

# NANLITE

## FC-500C

### DMX CHARTS

Version: V1.1  
2024-07-09

## Revision History

| Version | Date (Y-M-D) | Note              |
|---------|--------------|-------------------|
| V1.0    | 2024-07-09   | First Release     |
| V1.1    | 2024-07-09   | Minor adjustments |

## Contents

|                                                            |    |
|------------------------------------------------------------|----|
| CCT & RGBW 8bit .....                                      | 1  |
| CCT & RGBW 16bit .....                                     | 2  |
| CCT & HSI 8bit .....                                       | 3  |
| CCT & HSI 16bit .....                                      | 4  |
| CCT 8bit .....                                             | 5  |
| CCT 16bit .....                                            | 6  |
| HSI 8bit .....                                             | 7  |
| HSI 16bit .....                                            | 8  |
| RGBW 8bit .....                                            | 9  |
| RGBW 16bit .....                                           | 10 |
| RGB(No Dimmer) 8bit .....                                  | 11 |
| RGB(No Dimmer) 16bit .....                                 | 12 |
| Gel 8bit .....                                             | 13 |
| Gel 16bit .....                                            | 14 |
| Gel Chart .....                                            | 15 |
| Ultimate DMX 8bit - CCT Mode .....                         | 18 |
| Ultimate DMX 8bit - HSI Mode .....                         | 19 |
| Ultimate DMX 8bit - RGBW Mode .....                        | 20 |
| Ultimate DMX 8bit - Gel Mode .....                         | 21 |
| Ultimate DMX 8bit - Effect Mode .....                      | 22 |
| DMX Effect Charts .....                                    | 24 |
| HUE Loop ( $0 \leq \text{CH3 Value} \leq 12$ ) .....       | 24 |
| CCT Loop ( $13 \leq \text{CH3 Value} \leq 25$ ) .....      | 25 |
| Int Loop ( $26 \leq \text{CH3 Value} \leq 38$ ) .....      | 26 |
| Flash ( $39 \leq \text{CH3 Value} \leq 51$ ) .....         | 27 |
| Pulse ( $52 \leq \text{CH3 Value} \leq 64$ ) .....         | 28 |
| Storm ( $65 \leq \text{CH3 Value} \leq 77$ ) .....         | 29 |
| Police Car ( $78 \leq \text{CH3 Value} \leq 90$ ) .....    | 30 |
| TV ( $91 \leq \text{CH3 Value} \leq 103$ ) .....           | 31 |
| Paparazzi ( $104 \leq \text{CH3 Value} \leq 116$ ) .....   | 32 |
| Candle/Fire ( $117 \leq \text{CH3 Value} \leq 129$ ) ..... | 33 |
| Disco ( $130 \leq \text{CH3 Value} \leq 142$ ) .....       | 34 |
| Bad Bulb ( $143 \leq \text{CH3 Value} \leq 155$ ) .....    | 36 |
| Firework ( $156 \leq \text{CH3 Value} \leq 168$ ) .....    | 37 |
| Explosion ( $169 \leq \text{CH3 Value} \leq 181$ ) .....   | 39 |
| Welding ( $182 \leq \text{CH3 Value} \leq 194$ ) .....     | 40 |

## CCT & RGBW 8bit

| Channel                                                                             | Attribute | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes                   |
|-------------------------------------------------------------------------------------|-----------|-----------------------------------|-------------|-----------|-------------|--------------|-------------------------|
| 1                                                                                   | Dimmer    | 0.0% → 100.0%                     | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| 2                                                                                   | CCT       | 2700K → 7500K                     | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| 3                                                                                   | G/M       | Neutral                           | 0% → 3%     | 0 → 9     | 0           | Fade & Step  | G/M=Duv*10 <sup>4</sup> |
|                                                                                     |           | -150                              | 4% → 7%     | 10 → 20   |             |              |                         |
|                                                                                     |           | -149 → -1                         | 8% → 46%    | 21 → 119  |             |              |                         |
|                                                                                     |           | Neutral                           | 47% → 56%   | 120 → 145 |             |              |                         |
|                                                                                     |           | 1 → 149                           | 57% → 95%   | 146 → 244 |             |              |                         |
|                                                                                     |           | 150                               | 96% → 100%  | 245 → 255 |             |              |                         |
| 4                                                                                   | Crossfade | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         | CCT → RGBW              |
| 5                                                                                   | Red       | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| 6                                                                                   | Green     | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| 7                                                                                   | Blue      | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| 8                                                                                   | White     | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |           |                                   |             |           |             |              |                         |
| 9                                                                                   | Fan       | Smart                             | 0% → 24%    | 0 → 63    | 0           | Step         |                         |
|                                                                                     |           | Full Speed                        | 25% → 49%   | 64 → 127  |             |              |                         |
|                                                                                     |           | Low Speed                         | 50% → 74%   | 128 → 191 |             |              |                         |
|                                                                                     |           | Off                               | 75% → 100%  | 192 → 255 |             |              |                         |
| 10                                                                                  | Strobe    | Off                               | 0% → 1.2%   | 0 → 3     | 0           | Fade & Step  |                         |
|                                                                                     |           | Random Fast                       | 1.6%        | 4         |             |              | 1-10Hz                  |
|                                                                                     |           | Random Medium                     | 2.0%        | 5         |             |              | 0.5-1Hz                 |
|                                                                                     |           | Random Slow                       | 2.4%        | 6         |             |              | 0.333-0.5Hz             |
|                                                                                     |           | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255   |             |              |                         |
| 11/12                                                                               | Reserved  | /                                 | /           | /         | /           | /            |                         |

## CCT & RGBW 16bit

| Channel                                                                             | Attribute | Function                          | % Value     | DMX Value     | DMX Default | Control Type | Notes                   |
|-------------------------------------------------------------------------------------|-----------|-----------------------------------|-------------|---------------|-------------|--------------|-------------------------|
| 1/2                                                                                 | Dimmer    | 0.0% → 100.0%                     | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| 3/4                                                                                 | CCT       | 2700K → 7500K                     | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| 5/6                                                                                 | G/M       | Neutral                           | 0% → 7%     | 0 → 5000      | 0           | Fade & Step  | G/M=Duv*10 <sup>4</sup> |
|                                                                                     |           | -150                              | 8% → 14%    | 5001 → 10000  |             |              |                         |
|                                                                                     |           | -149 → -1                         | 15% → 45%   | 10001 → 30000 |             |              |                         |
|                                                                                     |           | Neutral                           | 46% → 60%   | 30001 → 40000 |             |              |                         |
|                                                                                     |           | 1 → 149                           | 61% → 91%   | 40001 → 60000 |             |              |                         |
|                                                                                     |           | 150                               | 92% → 100%  | 60001 → 65535 |             |              |                         |
| 7                                                                                   | Crossfade | 0 → 255                           | 0% → 100%   | 0 → 255       | 0           | Fade         | CCT → RGBW              |
| 8/9                                                                                 | Red       | 0 → 65535                         | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| 10/11                                                                               | Green     | 0 → 65535                         | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| 12/13                                                                               | Blue      | 0 → 65535                         | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| 14/15                                                                               | White     | 0 → 65535                         | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |           |                                   |             |               |             |              |                         |
| 16                                                                                  | Fan       | Smart                             | 0% → 24%    | 0 → 63        | 0           | Step         |                         |
|                                                                                     |           | Full Speed                        | 25% → 49%   | 64 → 127      |             |              |                         |
|                                                                                     |           | Low Speed                         | 50% → 74%   | 128 → 191     |             |              |                         |
|                                                                                     |           | Off                               | 75% → 100%  | 192 → 255     |             |              |                         |
| 17                                                                                  | Strobe    | Off                               | 0% → 1.2%   | 0 → 3         | 0           | Fade & Step  |                         |
|                                                                                     |           | Random Fast                       | 1.6%        | 4             |             |              | 1-10Hz                  |
|                                                                                     |           | Random Medium                     | 2.0%        | 5             |             |              | 0.5-1Hz                 |
|                                                                                     |           | Random Slow                       | 2.4%        | 6             |             |              | 0.333-0.5Hz             |
|                                                                                     |           | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255       |             |              |                         |
| 18-21                                                                               | Reserved  | /                                 | /           | /             | /           | /            |                         |

