4         |
|            | 40 - 49   | 17 - 20  |                    | 5         |
|            | 50 - 59   | 21 - 24  |                    | 6         |
|            | 60 - 69   | 25 - 28  |                    | 7         |
|            | 70 - 79   | 29 - 32  |                    | 8         |
|            | 80 - 89   | 33 - 36  |                    | 9         |
|            | 90 - 99   | 37 - 40  |                    | 10        |
|            | 100 - 255 | 41 - 100 |                    | Reserved  |
| <b>8</b>   | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop      |
|            | 11 - 127  | 6 - 50   |                    | Loop      |
|            | 128 - 255 | 51 - 100 |                    | Reserved  |
| <b>HSI</b> |           |          |                    |           |
| <b>4</b>   | 0 - 255   | 0 - 100  | <b>HUE</b>         | 1° - 360° |
| <b>5</b>   | 0 - 255   | 0 - 100  | <b>Saturation</b>  | 0 - 100%  |
| <b>6</b>   | 0 - 255   | 0 - 100  | <b>Frequency</b>   | 1 - 10    |
| <b>7</b>   | 0 - 255   | 0 - 100  | <b>Speed</b>       | 1 - 10    |
| <b>8</b>   | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop      |
|            | 11 - 127  | 6 - 50   |                    | Loop      |
|            | 128 - 255 | 51 - 100 |                    | Reserved  |



## FX Parameter: Pulsing, continued

| Channel       | Value                           | Percent                     | Function            |   |
|---------------|---------------------------------|-----------------------------|---------------------|---|
| <b>GEL</b>    |                                 |                             |                     |   |
| 4             | 0 - 255                         | 0 - 100                     | <b>CCT</b>          | <a href="#">See Table in Mode 6: GEL</a>    |
| 5             | 0 - 255                         | 0 - 100                     | <b>Rosco / LEE</b>  |   |
| 6             | 0 - 255                         | 0 - 100                     | <b>Series</b>       |   |
| 7             | 0 - 255                         | 0 - 100                     | <b>Category</b>     |   |
| 8             | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10                                      |
| 9             | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                      |
| 10            | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                    |
| <b>XY</b>     |                                 |                             |                     |   |
| 4             | 0 - 255                         | 0 - 100                     | <b>X coordinate</b> | 0 - 0.8                                     |
| 5             | 0 - 255                         | 0 - 100                     | <b>Y coordinate</b> | 0 - 0.8                                     |
| 6             | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10                                      |
| 7             | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                      |
| 8             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                    |
| <b>Source</b> |                                 |                             |                     |   |
| 4             | 0 - 255                         | 0 - 100                     | <b>Source</b>       | <a href="#">See Table in Mode 8: Source</a> |
| 5             | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10                                      |
| 6             | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                      |
| 7             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                    |

## FX Parameter: Welding

| Channel    | Value     | Percent         | Function              |                     |
|------------|-----------|-----------------|-----------------------|---------------------|
| <b>3</b>   | 0 - 9     | 0 - 4           | <b>Mode Select</b>    | CCT                 |
|            | 10 - 19   | 5 - 8           |                       | HSI                 |
|            | 20 - 29   | 9 - 12          |                       | Gel                 |
|            | 30 - 39   | 13 - 16         |                       | X.Y                 |
|            | 40 - 49   | 17 - 20         |                       | Source              |
|            | 50 - 255  | 21 - 100        |                       | Reserved            |
| <b>CCT</b> |           |                 |                       |                     |
| <b>4</b>   | 0 - 255   | 0 - 100         | <b>CCT</b>            | 2300 K - 10000K     |
| <b>5</b>   | 0 - 10    | 0 - 4           | <b>G / M</b>          | Neutral / No Effect |
|            | 11 - 20   | 5 - 8           |                       | Full Minus Green    |
|            | 21 - 119  | 9 - 47          |                       | - 99% - - 1%        |
|            | 120 - 145 | 48 - 57         |                       | Neutral / No Effect |
|            | 146 - 244 | 58 - 96         |                       | 1% - 99%            |
| 245 - 255  | 97 - 100  | Full Plus Green |                       |                     |
| <b>6</b>   | 0 - 9     | 0 - 4           | <b>Frequency</b>      | 1                   |
|            | 10 - 19   | 5 - 8           |                       | 2                   |
|            | 20 - 29   | 9 - 12          |                       | 3                   |
|            | 30 - 39   | 13 - 16         |                       | 4                   |
|            | 40 - 49   | 17 - 20         |                       | 5                   |
|            | 50 - 59   | 21 - 24         |                       | 6                   |
|            | 60 - 69   | 25 - 28         |                       | 7                   |
|            | 70 - 79   | 29 - 32         |                       | 8                   |
|            | 80 - 89   | 33 - 36         |                       | 9                   |
|            | 90 - 99   | 37 - 40         |                       | 10                  |
|            | 100 - 255 | 41 - 100        |                       | Reserved            |
| <b>7</b>   | 0 - 255   | 0 - 100         | <b>Min brightness</b> | 0 - 75%             |
| <b>8</b>   | 0 - 10    | 0 - 5           | <b>Stop / Loop</b>    | Stop                |
|            | 11 - 127  | 6 - 50          |                       | Loop                |
|            | 128 - 255 | 51 - 100        |                       | Reserved            |

**FX Parameter: Welding, continued**

| Channel    | Value                           | Percent                     | Function              |  |
|------------|---------------------------------|-----------------------------|-----------------------|--|
| <b>HSI</b> |                                 |                             |                       |  |
| 4          | 0 - 255                         | 0 - 100                     | <b>HUE</b>            | 1° - 360°                                |
| 5          | 0 - 255                         | 0 - 100                     | <b>Saturation</b>     | 0 - 100%                                 |
| 6          | 0 - 255                         | 0 - 100                     | <b>Frequency</b>      | 1 - 10                                   |
| 7          | 0 - 255                         | 0 - 100                     | <b>Min brightness</b> | 0 - 75%                                  |
| 8          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>    | Stop<br>Loop<br>Reserved                 |
| <b>GEL</b> |                                 |                             |                       |  |
| 4          | 0 - 255                         | 0 - 100                     | <b>CCT</b>            | <a href="#">See Table in Mode 6: GEL</a> |
| 5          | 0 - 255                         | 0 - 100                     | <b>Rosco / LEE</b>    |  |
| 6          | 0 - 255                         | 0 - 100                     | <b>Series</b>         |  |
| 7          | 0 - 255                         | 0 - 100                     | <b>Category</b>       |  |
| 8          | 0 - 255                         | 0 - 100                     | <b>Frequency</b>      | 1 - 10                                   |
| 9          | 0 - 255                         | 0 - 100                     | <b>Min brightness</b> | 0 - 75%                                  |
| 10         | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>    | Stop<br>Loop<br>Reserved                 |
| <b>XY</b>  |                                 |                             |                       |  |
| 4          | 0 - 255                         | 0 - 100                     | <b>X coordinate</b>   | 0 - 0.8                                  |
| 5          | 0 - 255                         | 0 - 100                     | <b>Y coordinate</b>   | 0 - 0.8                                  |
| 6          | 0 - 255                         | 0 - 100                     | <b>Frequency</b>      | 1 - 10                                   |
| 7          | 0 - 255                         | 0 - 100                     | <b>Min brightness</b> | 0 - 75%                                  |
| 8          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>    | Stop<br>Loop<br>Reserved                 |

**Parameter: Welding, continued**

| Channel       | Value                           | Percent                     | Function       |   |
|---------------|---------------------------------|-----------------------------|----------------|---|
| <b>Source</b> |                                 |                             |                |   |
| 4             | 0 - 255                         | 0 - 100                     | Source         | <a href="#">See Table in Mode 8: Source</a> |
| 5             | 0 - 255                         | 0 - 100                     | Frequency      | 1 - 10                                      |
| 6             | 0 - 255                         | 0 - 100                     | Min brightness | 0 - 75%                                     |
| 7             | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | Stop / Loop    | Stop<br>Loop<br>Reserved                    |

**FX Parameter: Cop car**

| Channel | Value   | Percent   | Function           |   |
|---------|---|---|--------------------|---|
| 3       | 0 - 9<br>10 - 19<br>20 - 29<br>30 - 39<br>40 - 49<br>50 - 255   | 0 - 4<br>5 - 8<br>9 - 12<br>13 - 16<br>17 - 20<br>21 - 100  | Color Combinations | Red<br>Blue<br>Red + Blue<br>Blue + White<br>Red + Blue + White<br>Reserved |
| 4       | 0 - 9<br>10 - 19<br>20 - 29<br>30 - 39<br>40 - 49<br>50 - 59<br>60 - 69<br>70 - 79<br>80 - 89<br>90 - 99<br>100 - 255 | 0 - 4<br>5 - 8<br>9 - 12<br>13 - 16<br>17 - 20<br>21 - 24<br>25 - 28<br>29 - 32<br>33 - 36<br>37 - 40<br>41 - 100 | Frequency          | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>Reserved                 |
| 5       | 0 - 10<br>11 - 127<br>128 - 255   | 0 - 5<br>6 - 50<br>51 - 100   | Stop / Loop        | Stop<br>Loop<br>Reserved  |

**FX Parameter: Color Chase**

| Channel  | Value     | Percent  | Function           |          |
|----------|-----------|----------|--------------------|----------|
| <b>3</b> | 0 - 255   | 0 - 100  | <b>Saturation</b>  | 0 - 100% |
| <b>4</b> | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1        |
|          | 10 - 19   | 5 - 8    |                    | 2        |
|          | 20 - 29   | 9 - 12   |                    | 3        |
|          | 30 - 39   | 13 - 16  |                    | 4        |
|          | 40 - 49   | 17 - 20  |                    | 5        |
|          | 50 - 59   | 21 - 24  |                    | 6        |
|          | 60 - 69   | 25 - 28  |                    | 7        |
|          | 70 - 79   | 29 - 32  |                    | 8        |
|          | 80 - 89   | 33 - 36  |                    | 9        |
|          | 90 - 99   | 37 - 40  |                    | 10       |
|          | 100 - 255 | 41 - 100 |                    | Reserved |
| <b>5</b> | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop     |
|          | 11 - 127  | 6 - 50   |                    | Loop     |
|          | 128 - 255 | 51 - 100 |                    | Reserved |

**FX Parameter: Party Lights**

| Channel  | Value     | Percent  | Function           |          |
|----------|-----------|----------|--------------------|----------|
| <b>3</b> | 0 - 255   | 0 - 100  | <b>Saturation</b>  | 0 - 100% |
| <b>4</b> | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1        |
|          | 10 - 19   | 5 - 8    |                    | 2        |
|          | 20 - 29   | 9 - 12   |                    | 3        |
|          | 30 - 39   | 13 - 16  |                    | 4        |
|          | 40 - 49   | 17 - 20  |                    | 5        |
|          | 50 - 59   | 21 - 24  |                    | 6        |
|          | 60 - 69   | 25 - 28  |                    | 7        |
|          | 70 - 79   | 29 - 32  |                    | 8        |
|          | 80 - 89   | 33 - 36  |                    | 9        |
|          | 90 - 99   | 37 - 40  |                    | 10       |
|          | 100 - 255 | 41 - 100 |                    | Reserved |
| <b>5</b> | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop     |
|          | 11 - 127  | 6 - 50   |                    | Loop     |
|          | 128 - 255 | 51 - 100 |                    | Reserved |

**FX Parameter: Fireworks**

| Channel  | Value     | Percent  | Function                  |          |
|----------|-----------|----------|---------------------------|----------|
| <b>3</b> | 0 - 9     | 0 - 4    | <b>Color Combinations</b> | CCT      |
|          | 10 - 19   | 5 - 8    |                           | HUE      |
|          | 20 - 29   | 9 - 12   |                           | CCT+HUE  |
|          | 30 - 255  | 13 - 100 |                           | Reserved |
| <b>4</b> | 0 - 9     | 0 - 4    | <b>Frequency</b>          | 1        |
|          | 10 - 19   | 5 - 8    |                           | 2        |
|          | 20 - 29   | 9 - 12   |                           | 3        |
|          | 30 - 39   | 13 - 16  |                           | 4        |
|          | 40 - 49   | 17 - 20  |                           | 5        |
|          | 50 - 59   | 21 - 24  |                           | 6        |
|          | 60 - 69   | 25 - 28  |                           | 7        |
|          | 70 - 79   | 29 - 32  |                           | 8        |
|          | 80 - 89   | 33 - 36  |                           | 9        |
|          | 90 - 99   | 37 - 40  |                           | 10       |
|          | 100 - 109 | 41 - 44  |                           | Random   |
|          | 110 - 255 | 45 - 100 |                           | Reserved |
| <b>5</b> | 0 - 10    | 0 - 5    | <b>Stop / Loop</b>        | Stop     |
|          | 11 - 127  | 6 - 50   |                           | Loop     |
|          | 128 - 255 | 51 - 100 |                           | Reserved |

**Mode 10: WW & RGB 8-bit**

| Channel  | Value   | Percent | Function          |          |
|----------|---------|---------|-------------------|----------|
| <b>1</b> | 0 - 255 | 0 - 100 | <b>Warm White</b> | 0 - 100% |
| <b>2</b> | 0 - 255 | 0 - 100 | <b>Cool White</b> | 0 - 100% |
| <b>3</b> | 0 - 255 | 0 - 100 | <b>Red</b>        | 0 - 100% |
| <b>4</b> | 0 - 255 | 0 - 100 | <b>Green</b>      | 0 - 100% |
| <b>5</b> | 0 - 255 | 0 - 100 | <b>Blue</b>       | 0 - 100% |

**Mode 11: Ultimate Mode 8-bit**

| Channel | Value  | Percent  | Function                       |           |
|---------|--|----------|--------------------------------|-----------|
| 1       | 0 - 255  | 0 - 100  | <b>Intensity</b>               | 0 - 100%  |
| 2       | 0 - 9  | 0 - 4    | <b>Lighting Mode Selection</b> | CCT & RGB |
|         | 10 - 19  | 5 - 8    |                                | CCT       |
|         | 20 - 29  | 9 - 12   |                                | CCT & HSI |
|         | 30 - 39  | 13 - 16  |                                | RGB       |
|         | 40 - 49  | 17 - 20  |                                | HSI       |
|         | 50 - 59  | 21 - 24  |                                | Gel       |
|         | 60 - 69  | 25 - 28  |                                | XY        |
|         | 70 - 79  | 29 - 32  |                                | Source    |
|         | 80 - 79  | 33 - 36  |                                | FX        |
|         | 90 - 255   | 37 - 100 |                                | Reserved  |
| 3       | See Lighting Mode Parameter Tables<br>in Following Pages |          |                                |           |
| 4       |  |          |                                |           |
| 5       |  |          |                                |           |
| 6       |  |          |                                |           |
| 7       |  |          |                                |           |
| 8       |  |          |                                |           |
| 9       |  |          |                                |           |
| 10      |  |          |                                |           |
| 11      |  |          |                                |           |

### Lighting Mode Parameter: CCT & RGB

| Channel | Value     | Percent  | Function         |                     |
|---------|-----------|----------|------------------|---------------------|
| 3       | 0 - 255   | 0 - 100  | <b>CCT</b>       | 2300 K - 10000 K    |
| 4       | 0 - 10    | 0 - 4    | <b>G / M</b>     | Neutral / No Effect |
|         | 11 - 20   | 5 - 8    |                  | Full Minus Green    |
|         | 21 - 119  | 9 - 47   |                  | - 99% - - 1%        |
|         | 120 - 145 | 48 - 57  |                  | Neutral / No Effect |
|         | 146 - 244 | 58 - 96  |                  | 1% - 99%            |
|         | 245 - 255 | 97 - 100 |                  | Full Plus Green     |
| 5       | 0 - 255   | 0 - 100  | <b>CCT ↔ RGB</b> | Crossfade to Color  |
| 6       | 0 - 255   | 0 - 100  | <b>Red</b>       | 0 - 100%            |
| 7       | 0 - 255   | 0 - 100  | <b>Green</b>     | 0 - 100%            |
| 8       | 0 - 255   | 0 - 100  | <b>Blue</b>      | 0 - 100%            |
| 9       | 0 - 19    | 0 - 7    | <b>Strobe</b>    | No Effect           |
|         | 20 - 255  | 8 - 100  |                  | 1 Hz - 25 Hz        |

### Lighting Mode Parameter: CCT

| Channel | Value     | Percent  | Function      |                     |
|---------|-----------|----------|---------------|---------------------|
| 3       | 0 - 255   | 0 - 100  | <b>CCT</b>    | 2300 K - 10000 K    |
| 4       | 0 - 10    | 0 - 4    | <b>G / M</b>  | Neutral / No Effect |
|         | 11 - 20   | 5 - 8    |               | Full Minus Green    |
|         | 21 - 119  | 9 - 47   |               | - 99% - - 1%        |
|         | 120 - 145 | 48 - 57  |               | Neutral / No Effect |
|         | 146 - 244 | 58 - 96  |               | 1% - 99%            |
|         | 245 - 255 | 97 - 100 |               | Full Plus Green     |
| 5       | 0 - 19    | 0 - 7    | <b>Strobe</b> | No Effect           |
|         | 20 - 255  | 8 - 100  |               | 1 Hz - 25 Hz        |



**Lighting Mode Parameter: CCT & HSI**

| Channel | Value     | Percent  | Function            |                     |
|---------|-----------|----------|---------------------|---------------------|
| 3       | 0 - 255   | 0 - 100  | <b>CCT</b>          | 2300 K - 10000 K    |
| 4       | 0 - 10    | 0 - 4    | <b>G / M</b>        | Neutral / No Effect |
|         | 11 - 20   | 5 - 8    |                     | Full Minus Green    |
|         | 21 - 119  | 9 - 47   |                     | - 99% - - 1%        |
|         | 120 - 145 | 48 - 57  |                     | Neutral / No Effect |
|         | 146 - 244 | 58 - 96  |                     | 1% - 99%            |
|         | 245 - 255 | 97 - 100 |                     | Full Plus Green     |
| 5       | 0 - 255   | 0 - 100  | <b>CCT ↔ HSI</b>    | Crossfade to Color  |
| 6       | 0 - 255   | 0 - 100  | <b>Hue</b>          | 1° - 360°           |
| 7       | 0 - 255   | 0 - 100  | <b>Saturation</b>   | 0 - 100%            |
| 8       | 0 - 255   | 0 - 100  | <b>HSI Base CCT</b> | 2300 K - 10000 K    |
| 9       | 0 - 19    | 0 - 7    | <b>Strobe</b>       | No Effect           |
|         | 20 - 255  | 80 - 100 |                     | 1 Hz - 25 Hz        |

**Lighting Mode Parameter: RGB**

| Channel | Value    | Percent  | Function      |              |
|---------|----------|----------|---------------|--------------|
| 3       | 0 - 255  | 0 - 100  | <b>Red</b>    | 0 - 100%     |
| 4       | 0 - 255  | 0 - 100  | <b>Green</b>  | 0 - 100%     |
| 5       | 0 - 255  | 0 - 100  | <b>Blue</b>   | 0 - 100%     |
| 6       | 0 - 19   | 0 - 7    | <b>Strobe</b> | No Effect    |
|         | 20 - 255 | 80 - 100 |               | 1 Hz - 25 Hz |

### Lighting Mode Parameter: HSI

| Channel | Value              | Percent          | Function   |                           |
|---------|--------------------|------------------|------------|---------------------------|
| 3       | 0 - 255            | 0 - 100          | Hue        | 1° - 360°                 |
| 4       | 0 - 255            | 0 - 100          | Saturation | 0 - 100%                  |
| 5       | 0 - 255            | 0 - 100          | CCT        | 2300 K - 10000 K          |
| 6       | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | Strobe     | No Effect<br>1 Hz - 25 Hz |

### Lighting Mode Parameter: GEL

| Channel | Value   | Percent  | Function    |  |
|---------|---|--|-------------|--|
| 1       | 0 - 255   | 0 - 100  | Intensity   | 0 - 100%   |
| 2       | 0 - 126<br>127 - 255  | 0 - 50<br>51 - 100   | CCT         | 3200K<br>5600K   |
| 3       | 0 - 29<br>30 - 59<br>60 - 255                                 | 0 - 12<br>13 - 24<br>25 - 100                              | Rosco / Lee | Rosco<br>Lee<br>Reserved   |
| 4       | 0 - 9<br>10 - 19<br>20 - 29<br>30 - 39<br>40 - 49<br>50 - 255 | 0 - 4<br>5 - 8<br>9 - 12<br>13 - 16<br>17 - 20<br>21 - 100 | Series      | R - Col.corr. / L - Col.corr.<br>R - CalColor / L - Col.Filters<br>R - Storaro / L - 600 Series<br>R - Cinelux / L - Cosmetic<br>R - Reserved / L - 700 Series<br>Reserved |
| 5       | 0 - 255   | 0 - 100  | Category    | <a href="#">See GEL Category Tables in Mode 6: GEL</a>   |
| 6       | 0 - 19<br>20 - 255  | 0 - 7<br>8 - 100   | Strobe      | No Effect<br>1 Hz - 25 Hz  |

**Lighting Mode Parameter: XY**

| Channel | Value              | Percent          | Function            |                           |
|---------|--------------------|------------------|---------------------|---------------------------|
| 3       | 0 - 255            | 0 - 100          | <b>X Coordinate</b> | 0 - 0.8                   |
| 4       | 0 - 255            | 0 - 100          | <b>Y Coordinate</b> | 0 - 0.8                   |
| 5       | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | <b>Strobe</b>       | No Effect<br>1 Hz - 25 Hz |

**Lighting Mode Parameter: Source**

| Channel | Value                | Percent            | Function               |  |
|---------|----------------------|--------------------|------------------------|--|
| 3       | 0 - 255              | 0 - 100            | <b>Source Matching</b> | <a href="#">See Tables in Mode 8: Source</a> |
| 4       | 0 - 127<br>128 - 255 | 0 - 49<br>50 - 100 | <b>X Coordinate</b>    | 0.0000 - +0.0050<br>0.0000 - - 0.0050        |
| 4       | 0 - 127<br>128 - 255 | 0 - 49<br>50 - 100 | <b>Y Coordinate</b>    | 0.0000 - +0.0050<br>0.0000 - - 0.0050        |
| 6       | 0 - 19<br>20 - 255   | 0 - 7<br>8 - 100   | <b>Strobe</b>          | No Effect<br>1 Hz - 25 Hz                    |

**Lighting Mode Parameter: FX**

| Channel   | Value   | Percent  | Function            |              |
|-----------|---|----------|---------------------|--------------|
| <b>3</b>  | 0 - 9   | 0 - 4    | <b>FX Selection</b> | Club Lights  |
|           | 10 - 19   | 5 - 8    |                     | Paparazzi    |
|           | 20 - 29   | 9 - 12   |                     | Lightning    |
|           | 30 - 39   | 13 - 16  |                     | TV           |
|           | 40 - 49   | 17 - 20  |                     | Candle       |
|           | 50 - 59   | 21 - 24  |                     | Fire         |
|           | 60 - 69   | 25 - 28  |                     | Strobe       |
|           | 70 - 79   | 29 - 32  |                     | Explosion    |
|           | 80 - 89   | 33 - 36  |                     | Faulty Bulb  |
|           | 90 - 99   | 37 - 40  |                     | Pulsing      |
|           | 100 - 109   | 41 - 44  |                     | Welding      |
|           | 110 - 119   | 45 - 48  |                     | Cop Car      |
|           | 120 - 129   | 49 - 52  |                     | Color Chase  |
|           | 130 - 139   | 53 - 56  |                     | Party Lights |
|           | 140 - 149   | 57 - 60  |                     | Fireworks    |
| 150 - 255 | 61 - 100  | Reserved |                     |              |
| <b>4</b>  | <a href="#">See FX Parameter Tables in Mode 9: FX 8-bit</a> |          |                     |              |
| <b>5</b>  |   |          |                     |              |
| <b>6</b>  |   |          |                     |              |
| <b>7</b>  |   |          |                     |              |
| <b>8</b>  |   |          |                     |              |
| <b>9</b>  |   |          |                     |              |
| <b>10</b> |   |          |                     |              |
| <b>11</b> |   |          |                     |              |