## CCT & HSI 8bit

| Channel                                                                             | Attribute  | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes                   |
|-------------------------------------------------------------------------------------|------------|-----------------------------------|-------------|-----------|-------------|--------------|-------------------------|
| 1                                                                                   | Dimmer     | 0.0% → 100.0%                     | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| 2                                                                                   | CCT        | 2700K → 7500K                     | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| 3                                                                                   | G/M        | Neutral                           | 0% → 3%     | 0 → 9     | 0           | Fade & Step  | G/M=Duv*10 <sup>4</sup> |
|                                                                                     |            | -150                              | 4% → 7%     | 10 → 20   |             |              |                         |
|                                                                                     |            | -149 → -1                         | 8% → 46%    | 21 → 119  |             |              |                         |
|                                                                                     |            | Neutral                           | 47% → 56%   | 120 → 145 |             |              |                         |
|                                                                                     |            | 1 → 149                           | 57% → 95%   | 146 → 244 |             |              |                         |
|                                                                                     |            | 150                               | 96% → 100%  | 245 → 255 |             |              |                         |
| 4                                                                                   | Crossfade  | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         | CCT → HSI               |
| 5                                                                                   | Hue        | 0 → 360                           | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| 6                                                                                   | Saturation | 0 → 100                           | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |            |                                   |             |           |             |              |                         |
| 7                                                                                   | Fan        | Smart                             | 0% → 24%    | 0 → 63    | 0           | Step         |                         |
|                                                                                     |            | Full Speed                        | 25% → 49%   | 64 → 127  |             |              |                         |
|                                                                                     |            | Low Speed                         | 50% → 74%   | 128 → 191 |             |              |                         |
|                                                                                     |            | Off                               | 75% → 100%  | 192 → 255 |             |              |                         |
| 8                                                                                   | Strobe     | Off                               | 0% → 1.2%   | 0 → 3     | 0           | Fade & Step  |                         |
|                                                                                     |            | Random Fast                       | 1.6%        | 4         |             |              | 1-10Hz                  |
|                                                                                     |            | Random Medium                     | 2.0%        | 5         |             |              | 0.5-1Hz                 |
|                                                                                     |            | Random Slow                       | 2.4%        | 6         |             |              | 0.333-0.5Hz             |
|                                                                                     |            | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255   |             |              |                         |
| 9/10                                                                                | Reserved   | /                                 | /           | /         | /           | /            |                         |

## CCT & HSI 16bit

| Channel                                                                             | Attribute  | Function                          | % Value     | DMX Value     | DMX Default | Control Type | Notes                   |
|-------------------------------------------------------------------------------------|------------|-----------------------------------|-------------|---------------|-------------|--------------|-------------------------|
| 1/2                                                                                 | Dimmer     | 0.0% → 100.0%                     | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| 3/4                                                                                 | CCT        | 2700K → 7500K                     | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| 5/6                                                                                 | G/M        | Neutral                           | 0% → 7%     | 0 → 5000      | 0           | Fade & Step  | G/M=Duv*10 <sup>4</sup> |
|                                                                                     |            | -150                              | 8% → 14%    | 5001 → 10000  |             |              |                         |
|                                                                                     |            | -149 → -1                         | 15% → 45%   | 10001 → 30000 |             |              |                         |
|                                                                                     |            | Neutral                           | 46% → 60%   | 30001 → 40000 |             |              |                         |
|                                                                                     |            | 1 → 149                           | 61% → 91%   | 40001 → 60000 |             |              |                         |
|                                                                                     |            | 150                               | 92% → 100%  | 60001 → 65535 |             |              |                         |
| 7                                                                                   | Crossfade  | 0 → 255                           | 0% → 100%   | 0 → 255       | 0           | Fade         | CCT → HSI               |
| 8/9                                                                                 | Hue        | 0 → 360                           | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| 10/11                                                                               | Saturation | 0 → 100                           | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |            |                                   |             |               |             |              |                         |
| 12                                                                                  | Fan        | Smart                             | 0% → 24%    | 0 → 63        | 0           | Step         |                         |
|                                                                                     |            | Full Speed                        | 25% → 49%   | 64 → 127      |             |              |                         |
|                                                                                     |            | Low Speed                         | 50% → 74%   | 128 → 191     |             |              |                         |
|                                                                                     |            | Off                               | 75% → 100%  | 192 → 255     |             |              |                         |
| 13                                                                                  | Strobe     | Off                               | 0% → 1.2%   | 0 → 3         | 0           | Fade & Step  |                         |
|                                                                                     |            | Random Fast                       | 1.6%        | 4             |             |              | 1-10Hz                  |
|                                                                                     |            | Random Medium                     | 2.0%        | 5             |             |              | 0.5-1Hz                 |
|                                                                                     |            | Random Slow                       | 2.4%        | 6             |             |              | 0.333-0.5Hz             |
|                                                                                     |            | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255       |             |              |                         |
| 14-17                                                                               | Reserved   | /                                 | /           | /             | /           | /            |                         |

## CCT 8bit

| Channel                                                                             | Attribute | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes                   |
|-------------------------------------------------------------------------------------|-----------|-----------------------------------|-------------|-----------|-------------|--------------|-------------------------|
| 1                                                                                   | Dimmer    | 0.0% → 100.0%                     | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| 2                                                                                   | CCT       | 2700K → 7500K                     | 0% → 100%   | 0 → 255   | 0           | Fade         |                         |
| 3                                                                                   | G/M       | Neutral                           | 0% → 3%     | 0 → 9     | 0           | Fade & Step  | G/M=Duv*10 <sup>4</sup> |
|                                                                                     |           | -150                              | 4% → 7%     | 10 → 20   |             |              |                         |
|                                                                                     |           | -149 → -1                         | 8% → 46%    | 21 → 119  |             |              |                         |
|                                                                                     |           | Neutral                           | 47% → 56%   | 120 → 145 |             |              |                         |
|                                                                                     |           | 1 → 149                           | 57% → 95%   | 146 → 244 |             |              |                         |
|                                                                                     |           | 150                               | 96% → 100%  | 245 → 255 |             |              |                         |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |           |                                   |             |           |             |              |                         |
| 4                                                                                   | Fan       | Smart                             | 0% → 24%    | 0 → 63    | 0           | Step         |                         |
|                                                                                     |           | Full Speed                        | 25% → 49%   | 64 → 127  |             |              |                         |
|                                                                                     |           | Low Speed                         | 50% → 74%   | 128 → 191 |             |              |                         |
|                                                                                     |           | Off                               | 75% → 100%  | 192 → 255 |             |              |                         |
| 5                                                                                   | Strobe    | Off                               | 0% → 1.2%   | 0 → 3     | 0           | Fade & Step  |                         |
|                                                                                     |           | Random Fast                       | 1.6%        | 4         |             |              | 1-10Hz                  |
|                                                                                     |           | Random Medium                     | 2.0%        | 5         |             |              | 0.5-1Hz                 |
|                                                                                     |           | Random Slow                       | 2.4%        | 6         |             |              | 0.333-0.5Hz             |
|                                                                                     |           | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255   |             |              |                         |
| 6/7                                                                                 | Reserved  | /                                 | /           | /         | /           | /            |                         |

## CCT 16bit

| Channel                                                                             | Attribute | Function                          | % Value     | DMX Value     | DMX Default | Control Type | Notes                   |
|-------------------------------------------------------------------------------------|-----------|-----------------------------------|-------------|---------------|-------------|--------------|-------------------------|
| 1/2                                                                                 | Dimmer    | 0.0% → 100.0%                     | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| 3/4                                                                                 | CCT       | 2700K → 7500K                     | 0% → 100%   | 0 → 65535     | 0           | Fade         |                         |
| 5/6                                                                                 | G/M       | Neutral                           | 0% → 7%     | 0 → 5000      | 0           | Fade & Step  | G/M=Duv*10 <sup>4</sup> |
|                                                                                     |           | -150                              | 8% → 14%    | 5001 → 10000  |             |              |                         |
|                                                                                     |           | -149 → -1                         | 15% → 45%   | 10001 → 30000 |             |              |                         |
|                                                                                     |           | Neutral                           | 46% → 60%   | 30001 → 40000 |             |              |                         |
|                                                                                     |           | 1 → 149                           | 61% → 91%   | 40001 → 60000 |             |              |                         |
|                                                                                     |           | 150                               | 92% → 100%  | 60001 → 65535 |             |              |                         |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |           |                                   |             |               |             |              |                         |
| 7                                                                                   | Fan       | Smart                             | 0% → 24%    | 0 → 63        | 0           | Step         |                         |
|                                                                                     |           | Full Speed                        | 25% → 49%   | 64 → 127      |             |              |                         |
|                                                                                     |           | Low Speed                         | 50% → 74%   | 128 → 191     |             |              |                         |
|                                                                                     |           | Off                               | 75% → 100%  | 192 → 255     |             |              |                         |
| 8                                                                                   | Strobe    | Off                               | 0% → 1.2%   | 0 → 3         | 0           | Fade & Step  |                         |
|                                                                                     |           | Random Fast                       | 1.6%        | 4             |             |              | 1-10Hz                  |
|                                                                                     |           | Random Medium                     | 2.0%        | 5             |             |              | 0.5-1Hz                 |
|                                                                                     |           | Random Slow                       | 2.4%        | 6             |             |              | 0.333-0.5Hz             |
|                                                                                     |           | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255       |             |              |                         |
| 9-12                                                                                | Reserved  | /                                 | /           | /             | /           | /            |                         |

## HSI 8bit

| Channel                                                                             | Attribute  | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes       |
|-------------------------------------------------------------------------------------|------------|-----------------------------------|-------------|-----------|-------------|--------------|-------------|
| 1                                                                                   | Dimmer     | 0.0% → 100.0%                     | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| 2                                                                                   | Hue        | 0 → 360                           | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| 3                                                                                   | Saturation | 0 → 100                           | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |            |                                   |             |           |             |              |             |
| 4                                                                                   | Fan        | Smart                             | 0% → 24%    | 0 → 63    | 0           | Step         |             |
|                                                                                     |            | Full Speed                        | 25% → 49%   | 64 → 127  |             |              |             |
|                                                                                     |            | Low Speed                         | 50% → 74%   | 128 → 191 |             |              |             |
|                                                                                     |            | Off                               | 75% → 100%  | 192 → 255 |             |              |             |
| 5                                                                                   | Strobe     | Off                               | 0% → 1.2%   | 0 → 3     | 0           | Fade & Step  |             |
|                                                                                     |            | Random Fast                       | 1.6%        | 4         |             |              | 1-10Hz      |
|                                                                                     |            | Random Medium                     | 2.0%        | 5         |             |              | 0.5-1Hz     |
|                                                                                     |            | Random Slow                       | 2.4%        | 6         |             |              | 0.333-0.5Hz |
|                                                                                     |            | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255   |             |              |             |
| 6/7                                                                                 | Reserved   | /                                 | /           | /         | /           | /            |             |

## HSI 16bit

| Channel                                                                             | Attribute  | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes       |
|-------------------------------------------------------------------------------------|------------|-----------------------------------|-------------|-----------|-------------|--------------|-------------|
| 1/2                                                                                 | Dimmer     | 0.0% → 100.0%                     | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| 3/4                                                                                 | Hue        | 0 → 360                           | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| 5/6                                                                                 | Saturation | 0 → 100                           | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |            |                                   |             |           |             |              |             |
| 7                                                                                   | Fan        | Smart                             | 0% → 24%    | 0 → 63    | 0           | Step         |             |
|                                                                                     |            | Full Speed                        | 25% → 49%   | 64 → 127  |             |              |             |
|                                                                                     |            | Low Speed                         | 50% → 74%   | 128 → 191 |             |              |             |
|                                                                                     |            | Off                               | 75% → 100%  | 192 → 255 |             |              |             |
| 8                                                                                   | Strobe     | Off                               | 0% → 1.2%   | 0 → 3     | 0           | Fade & Step  |             |
|                                                                                     |            | Random Fast                       | 1.6%        | 4         |             |              | 1-10Hz      |
|                                                                                     |            | Random Medium                     | 2.0%        | 5         |             |              | 0.5-1Hz     |
|                                                                                     |            | Random Slow                       | 2.4%        | 6         |             |              | 0.333-0.5Hz |
|                                                                                     |            | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255   |             |              |             |
| 9-12                                                                                | Reserved   | /                                 | /           | /         | /           | /            |             |

## RGBW 8bit

| Channel                                                                             | Attribute | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes       |
|-------------------------------------------------------------------------------------|-----------|-----------------------------------|-------------|-----------|-------------|--------------|-------------|
| 1                                                                                   | Dimmer    | 0.0% → 100.0%                     | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| 2                                                                                   | Red       | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| 3                                                                                   | Green     | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| 4                                                                                   | Blue      | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| 5                                                                                   | White     | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |           |                                   |             |           |             |              |             |
| 6                                                                                   | Fan       | Smart                             | 0% → 24%    | 0 → 63    | 0           | Step         |             |
|                                                                                     |           | Full Speed                        | 25% → 49%   | 64 → 127  |             |              |             |
|                                                                                     |           | Low Speed                         | 50% → 74%   | 128 → 191 |             |              |             |
|                                                                                     |           | Off                               | 75% → 100%  | 192 → 255 |             |              |             |
| 7                                                                                   | Strobe    | Off                               | 0% → 1.2%   | 0 → 3     | 0           | Fade & Step  |             |
|                                                                                     |           | Random Fast                       | 1.6%        | 4         |             |              | 1-10Hz      |
|                                                                                     |           | Random Medium                     | 2.0%        | 5         |             |              | 0.5-1Hz     |
|                                                                                     |           | Random Slow                       | 2.4%        | 6         |             |              | 0.333-0.5Hz |
|                                                                                     |           | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255   |             |              |             |
| 8/9                                                                                 | Reserved  | /                                 | /           | /         | /           | /            |             |