### Mode 12: CCT & RGB 16-bit

| Channel       |          | Value              | Percent          | Function         |   |
|---------------|----------|--------------------|------------------|------------------|---|
| HI            | LO       |                    |                  |                  |   |
| 1             | 2        | 0 - 65535          | 0 - 100          | <b>Intensity</b> | 0 - 100%  |
| 3             | 4        | 0 - 65535          | 0 - 100          | <b>CCT</b>       | 2300 K - 10000 K  |
| 5             | 6        | 0 - 4587           | 0 - 7            | <b>G / M</b>     | Neutral / No Effect<br>Full Minus Green<br>- 99% - - 1%<br>Neutral / No Effect<br>1% - 99%<br>Full Plus Green |
|               |          | 4588 - 9830        | 8 - 15           |                  |   |
|               |          | 9831 - 30145       | 16 - 46          |                  |   |
|               |          | 30146 - 39976      | 47 - 61          |                  |   |
|               |          | 39977 - 60292      | 62 - 92          |                  |   |
| 60293 - 65535 | 93 - 100 |                    |                  |                  |   |
| 7             | 8        | 0 - 65535          | 0 - 100          | <b>CCT ↔ RGB</b> | Crossfade to Color  |
| 9             | 10       | 0 - 65535          | 0 - 100          | <b>Red</b>       | 0 - 100%  |
| 11            | 12       | 0 - 65535          | 0 - 100          | <b>Green</b>     | 0 - 100%  |
| 13            | 14       | 0 - 65535          | 0 - 100          | <b>Blue</b>      | 0 - 100%  |
| 15            |          | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | <b>Strobe</b>    | No Effect<br>1 Hz - 25 Hz   |

### Mode 13: CCT 16-bit

| Channel       |          | Value              | Percent          | Function         |   |
|---------------|----------|--------------------|------------------|------------------|---|
| HI            | LO       |                    |                  |                  |   |
| 1             | 2        | 0 - 65535          | 0 - 100          | <b>Intensity</b> | 0 - 100%  |
| 3             | 4        | 0 - 65535          | 0 - 100          | <b>CCT</b>       | 2300 K - 10000 K  |
| 5             | 6        | 0 - 4587           | 0 - 7            | <b>G / M</b>     | Neutral / No Effect<br>Full Minus Green<br>- 99% - - 1%<br>Neutral / No Effect<br>1% - 99%<br>Full Plus Green |
|               |          | 4588 - 9830        | 8 - 15           |                  |   |
|               |          | 9831 - 30145       | 16 - 46          |                  |   |
|               |          | 30146 - 39976      | 47 - 61          |                  |   |
|               |          | 39977 - 60292      | 62 - 92          |                  |   |
| 60293 - 65535 | 93 - 100 |                    |                  |                  |   |
| 7             |          | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | <b>Strobe</b>    | No Effect<br>1 Hz - 25 Hz   |

**Mode 14: CCT & HSI 16-bit**

| Channel       |          | Value              | Percent          | Function            |   |
|---------------|----------|--------------------|------------------|---------------------|---|
| HI            | LO       |                    |                  |                     |   |
| 1             | 2        | 0 - 65535          | 0 - 100          | <b>Intensity</b>    | 0 - 100%  |
| 3             | 4        | 0 - 65535          | 0 - 100          | <b>CCT</b>          | 2300 K - 10000 K  |
| 5             | 6        | 0 - 4587           | 0 - 7            | <b>G / M</b>        | Neutral / No Effect<br>Full Minus Green<br>- 99% - - 1%<br>Neutral / No Effect<br>1% - 99%<br>Full Plus Green |
|               |          | 4588 - 9830        | 8 - 15           |                     |   |
|               |          | 9831 - 30145       | 16 - 46          |                     |   |
|               |          | 30146 - 39976      | 47 - 61          |                     |   |
|               |          | 39977 - 60292      | 62 - 92          |                     |   |
| 60293 - 65535 | 93 - 100 |                    |                  |                     |   |
| 7             | 8        | 0 - 65535          | 0 - 100          | <b>CCT ↔ HSI</b>    | Crossfade to Color  |
| 9             | 10       | 0 - 65535          | 0 - 100          | <b>Hue</b>          | 1 - 360°  |
| 11            | 12       | 0 - 65535          | 0 - 100          | <b>Saturation</b>   | 0 - 100%  |
| 13            | 14       | 0 - 65535          | 0 - 100          | <b>HSI Base CCT</b> | 2300 K - 10000 K  |
| 15            |          | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | <b>Strobe</b>       | No Effect<br>1 Hz - 25 Hz   |

**Mode 15: RGB 16-bit**

| Channel |    | Value              | Percent          | Function         |                           |
|---------|----|--------------------|------------------|------------------|---------------------------|
| HI      | LO |                    |                  |                  |                           |
| 1       | 2  | 0 - 65535          | 0 - 100          | <b>Intensity</b> | 0 - 100%                  |
| 3       | 4  | 0 - 65535          | 0 - 100          | <b>Red</b>       | 0 - 100%                  |
| 5       | 6  | 0 - 65535          | 0 - 100          | <b>Green</b>     | 0 - 100%                  |
| 7       | 8  | 0 - 65535          | 0 - 100          | <b>Blue</b>      | 0 - 100%                  |
| 9       |    | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | <b>Strobe</b>    | No Effect<br>1 Hz - 25 Hz |

### Mode 16: HSI 16-bit

| Channel |    | Value              | Percent          | Function     |                           |
|---------|----|--------------------|------------------|--------------|---------------------------|
| HI      | LO |                    |                  |              |                           |
| 1       | 2  | 0 - 65535          | 0 - 100          | Intensity    | 0 - 100%                  |
| 3       | 4  | 0 - 65535          | 0 - 100          | Hue          | 1 - 360°                  |
| 5       | 6  | 0 - 65535          | 0 - 100          | Saturation   | 0 - 100%                  |
| 7       | 8  | 0 - 65535          | 0 - 100          | HSI Base CCT | 2300 K - 10000 K          |
| 9       |    | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | Strobe       | No Effect<br>1 Hz - 25 Hz |

### Mode 17: GEL 16-bit

| Channel |    | Value   | Percent  | Function    |  |
|---------|----|---|--|-------------|--|
| HI      | LO |   |  |             |  |
| 1       | 2  | 0 - 255   | 0 - 100  | Intensity   | 0 - 100%   |
| 3       |    | 0 - 126<br>127 - 255  | 0 - 50<br>51 - 100   | CCT         | 3200K<br>5600K   |
| 4       |    | 0 - 29<br>30 - 59<br>60 - 255                                 | 0 - 12<br>13 - 24<br>25 - 100                              | Rosco / Lee | Rosco<br>Lee<br>Reserved   |
| 5       |    | 0 - 9<br>10 - 19<br>20 - 29<br>30 - 39<br>40 - 49<br>50 - 255 | 0 - 4<br>5 - 8<br>9 - 12<br>13 - 16<br>17 - 20<br>21 - 100 | Series      | R - Col.corr. / L - Col.corr.<br>R - CalColor / L - Col.Filters<br>R - Storaro / L - 600 Series<br>R - Cinelux / L - Cosmetic<br>R - Reserved / L - 700 Series<br>Reserved |
| 6       |    | 0 - 255   | 0 - 100  | Category    | See GEL Category Tables<br>Mode 6: Gel   |
| 7       |    | 0 - 19<br>20 - 255  | 0 - 7<br>8 - 100   | Strobe      | No Effect<br>1 Hz - 25 Hz  |

**Mode 18: XY 16-bit**

| Channel |    | Value              | Percent          | Function            |                           |
|---------|----|--------------------|------------------|---------------------|---------------------------|
| HI      | LO |                    |                  |                     |                           |
| 1       | 2  | 0 - 65535          | 0 - 100          | <b>Intensity</b>    | 0 - 100%                  |
| 3       | 4  | 0 - 65535          | 0 - 100          | <b>X Coordinate</b> | 0 - 0.8                   |
| 5       | 6  | 0 - 65535          | 0 - 100          | <b>Y Coordinate</b> | 0 - 0.8                   |
| 7       |    | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | <b>Strobe</b>       | No Effect<br>1 Hz - 25 Hz |

**Mode 19: Source 16-bit**

| Channel |    | Value   | Percent  | Function         |  |
|---------|----|---|--|------------------|--|
| HI      | LO |   |  |                  |  |
| 1       | 2  | 0 - 65535   | 0 - 100  | <b>Intensity</b> | 0 - 100%   |
| 3       |    | 0 - 2<br>3 - 5<br>6 - 8<br>9 - 11<br>12 - 14<br>15 - 17<br>18 - 20<br>21 - 23<br>24 - 26<br>27 - 29<br>30 - 32<br>33 - 35<br>36 - 38<br>39 - 41<br>42 - 44<br>45 - 47<br>48 - 50<br>51 - 53 | 0 - 1<br>2 - 3<br>4 - 5<br>6 - 7<br>8 - 9<br>10 - 11<br>12 - 13<br>14 - 15<br>16 - 17<br>18 - 19<br>20 - 21<br>22 - 23<br>24 - 25<br>26 - 27<br>28 - 29<br>30 - 31<br>32 - 33<br>34 - 35 | <b>Source</b>    | Tungsten Bulb<br>incandescent<br>Halogen<br>Antique Bulb<br>Warm Antique Bulb<br>Christmas Lights<br>Night Light<br>infrared Heat Lamp<br>Grow Light<br>CFL Soft White<br>CFL Bright White<br>CFL Cool White<br>CFL Daylight<br>Cool White 1<br>Cool White 2<br>Cool White 3<br>Warm White<br>CFL blacklight |



**Mode 19: Source 16-bit, continued**

| <b>Channel</b> | <b>Value</b> | <b>Percent</b> | <b>Function</b>     |                      |
|----------------|--------------|----------------|---------------------|----------------------|
| <b>3</b>       | 93 - 95      | 62 - 63        | <b>Source</b>       | Mobile Phone         |
|                | 96 - 98      | 64 - 65        |                     | Computer Monitor     |
|                | 99 - 101     | 66 - 67        |                     | Electroluminescence  |
|                | 102 - 104    | 68 - 69        |                     | Blow Torch           |
|                | 105 - 107    | 70 - 71        |                     | Road Flare           |
|                | 108 - 110    | 72 - 73        |                     | Amber Caution        |
|                | 111 - 113    | 74 - 75        |                     | Green Traffic Light  |
|                | 114 - 116    | 76 - 77        |                     | Yellow Traffic Light |
|                | 117 - 119    | 78 - 79        |                     | Red Traffic Light    |
|                | 120 - 122    | 80 - 81        |                     | Blue Glow Stick      |
|                | 123 - 125    | 82 - 83        |                     | Green Glow Stick     |
|                | 126 - 128    | 84 - 85        |                     | Red Glow Stick       |
|                | 129 - 131    | 86 - 87        |                     | Yellow Glow Stick    |
|                | 132 - 135    | 88 - 89        |                     | Pink Glow Stick      |
|                | 136 - 138    | 90 - 91        |                     | Violet Glow Stick    |
|                | 139 - 255    | 92 - 100       |                     | Reserved             |
| <b>4</b>       | 0 - 127      | 0 - 49         | <b>X Coordinate</b> | 0.0000 - +0.0050     |
|                | 128 - 255    | 50 - 100       |                     | 0.0000 - - 0.0050    |
| <b>5</b>       | 0 - 127      | 0 - 49         | <b>Y Coordinate</b> | 0.0000 - +0.0050     |
|                | 128 - 255    | 50 - 100       |                     | 0.0000 - - 0.0050    |
| <b>6</b>       | 0 - 19       | 0 - 7          | <b>Strobe</b>       | No Effect            |
|                | 20 - 255     | 8 - 100        |                     | 1 Hz - 25 Hz         |

**Mode 20: FX 16-bit - List of Effects**

| Channel |  | Value     | Percent  | Function            |              |
|---------|--|-----------|----------|---------------------|--------------|
| HI      | LO   |           |          |                     |              |
| 1 - 2   |  | 0 - 65535 | 0 - 100  | <b>Intensity</b>    | 0 - 100%     |
| 3       |  | 0 - 9     | 0 - 4    | <b>FX Selection</b> | Club Lights  |
|         |  | 10 - 19   | 5 - 8    |                     | Paparazzi    |
|         |  | 20 - 29   | 9 - 12   |                     | Lightning    |
|         |  | 30 - 39   | 13 - 16  |                     | TV           |
|         |  | 40 - 49   | 17 - 20  |                     | Candle       |
|         |  | 50 - 59   | 21 - 24  |                     | Fire         |
|         |  | 60 - 69   | 25 - 28  |                     | Strobe       |
|         |  | 70 - 79   | 29 - 32  |                     | Explosion    |
|         |  | 80 - 89   | 33 - 36  |                     | Faulty Bulb  |
|         |  | 90 - 99   | 37 - 40  |                     | Pulsing      |
|         |  | 100 - 109 | 41 - 44  |                     | Welding      |
|         |  | 110 - 119 | 45 - 48  |                     | Cop Car      |
|         |  | 120 - 129 | 49 - 52  |                     | Color Chase  |
|         |  | 130 - 139 | 53 - 56  |                     | Party Lights |
|         |  | 140 - 149 | 57 - 60  |                     | Fireworks    |
|         |  | 150 - 255 | 61 - 100 |                     | Reserved     |
| 4       | See FX Parameter Tables in Following Pages |           |          |                     |              |
| 5       |  |           |          |                     |              |
| 6       |  |           |          |                     |              |
| 7       |  |           |          |                     |              |
| 8       |  |           |          |                     |              |
| 9       |  |           |          |                     |              |
| 10      |  |           |          |                     |              |
| 11      |  |           |          |                     |              |
| 12      |  |           |          |                     |              |

**FX Parameter: Club Lights**

| Channel  | Value     | Percent  | Function             |          |
|----------|-----------|----------|----------------------|----------|
| <b>4</b> | 0 - 9     | 0 - 4    | <b>No. of Colors</b> | 3        |
|          | 10 - 19   | 5 - 8    |                      | 6        |
|          | 20 - 29   | 9 - 12   |                      | 9        |
|          | 30 - 39   | 13 - 16  |                      | 12       |
|          | 40 - 49   | 17 - 20  |                      | 15       |
|          | 50 - 59   | 21 - 24  |                      | 18       |
|          | 60 - 69   | 25 - 28  |                      | 24       |
|          | 70 - 79   | 29 - 32  |                      | 36       |
|          | 80 - 255  | 33 - 100 |                      | Reserved |
| <b>5</b> | 0 - 9     | 0 - 4    | <b>Speed</b>         | 1        |
|          | 10 - 19   | 5 - 8    |                      | 2        |
|          | 20 - 29   | 9 - 12   |                      | 3        |
|          | 30 - 39   | 13 - 16  |                      | 4        |
|          | 40 - 49   | 17 - 20  |                      | 5        |
|          | 50 - 59   | 21 - 24  |                      | 6        |
|          | 60 - 69   | 25 - 28  |                      | 7        |
|          | 70 - 79   | 29 - 32  |                      | 8        |
|          | 80 - 89   | 33 - 36  |                      | 9        |
|          | 90 - 99   | 37 - 40  |                      | 10       |
|          | 100 - 255 | 41 - 100 |                      | Reserved |
| <b>6</b> | 0 - 10    | 0 - 5    | <b>Stop / Loop</b>   | Stop     |
|          | 11 - 127  | 6 - 50   |                      | Loop     |
|          | 128 - 255 | 51 - 100 |                      | Reserved |

**FX Parameter: Paparazzi**

| Channel |    | Value         | Percent  | Function           |                     |
|---------|----|---------------|----------|--------------------|---------------------|
| HI      | LO |               |          |                    |                     |
| 4       | 5  | 0 - 65535     | 0 - 100  | <b>CCT</b>         | 2300 K - 10000 K    |
| 6       | 7  | 0 - 4587      | 0 - 7    | <b>G / M</b>       | Neutral / No Effect |
|         |    | 4588 - 9830   | 8 - 15   |                    | Full Minus Green    |
|         |    | 9831 - 30145  | 16 - 46  |                    | - 99% - - 1%        |
|         |    | 30146 - 39976 | 47 - 61  |                    | Neutral / No Effect |
|         |    | 39977 - 60292 | 62 - 92  |                    | 1% - 99%            |
|         |    | 60293 - 65535 | 93 - 100 |                    | Full Plus Green     |
| 8       |    | 0 - 9         | 0 - 4    | <b>Frequency</b>   | 1                   |
|         |    | 10 - 19       | 5 - 8    |                    | 2                   |
|         |    | 20 - 29       | 9 - 12   |                    | 3                   |
|         |    | 30 - 39       | 13 - 16  |                    | 4                   |
|         |    | 40 - 49       | 17 - 20  |                    | 5                   |
|         |    | 50 - 59       | 21 - 24  |                    | 6                   |
|         |    | 60 - 69       | 25 - 28  |                    | 7                   |
|         |    | 70 - 79       | 29 - 32  |                    | 8                   |
|         |    | 80 - 89       | 33 - 36  |                    | 9                   |
|         |    | 90 - 99       | 37 - 40  |                    | 10                  |
|         |    | 100 - 255     | 41 - 100 |                    | Reserved            |
| 9       |    | 0 - 10        | 0 - 5    | <b>Stop / Loop</b> | Stop                |
|         |    | 11 - 127      | 6 - 50   |                    | Loop                |
|         |    | 128 - 255     | 51 - 100 |                    | Reserved            |

**FX Parameter: Lightning**

| Channel |    | Value         | Percent  | Function                         |   |
|---------|----|---------------|----------|----------------------------------|---|
| HI      | LO |               |          |                                  |   |
| 4       | 5  | 0 - 65535     | 0 - 100  | <b>CCT</b>                       | 2300 K - 10000 K  |
| 6       | 7  | 0 - 4587      | 0 - 7    | <b>G / M</b>                     | Neutral / No Effect<br>Full Minus Green<br>- 99% - - 1%<br>Neutral / No Effect<br>1% - 99%<br>Full Plus Green |
|         |    | 4588 - 9830   | 8 - 15   |                                  |   |
|         |    | 9831 - 30145  | 16 - 46  |                                  |   |
|         |    | 30146 - 39976 | 47 - 61  |                                  |   |
|         |    | 39977 - 60292 | 62 - 92  |                                  |   |
|         |    | 60293 - 65535 | 93 - 100 |                                  |   |
| 8       |    | 0 - 9         | 0 - 4    | <b>Frequency</b>                 | 1   |
|         |    | 10 - 19       | 5 - 8    |                                  | 2   |
|         |    | 20 - 29       | 9 - 12   |                                  | 3   |
|         |    | 30 - 39       | 13 - 16  |                                  | 4   |
|         |    | 40 - 49       | 17 - 20  |                                  | 5   |
|         |    | 50 - 59       | 21 - 24  |                                  | 6   |
|         |    | 60 - 69       | 25 - 28  |                                  | 7   |
|         |    | 70 - 79       | 29 - 32  |                                  | 8   |
|         |    | 80 - 89       | 33 - 36  |                                  | 9   |
|         |    | 90 - 99       | 37 - 40  |                                  | 10  |
|         |    | 100 - 109     | 41 - 44  |                                  | Random  |
|         |    | 110 - 255     | 45 - 100 |                                  | Reserved  |
| 9       |    | 0 - 9         | 0 - 4    | <b>Speed</b>                     | 1   |
|         |    | 10 - 19       | 5 - 8    |                                  | 2   |
|         |    | 20 - 29       | 9 - 12   |                                  | 3   |
|         |    | 30 - 39       | 13 - 16  |                                  | 4   |
|         |    | 40 - 49       | 17 - 20  |                                  | 5   |
|         |    | 50 - 59       | 21 - 24  |                                  | 6   |
|         |    | 60 - 69       | 25 - 28  |                                  | 7   |
|         |    | 70 - 79       | 29 - 32  |                                  | 8   |
|         |    | 80 - 89       | 33 - 36  |                                  | 9   |
|         |    | 90 - 99       | 37 - 40  |                                  | 10  |
|         |    | 100 - 109     | 41 - 44  |                                  | Random  |
|         |    | 110 - 255     | 45 - 100 |                                  | Reserved  |
| 10      |    | 0 - 10        | 0 - 5    | <b>Stop / Trigger /<br/>Loop</b> | Stop<br>Trigger<br>Loop   |
|         |    | 11 - 127      | 6 - 50   |                                  |   |
|         |    | 128 - 255     | 51 - 100 |                                  |   |

**FX Parameter: TV**

| Channel  | Value     | Percent  | Function           |          |
|----------|-----------|----------|--------------------|----------|
| <b>4</b> | 0 - 9     | 0 - 4    | <b>CCT Range</b>   | Warmer   |
|          | 10 - 19   | 5 - 8    |                    | Natural  |
|          | 20 - 29   | 9 - 12   |                    | Cooler   |
|          | 30 - 255  | 13 - 100 |                    | Reserved |
| <b>5</b> | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1        |
|          | 10 - 19   | 5 - 8    |                    | 2        |
|          | 20 - 29   | 9 - 12   |                    | 3        |
|          | 30 - 39   | 13 - 16  |                    | 4        |
|          | 40 - 49   | 17 - 20  |                    | 5        |
|          | 50 - 59   | 21 - 24  |                    | 6        |
|          | 60 - 69   | 25 - 28  |                    | 7        |
|          | 70 - 79   | 29 - 32  |                    | 8        |
|          | 80 - 89   | 33 - 36  |                    | 9        |
|          | 90 - 99   | 37 - 40  |                    | 10       |
|          | 100 - 109 | 41 - 44  |                    | Random   |
|          | 110 - 255 | 45 - 100 |                    | Reserved |
| <b>6</b> | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop     |
|          | 11 - 127  | 6 - 50   |                    | Loop     |
|          | 128 - 255 | 51 - 100 |                    | Reserved |

**FX Parameter: Candle**

| Channel  | Value     | Percent  | Function           |          |
|----------|-----------|----------|--------------------|----------|
| <b>4</b> | 0 - 9     | 0 - 4    | <b>CCT Range</b>   | Warmer   |
|          | 10 - 19   | 4 - 8    |                    | Natural  |
|          | 20 - 29   | 8 - 12   |                    | Cooler   |
|          | 30 - 255  | 12 - 100 |                    | Reserved |
| <b>5</b> | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1        |
|          | 10 - 19   | 5 - 8    |                    | 2        |
|          | 20 - 29   | 9 - 12   |                    | 3        |
|          | 30 - 39   | 13 - 16  |                    | 4        |
|          | 40 - 49   | 17 - 20  |                    | 5        |
|          | 50 - 59   | 21 - 24  |                    | 6        |
|          | 60 - 69   | 25 - 28  |                    | 7        |
|          | 70 - 79   | 29 - 32  |                    | 8        |
|          | 80 - 89   | 33 - 36  |                    | 9        |
|          | 90 - 99   | 37 - 40  |                    | 10       |
|          | 100 - 255 | 41 - 100 |                    | Reserved |
| <b>6</b> | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop     |
|          | 11 - 127  | 6 - 50   |                    | Loop     |
|          | 128 - 255 | 51 - 100 |                    | Reserved |