## RGBW 16bit

| Channel                                                                             | Attribute | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes       |
|-------------------------------------------------------------------------------------|-----------|-----------------------------------|-------------|-----------|-------------|--------------|-------------|
| 1/2                                                                                 | Dimmer    | 0.0% → 100.0%                     | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| 3/4                                                                                 | Red       | 0 → 65535                         | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| 5/6                                                                                 | Green     | 0 → 65535                         | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| 7/8                                                                                 | Blue      | 0 → 65535                         | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| 9/10                                                                                | White     | 0 → 65535                         | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |           |                                   |             |           |             |              |             |
| 11                                                                                  | Fan       | Smart                             | 0% → 24%    | 0 → 63    | 0           | Step         |             |
|                                                                                     |           | Full Speed                        | 25% → 49%   | 64 → 127  |             |              |             |
|                                                                                     |           | Low Speed                         | 50% → 74%   | 128 → 191 |             |              |             |
|                                                                                     |           | Off                               | 75% → 100%  | 192 → 255 |             |              |             |
| 12                                                                                  | Strobe    | Off                               | 0% → 1.2%   | 0 → 3     | 0           | Fade & Step  |             |
|                                                                                     |           | Random Fast                       | 1.6%        | 4         |             |              | 1-10Hz      |
|                                                                                     |           | Random Medium                     | 2.0%        | 5         |             |              | 0.5-1Hz     |
|                                                                                     |           | Random Slow                       | 2.4%        | 6         |             |              | 0.333-0.5Hz |
|                                                                                     |           | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255   |             |              |             |
| 13-16                                                                               | Reserved  | /                                 | /           | /         | /           | /            |             |

## RGB(No Dimmer) 8bit

| Channel                                                                             | Attribute | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes       |
|-------------------------------------------------------------------------------------|-----------|-----------------------------------|-------------|-----------|-------------|--------------|-------------|
| 1                                                                                   | Red       | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| 2                                                                                   | Green     | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| 3                                                                                   | Blue      | 0 → 255                           | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |           |                                   |             |           |             |              |             |
| 4                                                                                   | Fan       | Smart                             | 0% → 24%    | 0 → 63    | 0           | Step         |             |
|                                                                                     |           | Full Speed                        | 25% → 49%   | 64 → 127  |             |              |             |
|                                                                                     |           | Low Speed                         | 50% → 74%   | 128 → 191 |             |              |             |
|                                                                                     |           | Off                               | 75% → 100%  | 192 → 255 |             |              |             |
| 5                                                                                   | Strobe    | Off                               | 0% → 1.2%   | 0 → 3     | 0           | Fade & Step  |             |
|                                                                                     |           | Random Fast                       | 1.6%        | 4         |             |              | 1-10Hz      |
|                                                                                     |           | Random Medium                     | 2.0%        | 5         |             |              | 0.5-1Hz     |
|                                                                                     |           | Random Slow                       | 2.4%        | 6         |             |              | 0.333-0.5Hz |
|                                                                                     |           | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255   |             |              |             |
| 6/7                                                                                 | Reserved  | /                                 | /           | /         | /           | /            |             |

## RGB(No Dimmer) 16bit

| Channel                                                                             | Attribute | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes       |
|-------------------------------------------------------------------------------------|-----------|-----------------------------------|-------------|-----------|-------------|--------------|-------------|
| 1/2                                                                                 | Red       | 0 → 65535                         | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| 3/4                                                                                 | Green     | 0 → 65535                         | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| 5/6                                                                                 | Blue      | 0 → 65535                         | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |           |                                   |             |           |             |              |             |
| 7                                                                                   | Fan       | Smart                             | 0% → 24%    | 0 → 63    | 0           | Step         |             |
|                                                                                     |           | Full Speed                        | 25% → 49%   | 64 → 127  |             |              |             |
|                                                                                     |           | Low Speed                         | 50% → 74%   | 128 → 191 |             |              |             |
|                                                                                     |           | Off                               | 75% → 100%  | 192 → 255 |             |              |             |
| 8                                                                                   | Strobe    | Off                               | 0% → 1.2%   | 0 → 3     | 0           | Fade & Step  |             |
|                                                                                     |           | Random Fast                       | 1.6%        | 4         |             |              | 1-10Hz      |
|                                                                                     |           | Random Medium                     | 2.0%        | 5         |             |              | 0.5-1Hz     |
|                                                                                     |           | Random Slow                       | 2.4%        | 6         |             |              | 0.333-0.5Hz |
|                                                                                     |           | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255   |             |              |             |
| 9-12                                                                                | Reserved  | /                                 | /           | /         | /           | /            |             |

## Gel 8bit

| Channel                                                                             | Attribute | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes       |
|-------------------------------------------------------------------------------------|-----------|-----------------------------------|-------------|-----------|-------------|--------------|-------------|
| 1                                                                                   | Dimmer    | 0.0% → 100.0%                     | 0% → 100%   | 0 → 255   | 0           | Fade         |             |
| 2                                                                                   | Base CCT  | 3200K                             | 0% → 49%    | 0 → 127   | 0           | Step         |             |
|                                                                                     |           | 5600K                             | 50% → 100%  | 128 → 255 |             |              |             |
| 3                                                                                   | Brand     | Lee                               | 0% → 38%    | 0 → 99    | 0           | Step         |             |
|                                                                                     |           | Reserved                          | 39% → 100%  | 100 → 255 |             |              |             |
| 4                                                                                   | Gel       | See Gel Chart                     | 0% → 100%   | 0 → 255   | 0           | Step         |             |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |           |                                   |             |           |             |              |             |
| 5                                                                                   | Fan       | Smart                             | 0% → 24%    | 0 → 63    | 0           | Step         |             |
|                                                                                     |           | Full Speed                        | 25% → 49%   | 64 → 127  |             |              |             |
|                                                                                     |           | Low Speed                         | 50% → 74%   | 128 → 191 |             |              |             |
|                                                                                     |           | Off                               | 75% → 100%  | 192 → 255 |             |              |             |
| 6                                                                                   | Strobe    | Off                               | 0% → 1.2%   | 0 → 3     | 0           | Fade & Step  |             |
|                                                                                     |           | Random Fast                       | 1.6%        | 4         |             |              | 1-10Hz      |
|                                                                                     |           | Random Medium                     | 2.0%        | 5         |             |              | 0.5-1Hz     |
|                                                                                     |           | Random Slow                       | 2.4%        | 6         |             |              | 0.333-0.5Hz |
|                                                                                     |           | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255   |             |              |             |
| 7/8                                                                                 | Reserved  | /                                 | /           | /         | /           | /            |             |

## Gel 16bit

| Channel                                                                             | Attribute | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes       |
|-------------------------------------------------------------------------------------|-----------|-----------------------------------|-------------|-----------|-------------|--------------|-------------|
| 1/2                                                                                 | Dimmer    | 0.0% → 100.0%                     | 0% → 100%   | 0 → 65535 | 0           | Fade         |             |
| 3                                                                                   | Base CCT  | 3200K                             | 0% → 49%    | 0 → 127   | 0           | Step         |             |
|                                                                                     |           | 5600K                             | 50% → 100%  | 128 → 255 |             |              |             |
| 4                                                                                   | Brand     | Lee                               | 0% → 38%    | 0 → 99    | 0           | Step         |             |
|                                                                                     |           | Reserved                          | 39% → 100%  | 100 → 255 |             |              |             |
| 5                                                                                   | Gel       | See Gel Chart                     | 0% → 100%   | 0 → 255   | 0           | Step         |             |
| When "DMX Reduced Channels" is set to "ON", the following channels will be reduced. |           |                                   |             |           |             |              |             |
| 6                                                                                   | Fan       | Smart                             | 0% → 24%    | 0 → 63    | 0           | Step         |             |
|                                                                                     |           | Full Speed                        | 25% → 49%   | 64 → 127  |             |              |             |
|                                                                                     |           | Low Speed                         | 50% → 74%   | 128 → 191 |             |              |             |
|                                                                                     |           | Off                               | 75% → 100%  | 192 → 255 |             |              |             |
| 7                                                                                   | Strobe    | Off                               | 0% → 1.2%   | 0 → 3     | 0           | Fade & Step  |             |
|                                                                                     |           | Random Fast                       | 1.6%        | 4         |             |              | 1-10Hz      |
|                                                                                     |           | Random Medium                     | 2.0%        | 5         |             |              | 0.5-1Hz     |
|                                                                                     |           | Random Slow                       | 2.4%        | 6         |             |              | 0.333-0.5Hz |
|                                                                                     |           | Variable Strobe<br>(0.4Hz → 25Hz) | 2.7% → 100% | 7 → 255   |             |              |             |
| 8-11                                                                                | Reserved  | /                                 | /           | /         | /           | /            |             |