**FX Parameter: Fire**

| Channel  | Value     | Percent  | Function           |          |
|----------|-----------|----------|--------------------|----------|
| <b>4</b> | 0 - 9     | 0 - 4    | <b>CCT Range</b>   | Warmer   |
|          | 10 - 19   | 4 - 8    |                    | Natural  |
|          | 20 - 29   | 8 - 12   |                    | Cooler   |
|          | 30 - 255  | 12 - 100 |                    | Reserved |
| <b>5</b> | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1        |
|          | 10 - 19   | 5 - 8    |                    | 2        |
|          | 20 - 29   | 9 - 12   |                    | 3        |
|          | 30 - 39   | 13 - 16  |                    | 4        |
|          | 40 - 49   | 17 - 20  |                    | 5        |
|          | 50 - 59   | 21 - 24  |                    | 6        |
|          | 60 - 69   | 25 - 28  |                    | 7        |
|          | 70 - 79   | 29 - 32  |                    | 8        |
|          | 80 - 89   | 33 - 36  |                    | 9        |
|          | 90 - 99   | 37 - 40  |                    | 10       |
|          | 100 - 255 | 41 - 100 |                    | Reserved |
| <b>6</b> | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop     |
|          | 11 - 127  | 6 - 50   |                    | Loop     |
|          | 128 - 255 | 51 - 100 |                    | Reserved |



**FX Parameter: Strobe**

| Channel    |           | Value         | Percent  | Function           |                     |
|------------|-----------|---------------|----------|--------------------|---------------------|
| <b>HI</b>  | <b>LO</b> |               |          |                    |                     |
| <b>4</b>   |           | 0 - 9         | 0 - 4    | <b>Mode Select</b> | CCT                 |
|            |           | 10 - 19       | 5 - 8    |                    | HSI                 |
|            |           | 20 - 29       | 9 - 12   |                    | Gel                 |
|            |           | 30 - 39       | 13 - 16  |                    | X.Y                 |
|            |           | 40 - 49       | 17 - 20  |                    | Source              |
|            |           | 50 - 255      | 21 - 100 |                    | Reserved            |
| <b>CCT</b> |           |               |          |                    |                     |
| <b>5</b>   | <b>6</b>  | 0 - 65535     | 0 - 100  | <b>CCT</b>         | 2300 K - 10000K     |
| <b>7</b>   | <b>8</b>  | 0 - 4587      | 0 - 7    | <b>G / M</b>       | Neutral / No Effect |
|            |           | 4588 - 9830   | 8 - 15   |                    | Full Minus Green    |
|            |           | 9831 - 30145  | 16 - 46  |                    | - 99% - - 1%        |
|            |           | 30146 - 39976 | 47 - 61  |                    | Neutral / No Effect |
|            |           | 39977 - 60292 | 62 - 92  |                    | 1% - 99%            |
|            |           | 60293 - 65535 | 93 - 100 |                    | Full Plus Green     |
| <b>9</b>   |           | 0 - 9         | 0 - 4    | <b>Speed</b>       | 1                   |
|            |           | 10 - 19       | 5 - 8    |                    | 2                   |
|            |           | 20 - 29       | 9 - 12   |                    | 3                   |
|            |           | 30 - 39       | 13 - 16  |                    | 4                   |
|            |           | 40 - 49       | 17 - 20  |                    | 5                   |
|            |           | 50 - 59       | 21 - 24  |                    | 6                   |
|            |           | 60 - 69       | 25 - 28  |                    | 7                   |
|            |           | 70 - 79       | 29 - 32  |                    | 8                   |
|            |           | 80 - 89       | 33 - 36  |                    | 9                   |
|            |           | 90 - 99       | 37 - 40  |                    | 10                  |
|            |           | 100 - 109     | 41 - 44  |                    | Random              |
|            |           | 110 - 255     | 45 - 100 |                    | Reserved            |
| <b>10</b>  |           | 0 - 10        | 0 - 5    | <b>Stop / Loop</b> | Stop                |
|            |           | 11 - 127      | 6 - 50   |                    | Loop                |
|            |           | 128 - 255     | 51 - 100 |                    | Reserved            |

### FX Parameter: Strobe, continued

| Channel       |          | Value                           | Percent                     | Function            |  |
|---------------|----------|---------------------------------|-----------------------------|---------------------|--|
| <b>HSI</b>    |          |                                 |                             |                     |  |
| <b>5</b>      | <b>6</b> | 0 - 65535                       | 0 - 100                     | <b>HUE</b>          | 1° - 360°                                    |
| <b>7</b>      | <b>8</b> | 0 - 65535                       | 0 - 100                     | <b>Saturation</b>   | 0 - 100%                                     |
| <b>9</b>      |          | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10 - Random                              |
| <b>10</b>     |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                     |
| <b>GEL</b>    |          |                                 |                             |                     |  |
| <b>5</b>      |          | 0 - 255                         | 0 - 100                     | <b>CCT</b>          | <a href="#">See Table in Mode 6: GEL</a>     |
| <b>6</b>      |          | 0 - 255                         | 0 - 100                     | <b>Rosco / LEE</b>  |  |
| <b>7</b>      |          | 0 - 255                         | 0 - 100                     | <b>Series</b>       |  |
| <b>8</b>      |          | 0 - 255                         | 0 - 100                     | <b>Category</b>     |  |
| <b>9</b>      |          | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10 - Random                              |
| <b>10</b>     |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                     |
| <b>XY</b>     |          |                                 |                             |                     |  |
| <b>5</b>      | <b>6</b> | 0 - 65535                       | 0 - 100                     | <b>X coordinate</b> | 0 - 0.8                                      |
| <b>7</b>      | <b>8</b> | 0 - 65535                       | 0 - 100                     | <b>Y coordinate</b> | 0 - 0.8                                      |
| <b>9</b>      |          | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10 - Random                              |
| <b>10</b>     |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                     |
| <b>Source</b> |          |                                 |                             |                     |  |
| <b>5</b>      |          | 0 - 255                         | 0 - 100                     | <b>Source</b>       | <a href="#">See Table in Mode 19: Source</a> |
| <b>6</b>      |          | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10 - Random                              |
| <b>7</b>      |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                     |

**FX Parameter:Explosion**

| Channel    |           | Value         | Percent  | Function           |                     |
|------------|-----------|---------------|----------|--------------------|---------------------|
| <b>HI</b>  | <b>LO</b> |               |          |                    |                     |
| <b>4</b>   |           | 0 - 9         | 0 - 4    | <b>Mode Select</b> | CCT                 |
|            |           | 10 - 19       | 5 - 8    |                    | HSI                 |
|            |           | 20 - 29       | 9 - 12   |                    | Gel                 |
|            |           | 30 - 39       | 13 - 16  |                    | X.Y                 |
|            |           | 40 - 49       | 17 - 20  |                    | Source              |
|            |           | 50 - 255      | 21 - 100 |                    | Reserved            |
| <b>CCT</b> |           |               |          |                    |                     |
| <b>5</b>   | <b>6</b>  | 0 - 65535     | 0 - 100  | <b>CCT</b>         | 2300 K - 10000K     |
| <b>7</b>   | <b>8</b>  | 0 - 4587      | 0 - 7    | <b>G / M</b>       | Neutral / No Effect |
|            |           | 4588 - 9830   | 8 - 15   |                    | Full Minus Green    |
|            |           | 9831 - 30145  | 16 - 46  |                    | - 99% - - 1%        |
|            |           | 30146 - 39976 | 47 - 61  |                    | Neutral / No Effect |
|            |           | 39977 - 60292 | 62 - 92  |                    | 1% - 99%            |
|            |           | 60293 - 65535 | 93 - 100 |                    | Full Plus Green     |
| <b>9</b>   |           | 0 - 9         | 0 - 4    | <b>Decay</b>       | 1                   |
|            |           | 10 - 19       | 5 - 8    |                    | 2                   |
|            |           | 20 - 29       | 9 - 12   |                    | 3                   |
|            |           | 30 - 39       | 13 - 16  |                    | 4                   |
|            |           | 40 - 49       | 17 - 20  |                    | 5                   |
|            |           | 50 - 59       | 21 - 24  |                    | 6                   |
|            |           | 60 - 69       | 25 - 28  |                    | 7                   |
|            |           | 70 - 79       | 29 - 32  |                    | 8                   |
|            |           | 80 - 89       | 33 - 36  |                    | 9                   |
|            |           | 90 - 99       | 37 - 40  |                    | 10                  |
|            |           | 100 - 255     | 41 - 100 |                    | Reserved            |
|            | <b>10</b> |               | 0 - 10   |                    | 0 - 5               |
|            |           | 11 - 127      | 6 - 50   | Loop               |                     |
|            |           | 128 - 255     | 51 - 100 | Reserved           |                     |

**FX Parameter: Explosion, continued**

| Channel       |          | Value                           | Percent                     | Function            |  |
|---------------|----------|---------------------------------|-----------------------------|---------------------|--|
| <b>HSI</b>    |          |                                 |                             |                     |  |
| <b>5</b>      | <b>6</b> | 0 - 65535                       | 0 - 100                     | <b>HUE</b>          | 1° - 360°  |
| <b>7</b>      | <b>8</b> | 0 - 65535                       | 0 - 100                     | <b>Saturation</b>   | 0 - 100%   |
| <b>9</b>      |          | 0 - 255                         | 0 - 100                     | <b>Decay</b>        | 1 - 10   |
| <b>10</b>     |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                         |
| <b>GEL</b>    |          |                                 |                             |                     |  |
| <b>5</b>      |          | 0 - 255                         | 0 - 100                     | <b>CCT</b>          | <a href="#">See Table in Mode 6: GEL</a>         |
| <b>6</b>      |          | 0 - 255                         | 0 - 100                     | <b>Rosco / LEE</b>  |  |
| <b>7</b>      |          | 0 - 255                         | 0 - 100                     | <b>Series</b>       |  |
| <b>8</b>      |          | 0 - 255                         | 0 - 100                     | <b>Category</b>     |  |
| <b>9</b>      |          | 0 - 255                         | 0 - 100                     | <b>Decay</b>        | 1 - 10   |
| <b>10</b>     |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                         |
| <b>XY</b>     |          |                                 |                             |                     |  |
| <b>5</b>      | <b>6</b> | 0 - 65535                       | 0 - 100                     | <b>X coordinate</b> | 0 - 0.8  |
| <b>7</b>      | <b>8</b> | 0 - 65535                       | 0 - 100                     | <b>Y coordinate</b> | 0 - 0.8  |
| <b>9</b>      |          | 0 - 255                         | 0 - 100                     | <b>Decay</b>        | 1 - 10   |
| <b>10</b>     |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                         |
| <b>Source</b> |          |                                 |                             |                     |  |
| <b>5</b>      |          | 0 - 255                         | 0 - 100                     | <b>Source</b>       | <a href="#">See Table in Mode 19:<br/>Source</a> |
| <b>6</b>      |          | 0 - 255                         | 0 - 100                     | <b>Decay</b>        | 1 - 10   |
| <b>7</b>      |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                         |

**FX Parameter: Faulty Bulb**

| Channel    |    | Value         | Percent  | Function    |                     |
|------------|----|---------------|----------|-------------|---------------------|
| HI         | LO |               |          |             |                     |
| 4          |    | 0 - 9         | 0 - 4    | Mode Select | CCT                 |
|            |    | 10 - 19       | 5 - 8    |             | HSI                 |
|            |    | 20 - 29       | 9 - 12   |             | Gel                 |
|            |    | 30 - 39       | 13 - 16  |             | X.Y                 |
|            |    | 40 - 49       | 17 - 20  |             | Source              |
|            |    | 50 - 255      | 21 - 100 |             | Reserved            |
| <b>CCT</b> |    |               |          |             |                     |
| 5          | 6  | 0 - 65535     | 0 - 100  | CCT         | 2300 K - 10000K     |
| 7          | 8  | 0 - 4587      | 0 - 7    | G / M       | Neutral / No Effect |
|            |    | 4588 - 9830   | 8 - 15   |             | Full Minus Green    |
|            |    | 9831 - 30145  | 16 - 46  |             | - 99% - - 1%        |
|            |    | 30146 - 39976 | 47 - 61  |             | Neutral / No Effect |
|            |    | 39977 - 60292 | 62 - 92  |             | 1% - 99%            |
|            |    | 60293 - 65535 | 93 - 100 |             | Full Plus Green     |
| 9          |    | 0 - 9         | 0 - 4    | Frequency   | 1                   |
|            |    | 10 - 19       | 5 - 8    |             | 2                   |
|            |    | 20 - 29       | 9 - 12   |             | 3                   |
|            |    | 30 - 39       | 13 - 16  |             | 4                   |
|            |    | 40 - 49       | 17 - 20  |             | 5                   |
|            |    | 50 - 59       | 21 - 24  |             | 6                   |
|            |    | 60 - 69       | 25 - 28  |             | 7                   |
|            |    | 70 - 79       | 29 - 32  |             | 8                   |
|            |    | 80 - 89       | 33 - 36  |             | 9                   |
|            |    | 90 - 99       | 37 - 40  |             | 10                  |
|            |    | 100 - 109     | 41 - 44  |             | Random              |
|            |    | 110 - 255     | 45 - 100 |             | Reserved            |
| 10         |    | 0 - 9         | 0 - 4    | Speed       | 1                   |
|            |    | 10 - 19       | 5 - 8    |             | 2                   |
|            |    | 20 - 29       | 9 - 12   |             | 3                   |
|            |    | 30 - 39       | 13 - 16  |             | 4                   |
|            |    | 40 - 49       | 17 - 20  |             | 5                   |
|            |    | 50 - 59       | 21 - 24  |             | 6                   |
|            |    | 60 - 69       | 25 - 28  |             | 7                   |
|            |    | 70 - 79       | 29 - 32  |             | 8                   |
|            |    | 80 - 89       | 33 - 36  |             | 9                   |
|            |    | 90 - 99       | 37 - 40  |             | 10                  |
|            |    | 100 - 255     | 41 - 100 |             | Reserved            |

### FX Parameter: Faulty Bulb, continued

| Channel    |          | Value                           | Percent                     | Function            |  |
|------------|----------|---------------------------------|-----------------------------|---------------------|--|
| <b>CCT</b> |          |                                 |                             |                     |  |
| <b>11</b>  |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                 |
| <b>HSI</b> |          |                                 |                             |                     |  |
| <b>5</b>   | <b>6</b> | 0 - 65535                       | 0 - 100                     | <b>HUE</b>          | 1° - 360°                                |
| <b>7</b>   | <b>8</b> | 0 - 65535                       | 0 - 100                     | <b>Saturation</b>   | 0 - 100%                                 |
| <b>9</b>   |          | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10 - Random                          |
| <b>10</b>  |          | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                   |
| <b>11</b>  |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                 |
| <b>GEL</b> |          |                                 |                             |                     |  |
| <b>5</b>   |          | 0 - 255                         | 0 - 100                     | <b>CCT</b>          | <a href="#">See Table in Mode 6: GEL</a> |
| <b>6</b>   |          | 0 - 255                         | 0 - 100                     | <b>Rosco / LEE</b>  |  |
| <b>7</b>   |          | 0 - 255                         | 0 - 100                     | <b>Series</b>       |  |
| <b>8</b>   |          | 0 - 255                         | 0 - 100                     | <b>Category</b>     |  |
| <b>9</b>   |          | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10 - Random                          |
| <b>10</b>  |          | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                   |
| <b>11</b>  |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                 |
| <b>XY</b>  |          |                                 |                             |                     |  |
| <b>5</b>   | <b>6</b> | 0 - 65535                       | 0 - 100                     | <b>X coordinate</b> | 0 - 0.8                                  |
| <b>7</b>   | <b>8</b> | 0 - 65535                       | 0 - 100                     | <b>Y coordinate</b> | 0 - 0.8                                  |
| <b>9</b>   |          | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10 - Random                          |
| <b>10</b>  |          | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                   |
| <b>11</b>  |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                 |

**Parameter: Faulty Bulb, continued**

| Channel       |  | Value                           | Percent                     | Function           |  |
|---------------|--|---------------------------------|-----------------------------|--------------------|--|
| <b>Source</b> |  |                                 |                             |                    |  |
| <b>5</b>      |  | 0 - 255                         | 0 - 100                     | <b>Source</b>      | <a href="#">See Table in Mode 19: Source</a> |
| <b>6</b>      |  | 0 - 255                         | 0 - 100                     | <b>Frequency</b>   | 1 - 10 - Random                              |
| <b>7</b>      |  | 0 - 255                         | 0 - 100                     | <b>Speed</b>       | 1 - 10                                       |
| <b>8</b>      |  | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b> | Stop<br>Loop<br>Reserved                     |

**FX Parameter: Pulsing**

| Channel    |           | Value  | Percent  | Function           |   |
|------------|-----------|--|--|--------------------|---|
| <b>HI</b>  | <b>LO</b> |  |  |                    |   |
| <b>4</b>   |           | 0 - 9<br>10 - 19<br>20 - 29<br>30 - 39<br>40 - 49<br>50 - 255                              | 0 - 4<br>5 - 8<br>9 - 12<br>13 - 16<br>17 - 20<br>21 - 100   | <b>Mode Select</b> | CCT<br>HSI<br>Gel<br>X.Y<br>Source<br>Reserved  |
| <b>CCT</b> |           |  |  |                    |   |
| <b>5</b>   | <b>6</b>  | 0 - 65535  | 0 - 100  | <b>CCT</b>         | 2300 K - 10000K   |
| <b>7</b>   | <b>8</b>  | 0 - 4587<br>4588 - 9830<br>9831 - 30145<br>30146 - 39976<br>39977 - 60292<br>60293 - 65535 | 0 - 7<br>8 - 15<br>16 - 46<br>47 - 61<br>62 - 92<br>93 - 100 | <b>G / M</b>       | Neutral / No Effect<br>Full Minus Green<br>- 99% - - 1%<br>Neutral / No Effect<br>1% - 99%<br>Full Plus Green |

**FX Parameter: Pulsing, continued**

| Channel    |          | Value     | Percent  | Function           |           |
|------------|----------|-----------|----------|--------------------|-----------|
| <b>CCT</b> |          |           |          |                    |           |
| <b>9</b>   |          | 0 - 9     | 0 - 4    | <b>Frequency</b>   | 1         |
|            |          | 10 - 19   | 5 - 8    |                    | 2         |
|            |          | 20 - 29   | 9 - 12   |                    | 3         |
|            |          | 30 - 39   | 13 - 16  |                    | 4         |
|            |          | 40 - 49   | 17 - 20  |                    | 5         |
|            |          | 50 - 59   | 21 - 24  |                    | 6         |
|            |          | 60 - 69   | 25 - 28  |                    | 7         |
|            |          | 70 - 79   | 29 - 32  |                    | 8         |
|            |          | 80 - 89   | 33 - 36  |                    | 9         |
|            |          | 90 - 99   | 37 - 40  |                    | 10        |
|            |          | 100 - 255 | 41 - 100 |                    | Reserved  |
| <b>10</b>  |          | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1         |
|            |          | 10 - 19   | 5 - 8    |                    | 2         |
|            |          | 20 - 29   | 9 - 12   |                    | 3         |
|            |          | 30 - 39   | 13 - 16  |                    | 4         |
|            |          | 40 - 49   | 17 - 20  |                    | 5         |
|            |          | 50 - 59   | 21 - 24  |                    | 6         |
|            |          | 60 - 69   | 25 - 28  |                    | 7         |
|            |          | 70 - 79   | 29 - 32  |                    | 8         |
|            |          | 80 - 89   | 33 - 36  |                    | 9         |
|            |          | 90 - 99   | 37 - 40  |                    | 10        |
|            |          | 100 - 255 | 41 - 100 |                    | Reserved  |
| <b>11</b>  |          | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop      |
|            |          | 11 - 127  | 6 - 50   |                    | Loop      |
|            |          | 128 - 255 | 51 - 100 |                    | Reserved  |
| <b>HSI</b> |          |           |          |                    |           |
| <b>5</b>   | <b>6</b> | 0 - 65535 | 0 - 100  | <b>HUE</b>         | 1° - 360° |
| <b>7</b>   | <b>8</b> | 0 - 65535 | 0 - 100  | <b>Saturation</b>  | 0 - 100%  |
| <b>9</b>   |          | 0 - 255   | 0 - 100  | <b>Frequency</b>   | 1 - 10    |
| <b>10</b>  |          | 0 - 255   | 0 - 100  | <b>Speed</b>       | 1 - 10    |
| <b>11</b>  |          | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop      |
|            |          | 11 - 127  | 6 - 50   |                    | Loop      |
|            |          | 128 - 255 | 51 - 100 |                    | Reserved  |



## FX Parameter: Pulsing, continued

| Channel       |          | Value                           | Percent                     | Function            |  |
|---------------|----------|---------------------------------|-----------------------------|---------------------|--|
| <b>GEL</b>    |          |                                 |                             |                     |  |
| <b>5</b>      |          | 0 - 255                         | 0 - 100                     | <b>CCT</b>          | <a href="#">See Table in Mode 6: GEL</a>     |
| <b>6</b>      |          | 0 - 255                         | 0 - 100                     | <b>Rosco / LEE</b>  |  |
| <b>7</b>      |          | 0 - 255                         | 0 - 100                     | <b>Series</b>       |  |
| <b>8</b>      |          | 0 - 255                         | 0 - 100                     | <b>Category</b>     |  |
| <b>9</b>      |          | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10                                       |
| <b>10</b>     |          | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                       |
| <b>11</b>     |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                     |
| <b>XY</b>     |          |                                 |                             |                     |  |
| <b>5</b>      | <b>6</b> | 0 - 65535                       | 0 - 100                     | <b>X coordinate</b> | 0 - 0.8                                      |
| <b>7</b>      | <b>8</b> | 0 - 65535                       | 0 - 100                     | <b>Y coordinate</b> | 0 - 0.8                                      |
| <b>9</b>      |          | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10                                       |
| <b>10</b>     |          | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                       |
| <b>11</b>     |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                     |
| <b>Source</b> |          |                                 |                             |                     |  |
| <b>5</b>      |          | 0 - 255                         | 0 - 100                     | <b>Source</b>       | <a href="#">See Table in Mode 19: Source</a> |
| <b>6</b>      |          | 0 - 255                         | 0 - 100                     | <b>Frequency</b>    | 1 - 10                                       |
| <b>7</b>      |          | 0 - 255                         | 0 - 100                     | <b>Speed</b>        | 1 - 10                                       |
| <b>8</b>      |          | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>  | Stop<br>Loop<br>Reserved                     |