## Gel Chart

| DMX Value | Gel Number | Gel Name        |
|-----------|------------|-----------------|
| 0         | /          | Clear           |
| 1         | L200       | Double CTB      |
| 2         | L201       | Full CTB        |
| 3         | L281       | 3/4 CTB         |
| 4         | L202       | 1/2 CTB         |
| 5         | L203       | 1/4 CTB         |
| 6         | L218       | 1/8 CTB         |
| 7         | L287       | Double CTO      |
| 8         | L204       | Full CTO        |
| 9         | L285       | 3/4 CTO         |
| 10        | L205       | 1/2 CTO         |
| 11        | L206       | 1/4 CTO         |
| 12        | L223       | 1/8 CTO         |
| 13        | L441       | Full CTS        |
| 14        | L442       | 1/2 CTS         |
| 15        | L443       | 1/4 CTS         |
| 16        | L444       | 1/8 CTS         |
| 17        | L244       | Plus Green      |
| 18        | L245       | 1/2 Plus Green  |
| 19        | L246       | 1/4 Plus Green  |
| 20        | L278       | 1/8 Plus Green  |
| 21        | L247       | Minus Green     |
| 22        | L248       | 1/2 Minus Green |
| 23        | L249       | 1/4 Minus Green |
| 24        | L279       | 1/8 Minus Green |
| 25        | L147       | Apricot         |
| 26        | L151       | Gold Tint       |

| DMX Value | Gel Number | Gel Name       |
|-----------|------------|----------------|
| 27        | L004       | M.B.Amber      |
| 28        | L162       | Bastard Amber  |
| 29        | L152       | Pale Gold      |
| 30        | L153       | Pale Salmon    |
| 31        | L154       | Pale Rose      |
| 32        | L035       | Light Pink     |
| 33        | L036       | Medium Pink    |
| 34        | L107       | Light Rose     |
| 35        | L108       | English Rose   |
| 36        | L109       | Light Salmon   |
| 37        | L110       | Middle Rose    |
| 38        | L111       | Dark Pink      |
| 39        | L157       | Pink           |
| 40        | L176       | Loving Amber   |
| 41        | L192       | Flesh Pink     |
| 42        | L053       | Paler Lavender |
| 43        | L194       | Surprise Pink  |
| 44        | L003       | Lavender Tint  |
| 45        | L052       | Light Lavender |
| 46        | L345       | Fuchsia Pink   |
| 47        | L137       | S.Lavender     |
| 48        | L136       | Pale Lavender  |
| 49        | L170       | Deep Lavender  |
| 50        | L169       | Lilac Tint     |
| 51        | L048       | Rose Purple    |
| 52        | L049       | Medium Purple  |
| 53        | L126       | Mauve          |

| DMX Value | Gel Number | Gel Name           |
|-----------|------------|--------------------|
| 54        | L128       | Bright Pink        |
| 55        | L328       | Follies Pink       |
| 56        | L002       | Rose Pink          |
| 57        | L127       | Smokey Pink        |
| 58        | L024       | Scarlet            |
| 59        | L332       | Special Rose Pink  |
| 60        | L148       | Bright Rose        |
| 61        | L046       | Dark Magenta       |
| 62        | L113       | Magenta            |
| 63        | L026       | Bright Red         |
| 64        | L106       | Primary Red        |
| 65        | L029       | Plasa Red          |
| 66        | L027       | Medium Red         |
| 67        | L182       | Light Red          |
| 68        | L164       | Flame              |
| 69        | L019       | Fire               |
| 70        | L025       | Sunset Red         |
| 71        | L135       | Deep Golden Amber  |
| 72        | L021       | Gold Amber         |
| 73        | L158       | Deep Orange        |
| 74        | L134       | Golden Amber       |
| 75        | L017       | Surprise Peach     |
| 76        | L643       | 1/4 Mustard Yellow |
| 77        | L642       | 1/2 Mustard Yellow |
| 78        | L741       | Mustard Yellow     |
| 79        | L652       | Urban Sodium       |
| 80        | L653       | Lo Sodium          |
| 81        | L512       | Amber Delight      |
| 82        | L650       | Industry Sodium    |

| DMX Value | Gel Number | Gel Name        |
|-----------|------------|-----------------|
| 83        | L156       | Chocolate       |
| 84        | L008       | Dark Salmon     |
| 85        | L105       | Orange          |
| 86        | L022       | Dark Amber      |
| 87        | L179       | Chrome Orange   |
| 88        | L020       | Medium Amber    |
| 89        | L015       | Deep Straw      |
| 90        | L102       | Light Amber     |
| 91        | L007       | Pale Yellow     |
| 92        | L010       | Medium Yellow   |
| 93        | L100       | Spring Yellow   |
| 94        | L765       | Yellow          |
| 95        | L104       | Deep Amber      |
| 96        | L013       | Straw Tint      |
| 97        | L103       | Straw           |
| 98        | L009       | Pale Amber Gold |
| 99        | L159       | No Color Straw  |
| 100       | L161       | Slate Blue      |
| 101       | L143       | Pale Navy Blue  |
| 102       | L061       | Mist Blue       |
| 103       | L063       | Pale Blue       |
| 104       | L197       | Alice Blue      |
| 105       | L196       | True Blue       |
| 106       | L075       | Evening Blue    |
| 107       | L079       | Just Blue       |
| 108       | L119       | Dark Blue       |
| 109       | L085       | Deeper Blue     |
| 110       | L120       | Deep Blue       |
| 111       | L199       | Regal Blue      |

| DMX Value | Gel Number | Gel Name           |
|-----------|------------|--------------------|
| 112       | L195       | Zenith Blue        |
| 113       | L198       | Palace Blue        |
| 114       | L071       | Tokyo Blue         |
| 115       | L181       | Congo Blue         |
| 116       | L343       | S.M.Lavender       |
| 117       | L180       | Dark Lavender      |
| 118       | L058       | Lavender           |
| 119       | L142       | Pale Violet        |
| 120       | L165       | Daylight Blue      |
| 121       | L068       | Sky Blue           |
| 122       | L132       | Medium Blue        |
| 123       | L183       | Moonlight Blue     |
| 124       | L141       | Bright Blue        |
| 125       | L144       | No Color Blue      |
| 126       | L140       | Summer Blue        |
| 127       | L172       | Lagoon Blue        |
| 128       | L116       | Medium Blue-Green  |
| 129       | L115       | Peacock Blue       |
| 130       | L131       | Marine Blue        |
| 131       | L354       | Special Steel Blue |
| 132       | L117       | Steel Blue         |

| DMX Value | Gel Number | Gel Name            |
|-----------|------------|---------------------|
| 133       | L174       | Dark Steel Blue     |
| 134       | L366       | Cornflower          |
| 135       | L118       | Light Blue          |
| 136       | L352       | Glacier Blue        |
| 137       | L353       | Lighter Blue        |
| 138       | L363       | Special Medium Blue |
| 139       | L322       | Soft Green          |
| 140       | L323       | Jade                |
| 141       | L121       | Green               |
| 142       | L122       | Fern Green          |
| 143       | L124       | Dark Green          |
| 144       | L139       | Primary Green       |
| 145       | L327       | Forest Green        |
| 146       | L138       | Pale Green          |
| 147       | L219       | Fluorescent Green   |
| 148       | L090       | Dark Yellow Green   |
| 149       | L089       | Moss Green          |
| 150       | L088       | Lime Green          |
| 151       | L213       | White Flame Green   |
| 152-255   | Reserved   | Reserved            |

## Ultimate DMX 8bit - CCT Mode

| Channel | Attribute           | Function      | % Value    | DMX Value | DMX Default | Control Type | Notes                         |
|---------|---------------------|---------------|------------|-----------|-------------|--------------|-------------------------------|
| 1       | Dimmer              | 0.0% → 100.0% | 0% → 100%  | 0 → 255   | 0           | Fade         |                               |
| 2       | Mode                | CCT Mode      | 0% → 12%   | 0 → 31    | 0           | Step         | Select<br>DMX Value<br>0 → 31 |
|         |                     | HSI Mode      | 13% → 24%  | 32 → 63   |             |              |                               |
|         |                     | RGBW Mode     | 25% → 37%  | 64 → 95   |             |              |                               |
|         |                     | Gel Mode      | 38% → 49%  | 96 → 127  |             |              |                               |
|         |                     | Effect Mode   | 50% → 62%  | 128 → 159 |             |              |                               |
|         |                     | Reserved      | 63% → 100% | 160 → 255 |             |              |                               |
| 3       | Param. #1<br>CCT    | 2700K → 7500K | 0% → 100%  | 0 → 255   | 0           | Fade         |                               |
| 4       | Param. #2<br>G/M    | Neutral       | 0% → 3%    | 0 → 9     | 0           | Fade & Step  |                               |
|         |                     | -150          | 4% → 7%    | 10 → 20   |             |              |                               |
|         |                     | -149 → -1     | 8% → 46%   | 21 → 119  |             |              |                               |
|         |                     | Neutral       | 47% → 56%  | 120 → 145 |             |              |                               |
|         |                     | 1 → 149       | 57% → 95%  | 146 → 244 |             |              |                               |
|         |                     | 150           | 96% → 100% | 245 → 255 |             |              |                               |
| 5-14    | Param. #3-12<br>N/A | /             | /          | /         | /           | /            |                               |
| 15      | Fan                 | Smart         | 0% → 24%   | 0 → 63    | 0           | Step         |                               |
|         |                     | Full Speed    | 25% → 49%  | 64 → 127  |             |              |                               |
|         |                     | Low Speed     | 50% → 74%  | 128 → 191 |             |              |                               |
|         |                     | Off           | 75% → 100% | 192 → 255 |             |              |                               |

## Ultimate DMX 8bit - HSI Mode

| Channel | Attribute               | Function      | % Value    | DMX Value | DMX Default | Control Type | Notes                          |
|---------|-------------------------|---------------|------------|-----------|-------------|--------------|--------------------------------|
| 1       | Dimmer                  | 0.0% → 100.0% | 0% → 100%  | 0 → 255   | 0           | Fade         |                                |
| 2       | Mode                    | CCT Mode      | 0% → 12%   | 0 → 31    | 0           | Step         | Select<br>DMX Value<br>32 → 63 |
|         |                         | HSI Mode      | 13% → 24%  | 32 → 63   |             |              |                                |
|         |                         | RGBW Mode     | 25% → 37%  | 64 → 95   |             |              |                                |
|         |                         | Gel Mode      | 38% → 49%  | 96 → 127  |             |              |                                |
|         |                         | Effect Mode   | 50% → 62%  | 128 → 159 |             |              |                                |
|         |                         | Reserved      | 63% → 100% | 160 → 255 |             |              |                                |
| 3       | Param. #1<br>Hue        | 0 → 360       | 0% → 100%  | 0 → 255   | 0           | Fade         |                                |
| 4       | Param. #2<br>Saturation | 0 → 100       | 0% → 100%  | 0 → 255   | 0           | Fade         |                                |
| 5-14    | Param. #3-12<br>N/A     | /             | /          | /         | /           | /            |                                |
| 15      | Fan                     | Smart         | 0% → 24%   | 0 → 63    | 0           | Step         |                                |
|         |                         | Full Speed    | 25% → 49%  | 64 → 127  |             |              |                                |
|         |                         | Low Speed     | 50% → 74%  | 128 → 191 |             |              |                                |
|         |                         | Off           | 75% → 100% | 192 → 255 |             |              |                                |

## Ultimate DMX 8bit - RGBW Mode

| Channel | Attribute           | Function      | % Value    | DMX Value | DMX Default | Control Type | Notes                          |
|---------|---------------------|---------------|------------|-----------|-------------|--------------|--------------------------------|
| 1       | Dimmer              | 0.0% → 100.0% | 0% → 100%  | 0 → 255   | 0           | Fade         |                                |
| 2       | Mode                | CCT Mode      | 0% → 12%   | 0 → 31    | 0           | Step         | Select<br>DMX Value<br>64 → 95 |
|         |                     | HSI Mode      | 13% → 24%  | 32 → 63   |             |              |                                |
|         |                     | RGBW Mode     | 25% → 37%  | 64 → 95   |             |              |                                |
|         |                     | Gel Mode      | 38% → 49%  | 96 → 127  |             |              |                                |
|         |                     | Effect Mode   | 50% → 62%  | 128 → 159 |             |              |                                |
|         |                     | Reserved      | 63% → 100% | 160 → 255 |             |              |                                |
| 3       | Param. #1<br>Red    | 0 → 255       | 0% → 100%  | 0 → 255   | 0           | Fade         |                                |
| 4       | Param. #2<br>Green  | 0 → 255       | 0% → 100%  | 0 → 255   | 0           | Fade         |                                |
| 5       | Param. #3<br>Blue   | 0 → 255       | 0% → 100%  | 0 → 255   | 0           | Fade         |                                |
| 6       | Param. #4<br>White  | 0 → 255       | 0% → 100%  | 0 → 255   | 0           | Fade         |                                |
| 7-14    | Param. #5-12<br>N/A | /             | /          | /         | /           | /            |                                |
| 15      | Fan                 | Smart         | 0% → 24%   | 0 → 63    | 0           | Step         |                                |
|         |                     | Full Speed    | 25% → 49%  | 64 → 127  |             |              |                                |
|         |                     | Low Speed     | 50% → 74%  | 128 → 191 |             |              |                                |
|         |                     | Off           | 75% → 100% | 192 → 255 |             |              |                                |

## Ultimate DMX 8bit - Gel Mode

| Channel | Attribute             | Function      | % Value    | DMX Value | DMX Default | Control Type | Notes                           |
|---------|-----------------------|---------------|------------|-----------|-------------|--------------|---------------------------------|
| 1       | Dimmer                | 0% → 100.0%   | 0% → 100%  | 0 → 255   | 0           | Fade         |                                 |
| 2       | Mode                  | CCT Mode      | 0% → 12%   | 0 → 31    | 0           | Step         | Select<br>DMX Value<br>96 → 127 |
|         |                       | HSI Mode      | 13% → 24%  | 32 → 63   |             |              |                                 |
|         |                       | RGBW Mode     | 25% → 37%  | 64 → 95   |             |              |                                 |
|         |                       | Gel Mode      | 38% → 49%  | 96 → 127  |             |              |                                 |
|         |                       | Effect Mode   | 50% → 62%  | 128 → 159 |             |              |                                 |
|         |                       | Reserved      | 63% → 100% | 160 → 255 |             |              |                                 |
| 3       | Param. #1<br>Base CCT | 3200K         | 0% → 49%   | 0 → 127   | 0           | Step         |                                 |
|         |                       | 5600K         | 50% → 100% | 128 → 255 |             |              |                                 |
| 4       | Param. #2<br>Brand    | Lee           | 0% → 38%   | 0 → 99    | 0           | Step         |                                 |
|         |                       | Reserved      | 39% → 100% | 100 → 255 |             |              |                                 |
| 5       | Param. #3<br>Gel      | See Gel Chart | 0% → 100%  | 0 → 255   | 0           | Step         |                                 |
| 6-14    | Param. #4-12<br>N/A   | /             | /          | /         | /           | /            |                                 |
| 15      | Fan                   | Smart         | 0% → 24%   | 0 → 63    | 0           | Step         |                                 |
|         |                       | Full Speed    | 25% → 49%  | 64 → 127  |             |              |                                 |
|         |                       | Low Speed     | 50% → 74%  | 128 → 191 |             |              |                                 |
|         |                       | Off           | 75% → 100% | 192 → 255 |             |              |                                 |