**FX Parameter: Welding**

| Channel    |           | Value         | Percent  | Function              |                     |
|------------|-----------|---------------|----------|-----------------------|---------------------|
| <b>HI</b>  | <b>LO</b> |               |          |                       |                     |
| <b>4</b>   |           | 0 - 9         | 0 - 4    | <b>Mode Select</b>    | CCT                 |
|            |           | 10 - 19       | 5 - 8    |                       | HSI                 |
|            |           | 20 - 29       | 9 - 12   |                       | Gel                 |
|            |           | 30 - 39       | 13 - 16  |                       | X.Y                 |
|            |           | 40 - 49       | 17 - 20  |                       | Source              |
|            |           | 50 - 255      | 21 - 100 |                       | Reserved            |
| <b>CCT</b> |           |               |          |                       |                     |
| <b>5</b>   | <b>6</b>  | 0 - 65535     | 0 - 100  | <b>CCT</b>            | 2300 K - 10000K     |
| <b>7</b>   | <b>8</b>  | 0 - 4587      | 0 - 7    | <b>G / M</b>          | Neutral / No Effect |
|            |           | 4588 - 9830   | 8 - 15   |                       | Full Minus Green    |
|            |           | 9831 - 30145  | 16 - 46  |                       | - 99% - - 1%        |
|            |           | 30146 - 39976 | 47 - 61  |                       | Neutral / No Effect |
|            |           | 39977 - 60292 | 62 - 92  |                       | 1% - 99%            |
|            |           | 60293 - 65535 | 93 - 100 |                       | Full Plus Green     |
| <b>9</b>   |           | 0 - 9         | 0 - 4    | <b>Frequency</b>      | 1                   |
|            |           | 10 - 19       | 5 - 8    |                       | 2                   |
|            |           | 20 - 29       | 9 - 12   |                       | 3                   |
|            |           | 30 - 39       | 13 - 16  |                       | 4                   |
|            |           | 40 - 49       | 17 - 20  |                       | 5                   |
|            |           | 50 - 59       | 21 - 24  |                       | 6                   |
|            |           | 60 - 69       | 25 - 28  |                       | 7                   |
|            |           | 70 - 79       | 29 - 32  |                       | 8                   |
|            |           | 80 - 89       | 33 - 36  |                       | 9                   |
|            |           | 90 - 99       | 37 - 40  |                       | 10                  |
|            |           | 100 - 255     | 41 - 100 |                       | Reserved            |
| <b>10</b>  | <b>11</b> | 0 - 65535     | 0 - 100  | <b>Min brightness</b> | 0 - 75%             |
| <b>12</b>  |           | 0 - 10        | 0 - 5    | <b>Stop / Loop</b>    | Stop                |
|            |           | 11 - 127      | 6 - 50   |                       | Loop                |
|            |           | 128 - 255     | 51 - 100 |                       | Reserved            |

**FX Parameter: Welding, continued**

| Channel    |           | Value                           | Percent                     | Function              |  |
|------------|-----------|---------------------------------|-----------------------------|-----------------------|--|
| <b>HSI</b> |           |                                 |                             |                       |  |
| <b>5</b>   | <b>6</b>  | 0 - 65535                       | 0 - 100                     | <b>HUE</b>            | 1° - 360°                                |
| <b>7</b>   | <b>8</b>  | 0 - 65535                       | 0 - 100                     | <b>Saturation</b>     | 0 - 100%                                 |
| <b>9</b>   |           | 0 - 255                         | 0 - 100                     | <b>Frequency</b>      | 1 - 10                                   |
| <b>10</b>  | <b>11</b> | 0 - 65535                       | 0 - 100                     | <b>Min brightness</b> | 0 - 75%                                  |
| <b>12</b>  |           | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>    | Stop<br>Loop<br>Reserved                 |
| <b>GEL</b> |           |                                 |                             |                       |  |
| <b>5</b>   |           | 0 - 255                         | 0 - 100                     | <b>CCT</b>            | <a href="#">See Table in Mode 6: GEL</a> |
| <b>6</b>   |           | 0 - 255                         | 0 - 100                     | <b>Rosco / LEE</b>    |  |
| <b>7</b>   |           | 0 - 255                         | 0 - 100                     | <b>Series</b>         |  |
| <b>8</b>   |           | 0 - 255                         | 0 - 100                     | <b>Category</b>       |  |
| <b>9</b>   |           | 0 - 255                         | 0 - 100                     | <b>Frequency</b>      | 1 - 10                                   |
| <b>10</b>  | <b>11</b> | 0 - 65535                       | 0 - 100                     | <b>Min brightness</b> | 0 - 75%                                  |
| <b>12</b>  |           | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>    | Stop<br>Loop<br>Reserved                 |
| <b>XY</b>  |           |                                 |                             |                       |  |
| <b>5</b>   | <b>6</b>  | 0 - 65535                       | 0 - 100                     | <b>X coordinate</b>   | 0 - 0.8                                  |
| <b>7</b>   | <b>8</b>  | 0 - 65535                       | 0 - 100                     | <b>Y coordinate</b>   | 0 - 0.8                                  |
| <b>9</b>   |           | 0 - 255                         | 0 - 100                     | <b>Frequency</b>      | 1 - 10                                   |
| <b>10</b>  | <b>11</b> | 0 - 65535                       | 0 - 100                     | <b>Min brightness</b> | 0 - 75%                                  |
| <b>12</b>  |           | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b>    | Stop<br>Loop<br>Reserved                 |

**Parameter: Welding, continued**

| Channel       | Value                           | Percent                     | Function           |  |         |
|---------------|---------------------------------|-----------------------------|--------------------|--|---------|
| <b>Source</b> |                                 |                             |                    |  |         |
| <b>5</b>      | 0 - 255                         | 0 - 100                     | <b>Source</b>      | <a href="#">See Table in Mode 19: Source</a> |         |
| <b>6</b>      | 0 - 255                         | 0 - 100                     | <b>Frequency</b>   | 1 - 10                                       |         |
| <b>7</b>      | <b>8</b>                        | 0 - 65535                   | 0 - 100            | <b>Min brightness</b>                        | 0 - 75% |
| <b>9</b>      | 0 - 10<br>11 - 127<br>128 - 255 | 0 - 5<br>6 - 50<br>51 - 100 | <b>Stop / Loop</b> | Stop<br>Loop<br>Reserved                     |         |

**FX Parameter: Cop car**

| Channel  | Value   | Percent   | Function                  |   |
|----------|---|---|---------------------------|---|
| <b>4</b> | 0 - 9<br>10 - 19<br>20 - 29<br>30 - 39<br>40 - 49<br>50 - 255   | 0 - 4<br>5 - 8<br>9 - 12<br>13 - 16<br>17 - 20<br>21 - 100  | <b>Color Combinations</b> | Red<br>Blue<br>Red + Blue<br>Blue + White<br>Red + Blue + White<br>Reserved |
| <b>5</b> | 0 - 9<br>10 - 19<br>20 - 29<br>30 - 39<br>40 - 49<br>50 - 59<br>60 - 69<br>70 - 79<br>80 - 89<br>90 - 99<br>100 - 255 | 0 - 4<br>5 - 8<br>9 - 12<br>13 - 16<br>17 - 20<br>21 - 24<br>25 - 28<br>29 - 32<br>33 - 36<br>37 - 40<br>41 - 100 | <b>Frequency</b>          | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>Reserved                 |
| <b>6</b> | 0 - 10<br>11 - 127<br>128 - 255   | 0 - 5<br>6 - 50<br>51 - 100   | <b>Stop / Loop</b>        | Stop<br>Loop<br>Reserved  |

**FX Parameter: Color Chase**

| Channel  |          | Value     | Percent  | Function           |          |
|----------|----------|-----------|----------|--------------------|----------|
| HI       | LO       |           |          |                    |          |
| <b>4</b> | <b>5</b> | 0 - 65535 | 0 - 100  | <b>Saturation</b>  | 0 - 100% |
| <b>6</b> |          | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1        |
|          |          | 10 - 19   | 5 - 8    |                    | 2        |
|          |          | 20 - 29   | 9 - 12   |                    | 3        |
|          |          | 30 - 39   | 13 - 16  |                    | 4        |
|          |          | 40 - 49   | 17 - 20  |                    | 5        |
|          |          | 50 - 59   | 21 - 24  |                    | 6        |
|          |          | 60 - 69   | 25 - 28  |                    | 7        |
|          |          | 70 - 79   | 29 - 32  |                    | 8        |
|          |          | 80 - 89   | 33 - 36  |                    | 9        |
|          |          | 90 - 99   | 37 - 40  |                    | 10       |
|          |          | 100 - 255 | 41 - 100 |                    | Reserved |
| <b>7</b> |          | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop     |
|          |          | 11 - 127  | 6 - 50   |                    | Loop     |
|          |          | 128 - 255 | 51 - 100 |                    | Reserved |

**FX Parameter: Party Lights**

| Channel  |          | Value     | Percent  | Function           |          |
|----------|----------|-----------|----------|--------------------|----------|
| HI       | LO       |           |          |                    |          |
| <b>4</b> | <b>5</b> | 0 - 65535 | 0 - 100  | <b>Saturation</b>  | 0 - 100% |
| <b>6</b> |          | 0 - 9     | 0 - 4    | <b>Speed</b>       | 1        |
|          |          | 10 - 19   | 5 - 8    |                    | 2        |
|          |          | 20 - 29   | 9 - 12   |                    | 3        |
|          |          | 30 - 39   | 13 - 16  |                    | 4        |
|          |          | 40 - 49   | 17 - 20  |                    | 5        |
|          |          | 50 - 59   | 21 - 24  |                    | 6        |
|          |          | 60 - 69   | 25 - 28  |                    | 7        |
|          |          | 70 - 79   | 29 - 32  |                    | 8        |
|          |          | 80 - 89   | 33 - 36  |                    | 9        |
|          |          | 90 - 99   | 37 - 40  |                    | 10       |
|          |          | 100 - 255 | 41 - 100 |                    | Reserved |
| <b>7</b> |          | 0 - 10    | 0 - 5    | <b>Stop / Loop</b> | Stop     |
|          |          | 11 - 127  | 6 - 50   |                    | Loop     |
|          |          | 128 - 255 | 51 - 100 |                    | Reserved |

**FX Parameter: Fireworks**

| Channel |  | Value     | Percent  | Function                  |                                   |
|---------|--|-----------|----------|---------------------------|-----------------------------------|
| 4       |  | 0 - 9     | 0 - 4    | <b>Color Combinations</b> | CCT<br>HUE<br>CCT+HUE<br>Reserved |
|         |  | 10 - 19   | 5 - 8    |                           |                                   |
|         |  | 20 - 29   | 9 - 12   |                           |                                   |
|         |  | 30 - 255  | 13 - 100 |                           |                                   |
| 5       |  | 0 - 9     | 0 - 4    | <b>Frequency</b>          | 1                                 |
|         |  | 10 - 19   | 5 - 8    |                           | 2                                 |
|         |  | 20 - 29   | 9 - 12   |                           | 3                                 |
|         |  | 30 - 39   | 13 - 16  |                           | 4                                 |
|         |  | 40 - 49   | 17 - 20  |                           | 5                                 |
|         |  | 50 - 59   | 21 - 24  |                           | 6                                 |
|         |  | 60 - 69   | 25 - 28  |                           | 7                                 |
|         |  | 70 - 79   | 29 - 32  |                           | 8                                 |
|         |  | 80 - 89   | 33 - 36  |                           | 9                                 |
|         |  | 90 - 99   | 37 - 40  |                           | 10                                |
|         |  | 100 - 109 | 41 - 44  |                           | Random                            |
|         |  | 110 - 255 | 45 - 100 |                           | Reserved                          |
| 6       |  | 0 - 10    | 0 - 5    | <b>Stop / Loop</b>        | Stop                              |
|         |  | 11 - 127  | 6 - 50   |                           | Loop                              |
|         |  | 128 - 255 | 51 - 100 |                           | Reserved                          |

**Mode 21: WWRGB 16-bit**

| Channel   |           | Value     | Percent | Function          |          |
|-----------|-----------|-----------|---------|-------------------|----------|
| <b>HI</b> | <b>LO</b> |           |         |                   |          |
| 1         | 2         | 0 - 65535 | 0 - 100 | <b>Warm White</b> | 0 - 100% |
| 3         | 4         | 0 - 65535 | 0 - 100 | <b>Cool White</b> | 0 - 100% |
| 5         | 6         | 0 - 65535 | 0 - 100 | <b>Red</b>        | 0 - 100% |
| 7         | 8         | 0 - 65535 | 0 - 100 | <b>Green</b>      | 0 - 100% |
| 9         | 10        | 0 - 65535 | 0 - 100 | <b>Blue</b>       | 0 - 100% |