## Ultimate DMX 8bit - Effect Mode

| Channel | Attribute        | Function    | % Value    | DMX Value | DMX Default | Control Type | Notes                      |
|---------|------------------|-------------|------------|-----------|-------------|--------------|----------------------------|
| 1       | Dimmer           | 0% → 100.0% | 0% → 100%  | 0 → 255   | 0           | Fade         |                            |
| 2       | Mode             | CCT Mode    | 0% → 12%   | 0 → 31    | 0           | Step         | Select DMX Value 128 → 159 |
|         |                  | HSI Mode    | 13% → 24%  | 32 → 63   |             |              |                            |
|         |                  | RGBW Mode   | 25% → 37%  | 64 → 95   |             |              |                            |
|         |                  | Gel Mode    | 38% → 49%  | 96 → 127  |             |              |                            |
|         |                  | Effect Mode | 50% → 62%  | 128 → 159 |             |              |                            |
|         |                  | Reserved    | 63% → 100% | 160 → 255 |             |              |                            |
| 3       | Param. #1 Effect | Hue Loop    | 0% → 4%    | 0 → 12    | 0           | Step         |                            |
|         |                  | CCT Loop    | 5% → 9%    | 13 → 25   |             |              |                            |
|         |                  | Int Loop    | 10% → 14%  | 26 → 38   |             |              |                            |
|         |                  | Flash       | 15% → 19%  | 39 → 51   |             |              |                            |
|         |                  | Pulse       | 20% → 24%  | 52 → 64   |             |              |                            |
|         |                  | Storm       | 25% → 30%  | 65 → 77   |             |              |                            |
|         |                  | Police Car  | 31% → 35%  | 78 → 90   |             |              |                            |
|         |                  | TV          | 36% → 40%  | 91 → 103  |             |              |                            |
|         |                  | Paparazzi   | 41% → 45%  | 104 → 116 |             |              |                            |
|         |                  | Candle/Fire | 46% → 50%  | 117 → 129 |             |              |                            |
|         |                  | Disco       | 51% → 55%  | 130 → 142 |             |              |                            |
|         |                  | Bad Bulb    | 56% → 60%  | 143 → 155 |             |              |                            |
|         |                  | Firework    | 61% → 65%  | 156 → 168 |             |              |                            |
|         |                  | Explosion   | 66% → 70%  | 169 → 181 |             |              |                            |
|         |                  | Welding     | 71% → 75%  | 182 → 194 |             |              |                            |
|         |                  | Reserved    | 76% → 100% | 195 → 255 |             |              |                            |
| 4       | Param. #2        | 0 → 255     | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart       |
| 5       | Param. #3        | 0 → 255     | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart       |
| 6       | Param. #4        | 0 → 255     | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart       |
| 7       | Param. #5        | 0 → 255     | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart       |

| Channel | Attribute  | Function   | % Value    | DMX Value | DMX Default | Control Type | Notes                |
|---------|------------|------------|------------|-----------|-------------|--------------|----------------------|
| 8       | Param. #6  | 0 → 255    | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart |
| 9       | Param. #7  | 0 → 255    | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart |
| 10      | Param. #8  | 0 → 255    | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart |
| 11      | Param. #9  | 0 → 255    | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart |
| 12      | Param. #10 | 0 → 255    | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart |
| 13      | Param. #11 | 0 → 255    | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart |
| 14      | Param. #12 | 0 → 255    | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart |
| 15      | Fan        | Smart      | 0% → 24%   | 0 → 63    | 0           | Step         |                      |
|         |            | Full Speed | 25% → 49%  | 64 → 127  |             |              |                      |
|         |            | Low Speed  | 50% → 74%  | 128 → 191 |             |              |                      |
|         |            | Off        | 75% → 100% | 192 → 255 |             |              |                      |

## DMX Effect Charts

### HUE Loop (0 ≤ CH3 Value ≤ 12)

| Channel               | Attribute           | Function     | % Value    | DMX Value |
|-----------------------|---------------------|--------------|------------|-----------|
| CH4/Param. #2         | Hue1                | 0 → 360      | 0% → 100%  | 0 → 255   |
| CH5/Param. #3         | Hue2                | 0 → 360      | 0% → 100%  | 0 → 255   |
| CH6/Param. #4         | Saturation          | 0 → 100      | 0% → 100%  | 0 → 255   |
| CH7/Param. #5         | Speed               | 2s → 30s     | 0% → 100%  | 0 → 255   |
| CH8/Param. #6         | Cycle               | One Way      | 0% → 32%   | 0 → 84    |
|                       |                     | Two Way      | 33% → 66%  | 85 → 170  |
|                       |                     | Reverse      | 67% → 100% | 171 → 255 |
| CH9/Param. #7         | Add-on              | Off          | 0% → 24%   | 0 → 63    |
|                       |                     | Flash        | 25% → 49%  | 64 → 127  |
|                       |                     | Random Flash | 50% → 74%  | 128 → 191 |
|                       |                     | Pulse        | 75% → 100% | 192 → 255 |
| CH10/Param. #8        | N/A(Off)            | /            | /          | /         |
|                       | Intervals(Flash)    | 0.1s → 10.0s | 0% → 100%  | 0 → 255   |
|                       | Speed(Random Flash) | 1 → 100      | 0% → 100%  | 0 → 255   |
|                       | Pulses/Min(Pulse)   | 1 → 240      | 0% → 100%  | 0 → 255   |
| CH11/Param. #9        | N/A(Off)            | /            | /          | /         |
|                       | Ratio(Flash)        | 0% → 100%    | 0% → 100%  | 0 → 255   |
|                       | N/A(Random Flash)   | /            | /          | /         |
|                       | N/A(Pulse)          | /            | /          | /         |
| CH12-14/Param. #10-12 | N/A                 | /            | /          | /         |