**Mode 22: Ultimate Mode 16-bit**

| Channel   |  | Value     | Percent  | Function                       |           |
|-----------|--|-----------|----------|--------------------------------|-----------|
| HI        | LO   |           |          |                                |           |
| 1         | 2  | 0 - 65535 | 0 - 100  | <b>Intensity</b>               | 0 - 100%  |
| <b>3</b>  |  | 0 - 9     | 0 - 4    | <b>Lighting Mode Selection</b> | CCT & RGB |
|           |  | 10 - 19   | 5 - 8    |                                | CCT       |
|           |  | 20 - 29   | 9 - 12   |                                | CCT & HSI |
|           |  | 30 - 39   | 13 - 16  |                                | RGB       |
|           |  | 40 - 49   | 17 - 20  |                                | HSI       |
|           |  | 50 - 59   | 21 - 24  |                                | Gel       |
|           |  | 60 - 69   | 25 - 28  |                                | XY        |
|           |  | 70 - 79   | 29 - 32  |                                | Source    |
|           |  | 80 - 79   | 33 - 36  |                                | FX        |
|           |  | 90 - 255  | 37 - 100 |                                | Reserved  |
| <b>4</b>  | See Lighting Mode Parameter Tables<br>in Following Pages |           |          |                                |           |
| <b>5</b>  |  |           |          |                                |           |
| <b>6</b>  |  |           |          |                                |           |
| <b>7</b>  |  |           |          |                                |           |
| <b>8</b>  |  |           |          |                                |           |
| <b>9</b>  |  |           |          |                                |           |
| <b>10</b> |  |           |          |                                |           |
| <b>11</b> |  |           |          |                                |           |
| <b>12</b> |  |           |          |                                |           |
| <b>13</b> |  |           |          |                                |           |
| <b>14</b> |  |           |          |                                |           |
| <b>15</b> |  |           |          |                                |           |
| <b>16</b> |  |           |          |                                |           |

**Lighting Mode Parameter: CCT & RGB**

| Channel       |          | Value              | Percent          | Function         |   |
|---------------|----------|--------------------|------------------|------------------|---|
| HI            | LO       |                    |                  |                  |   |
| 4             | 5        | 0 - 65535          | 0 - 100          | <b>CCT</b>       | 2300 K - 10000 K  |
| 6             | 7        | 0 - 4587           | 0 - 7            | <b>G / M</b>     | Neutral / No Effect<br>Full Minus Green<br>- 99% - - 1%<br>Neutral / No Effect<br>1% - 99%<br>Full Plus Green |
|               |          | 4588 - 9830        | 8 - 15           |                  |   |
|               |          | 9831 - 30145       | 16 - 46          |                  |   |
|               |          | 30146 - 39976      | 47 - 61          |                  |   |
|               |          | 39977 - 60292      | 62 - 92          |                  |   |
| 60293 - 65535 | 93 - 100 |                    |                  |                  |   |
| 8             | 9        | 0 - 65535          | 0 - 100          | <b>CCT ↔ RGB</b> | Crossfade to Color  |
| 10            | 11       | 0 - 65535          | 0 - 100          | <b>Red</b>       | 0 - 100%  |
| 12            | 13       | 0 - 65535          | 0 - 100          | <b>Green</b>     | 0 - 100%  |
| 14            | 15       | 0 - 65535          | 0 - 100          | <b>Blue</b>      | 0 - 100%  |
| 16            |          | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | <b>Strobe</b>    | No Effect<br>1 Hz - 25 Hz   |

**Lighting Mode Parameter: CCT**

| Channel       |          | Value              | Percent          | Function      |   |
|---------------|----------|--------------------|------------------|---------------|---|
| HI            | LO       |                    |                  |               |   |
| 4             | 5        | 0 - 65535          | 0 - 100          | <b>CCT</b>    | 2300 K - 10000 K  |
| 6             | 7        | 0 - 4587           | 0 - 7            | <b>G / M</b>  | Neutral / No Effect<br>Full Minus Green<br>- 99% - - 1%<br>Neutral / No Effect<br>1% - 99%<br>Full Plus Green |
|               |          | 4588 - 9830        | 8 - 15           |               |   |
|               |          | 9831 - 30145       | 16 - 46          |               |   |
|               |          | 30146 - 39976      | 47 - 61          |               |   |
|               |          | 39977 - 60292      | 62 - 92          |               |   |
| 60293 - 65535 | 93 - 100 |                    |                  |               |   |
| 8             |          | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | <b>Strobe</b> | No Effect<br>1 Hz - 25 Hz   |



**Lighting Mode Parameter: CCT & HSI**

| Channel   |           | Value  | Percent  | Function            |   |
|-----------|-----------|--|--|---------------------|---|
| <b>HI</b> | <b>LO</b> |  |  |                     |   |
| <b>4</b>  | <b>5</b>  | 0 - 65535  | 0 - 100  | <b>CCT</b>          | 2300 K - 10000 K  |
| <b>6</b>  | <b>7</b>  | 0 - 4587<br>4588 - 9830<br>9831 - 30145<br>30146 - 39976<br>39977 - 60292<br>60293 - 65535 | 0 - 7<br>8 - 15<br>16 - 46<br>47 - 61<br>62 - 92<br>93 - 100 | <b>G / M</b>        | Neutral / No Effect<br>Full Minus Green<br>- 99% - - 1%<br>Neutral / No Effect<br>1% - 99%<br>Full Plus Green |
| <b>8</b>  | <b>9</b>  | 0 - 65535  | 0 - 100  | <b>CCT ↔ HSI</b>    | Crossfade to Color  |
| <b>10</b> | <b>11</b> | 0 - 65535  | 0 - 100  | <b>Hue</b>          | 1 - 360°  |
| <b>12</b> | <b>13</b> | 0 - 65535  | 0 - 100  | <b>Saturation</b>   | 0 - 100%  |
| <b>14</b> | <b>15</b> | 0 - 65535  | 0 - 100  | <b>HSI Base CCT</b> | 2300 K - 10000 K  |
| <b>16</b> |           | 0 - 19<br>20 - 255   | 0 - 7<br>8 - 100   | <b>Strobe</b>       | No Effect<br>1 Hz - 25 Hz   |

**Lighting Mode Parameter: RGB**

| Channel   |           | Value              | Percent          | Function      |                           |
|-----------|-----------|--------------------|------------------|---------------|---------------------------|
| <b>HI</b> | <b>LO</b> |                    |                  |               |                           |
| <b>4</b>  | <b>5</b>  | 0 - 65535          | 0 - 100          | <b>Red</b>    | 0 - 100%                  |
| <b>6</b>  | <b>7</b>  | 0 - 65535          | 0 - 100          | <b>Green</b>  | 0 - 100%                  |
| <b>8</b>  | <b>9</b>  | 0 - 65535          | 0 - 100          | <b>Blue</b>   | 0 - 100%                  |
| <b>10</b> |           | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | <b>Strobe</b> | No Effect<br>1 Hz - 25 Hz |

### Lighting Mode Parameter: HSI

| Channel |    | Value              | Percent          | Function     |                           |
|---------|----|--------------------|------------------|--------------|---------------------------|
| HI      | LO |                    |                  |              |                           |
| 4       | 5  | 0 - 65535          | 0 - 100          | Hue          | 1 - 360°                  |
| 6       | 7  | 0 - 65535          | 0 - 100          | Saturation   | 0 - 100%                  |
| 8       | 9  | 0 - 65535          | 0 - 100          | HSI Base CCT | 2300 K - 10000 K          |
| 10      |    | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | Strobe       | No Effect<br>1 Hz - 25 Hz |

### Lighting Mode Parameter: GEL

| Channel |  | Value   | Percent  | Function    |  |
|---------|--|---|--|-------------|--|
| 3       |  | 0 - 126<br>127 - 255  | 0 - 50<br>51 - 100   | CCT         | 3200K<br>5600K   |
| 4       |  | 0 - 29<br>30 - 59<br>60 - 255                                 | 0 - 12<br>13 - 24<br>25 - 100                              | Rosco / Lee | Rosco<br>Lee<br>Reserved   |
| 5       |  | 0 - 9<br>10 - 19<br>20 - 29<br>30 - 39<br>40 - 49<br>50 - 255 | 0 - 4<br>5 - 8<br>9 - 12<br>13 - 16<br>17 - 20<br>21 - 100 | Series      | R - Col.corr. / L - Col.corr.<br>R - CalColor / L - Col.Filters<br>R - Storaro / L - 600 Series<br>R - Cinelux / L - Cosmetic<br>R - Reserved / L - 700 Series<br>Reserved |
| 6       |  | 0 - 255   | 0 - 100  | Category    | <a href="#">See GEL Category Tables Mode 6: Gel</a>  |
| 7       |  | 0 - 19<br>20 - 255  | 0 - 7<br>8 - 100   | Strobe      | No Effect<br>1 Hz - 25 Hz  |

### Lighting Mode Parameter: XY

| Channel |    | Value              | Percent          | Function     |                           |
|---------|----|--------------------|------------------|--------------|---------------------------|
| HI      | LO |                    |                  |              |                           |
| 4       | 5  | 0 - 65535          | 0 - 100          | X Coordinate | 0 - 0.8                   |
| 6       | 7  | 0 - 65535          | 0 - 100          | Y Coordinate | 0 - 0.8                   |
| 8       |    | 0 - 19<br>20 - 255 | 0 - 7<br>8 - 100 | Strobe       | No Effect<br>1 Hz - 25 Hz |

### Lighting Mode Parameter: Source

| Channel |  | Value                | Percent            | Function        |   |
|---------|--|----------------------|--------------------|-----------------|---|
| 4       |  | 0 - 255              | 0 - 100            | Source Matching | <a href="#">See Tables in Mode 19: Source</a> |
| 5       |  | 0 - 127<br>128 - 255 | 0 - 49<br>50 - 100 | X Coordinate    | 0.0000 - +0.0050<br>0.0000 - - 0.0050         |
| 6       |  | 0 - 127<br>128 - 255 | 0 - 49<br>50 - 100 | Y Coordinate    | 0.0000 - +0.0050<br>0.0000 - - 0.0050         |
| 7       |  | 0 - 19<br>20 - 255   | 0 - 7<br>8 - 100   | Strobe          | No Effect<br>1 Hz - 25 Hz                     |

**Lighting Mode Parameter: FX**

| Channel   | Value   | Percent  | Function            |              |
|-----------|---|----------|---------------------|--------------|
| <b>4</b>  | 0 - 9   | 0 - 4    | <b>FX Selection</b> | Club Lights  |
|           | 10 - 19   | 5 - 8    |                     | Paparazzi    |
|           | 20 - 29   | 9 - 12   |                     | Lightning    |
|           | 30 - 39   | 13 - 16  |                     | TV           |
|           | 40 - 49   | 17 - 20  |                     | Candle       |
|           | 50 - 59   | 21 - 24  |                     | Fire         |
|           | 60 - 69   | 25 - 28  |                     | Strobe       |
|           | 70 - 79   | 29 - 32  |                     | Explosion    |
|           | 80 - 89   | 33 - 36  |                     | Faulty Bulb  |
|           | 90 - 99   | 37 - 40  |                     | Pulsing      |
|           | 100 - 109   | 41 - 44  |                     | Welding      |
|           | 110 - 119   | 45 - 48  |                     | Cop Car      |
|           | 120 - 129   | 49 - 52  |                     | Color Chase  |
|           | 130 - 139   | 53 - 56  |                     | Party Lights |
|           | 140 - 149   | 57 - 60  |                     | Fireworks    |
| 150 - 255 | 61 - 100  | Reserved |                     |              |
| <b>5</b>  | <a href="#">See FX Parameter Tables in Mode 20: FX 16-bit</a> |          |                     |              |
| <b>6</b>  |   |          |                     |              |
| <b>7</b>  |   |          |                     |              |
| <b>8</b>  |   |          |                     |              |
| <b>9</b>  |   |          |                     |              |
| <b>10</b> |   |          |                     |              |
| <b>11</b> |   |          |                     |              |
| <b>12</b> |   |          |                     |              |
| <b>13</b> |   |          |                     |              |