## CCT Loop (13 ≤ CH3 Value ≤ 25)

| Channel               | Attribute           | Function      | % Value    | DMX Value |
|-----------------------|---------------------|---------------|------------|-----------|
| CH4/Param. #2         | CCT1                | 2700K → 7500K | 0% → 100%  | 0 → 255   |
| CH5/Param. #3         | CCT2                | 2700K → 7500K | 0% → 100%  | 0 → 255   |
| CH6/Param. #4         | G/M                 | -150 → 150    | 0% → 100%  | 0 → 255   |
| CH7/Param. #5         | Speed               | 2s → 30s      | 0% → 100%  | 0 → 255   |
| CH8/Param. #6         | Cycle               | One Way       | 0% → 32%   | 0 → 84    |
|                       |                     | Two Way       | 33% → 66%  | 85 → 170  |
|                       |                     | Reverse       | 67% → 100% | 171 → 255 |
| CH9/Param. #7         | Add-on              | Off           | 0% → 24%   | 0 → 63    |
|                       |                     | Flash         | 25% → 49%  | 64 → 127  |
|                       |                     | Random Flash  | 50% → 74%  | 128 → 191 |
|                       |                     | Pulse         | 75% → 100% | 192 → 255 |
| CH10/Param. #8        | N/A(Off)            | /             | /          | /         |
|                       | Intervals(Flash)    | 0.1s → 10.0s  | 0% → 100%  | 0 → 255   |
|                       | Speed(Random Flash) | 1 → 100       | 0% → 100%  | 0 → 255   |
|                       | Pulses/Min(Pulse)   | 1 → 240       | 0% → 100%  | 0 → 255   |
| CH11/Param. #9        | N/A(Off)            | /             | /          | /         |
|                       | Ratio(Flash)        | 0% → 100%     | 0% → 100%  | 0 → 255   |
|                       | N/A(Random Flash)   | /             | /          | /         |
|                       | N/A(Pulse)          | /             | /          | /         |
| CH12-14/Param. #10-12 | N/A                 | /             | /          | /         |

## Int Loop (26 ≤ CH3 Value ≤ 38)

| Channel               | Attribute            | Function      | % Value    | DMX Value |
|-----------------------|----------------------|---------------|------------|-----------|
| CH4/Param. #2         | Dim Low              | 0% → 100.0%   | 0% → 100%  | 0 → 255   |
| CH5/Param. #3         | Color                | CCT Mode      | 0% → 49%   | 0 → 127   |
|                       |                      | HSI Mode      | 50% → 100% | 128 → 255 |
| CH6/Param. #4         | CCT(CCT Mode)        | 2700K → 7500K | 0% → 100%  | 0 → 255   |
|                       | Hue(HSI Mode)        | 0 → 360       | 0% → 100%  | 0 → 255   |
| CH7/Param. #5         | G/M(CCT Mode)        | -150 → 150    | 0% → 100%  | 0 → 255   |
|                       | Saturation(HSI Mode) | 0 → 100       | 0% → 100%  | 0 → 255   |
| CH8/Param. #6         | Speed                | 2s → 30s      | 0% → 100%  | 0 → 255   |
| CH9/Param. #7         | Cycle                | One Way       | 0% → 32%   | 0 → 84    |
|                       |                      | Two Way       | 33% → 66%  | 85 → 170  |
|                       |                      | Reverse       | 67% → 100% | 171 → 255 |
| CH10/Param. #8        | Add-on               | Off           | 0% → 24%   | 0 → 63    |
|                       |                      | Flash         | 25% → 49%  | 64 → 127  |
|                       |                      | Random Flash  | 50% → 74%  | 128 → 191 |
|                       |                      | Pulse         | 75% → 100% | 192 → 255 |
| CH11/Param. #9        | N/A(Off)             | /             | /          | /         |
|                       | Intervals(Flash)     | 0.1s → 10.0s  | 0% → 100%  | 0 → 255   |
|                       | Speed(Random Flash)  | 1 → 100       | 0% → 100%  | 0 → 255   |
|                       | Pulses/Min(Pulse)    | 1 → 240       | 0% → 100%  | 0 → 255   |
| CH12/Param. #10       | N/A(Off)             | /             | /          | /         |
|                       | Ratio(Flash)         | 0% → 100%     | 0% → 100%  | 0 → 255   |
|                       | N/A(Random Flash)    | /             | /          | /         |
|                       | N/A(Pulse)           | /             | /          | /         |
| CH13-14/Param. #11-12 | N/A                  | /             | /          | /         |

## Flash (39 ≤ CH3 Value ≤ 51)

| Channel              | Attribute            | Function      | % Value    | DMX Value |
|----------------------|----------------------|---------------|------------|-----------|
| CH4/Param. #2        | Color                | CCT Mode      | 0% → 49%   | 0 → 127   |
|                      |                      | HSI Mode      | 50% → 100% | 128 → 255 |
| CH5/Param. #3        | CCT(CCT Mode)        | 2700K → 7500K | 0% → 100%  | 0 → 255   |
|                      | Hue(HSI Mode)        | 0 → 360       | 0% → 100%  | 0 → 255   |
| CH6/Param. #4        | G/M(CCT Mode)        | -150 → 150    | 0% → 100%  | 0 → 255   |
|                      | Saturation(HSI Mode) | 0 → 100       | 0% → 100%  | 0 → 255   |
| CH7/Param. #5        | Intervals            | 0.1s → 10.0s  | 0% → 100%  | 0 → 255   |
| CH8/Param. #6        | Flash Ratio          | 0% → 100%     | 0% → 100%  | 0 → 255   |
| CH9/Param. #7        | Pause                | Off           | 0% → 49%   | 0 → 127   |
|                      |                      | On            | 50% → 100% | 128 → 255 |
| CH10-14/Param. #8-12 | N/A                  | /             | /          | /         |

## Pulse (52 ≤ CH3 Value ≤ 64)

| Channel             | Attribute            | Function      | % Value    | DMX Value |
|---------------------|----------------------|---------------|------------|-----------|
| CH4/Param. #2       | Color                | CCT Mode      | 0% → 49%   | 0 → 127   |
|                     |                      | HSI Mode      | 50% → 100% | 128 → 255 |
| CH5/Param. #3       | CCT(CCT Mode)        | 2700K → 7500K | 0% → 100%  | 0 → 255   |
|                     | Hue(HSI Mode)        | 0 → 360       | 0% → 100%  | 0 → 255   |
| CH6/Param. #4       | G/M(CCT Mode)        | -150 → 150    | 0% → 100%  | 0 → 255   |
|                     | Saturation(HSI Mode) | 0 → 100       | 0% → 100%  | 0 → 255   |
| CH7/Param. #5       | Pulses/Min           | 1 → 240       | 0% → 100%  | 0 → 255   |
| CH8/Param. #6       | N/A                  | /             | /          | /         |
| CH9-14/Param. #7-12 | N/A                  | /             | /          | /         |

## Storm (65 ≤ CH3 Value ≤ 77)

| Channel              | Attribute           | Function      | % Value    | DMX Value |
|----------------------|---------------------|---------------|------------|-----------|
| CH4/Param. #2        | CCT                 | 2700K → 7500K | 0% → 100%  | 0 → 255   |
| CH5/Param. #3        | Flash Times High    | 1 → 10        | 0% → 100%  | 0 → 255   |
| CH6/Param. #4        | Flash Times Low     | 1 → 10        | 0% → 100%  | 0 → 255   |
| CH7/Param. #5        | Trigger             | Auto          | 0% → 49%   | 0 → 127   |
|                      |                     | Manual        | 50% → 100% | 128 → 255 |
| CH8/Param. #6        | Interval High(Auto) | 1s → 60s      | 0% → 100%  | 0 → 255   |
|                      | Trigger(Manual)     | Off           | 0% → 49%   | 0 → 127   |
|                      |                     | On            | 50% → 100% | 128 → 255 |
| CH9/Param. #7        | Interval Low(Auto)  | 1s → 60s      | 0% → 100%  | 0 → 255   |
|                      | N/A(Manual)         | /             | /          | /         |
| CH10/Param. #8       | Pause(Auto)         | Off           | 0% → 49%   | 0 → 127   |
|                      |                     | On            | 50% → 100% | 128 → 255 |
|                      | N/A(Manual)         | /             | /          | /         |
| CH11-14/Param. #9-12 | N/A                 | /             | /          | /         |

## Police Car (78 ≤ CH3 Value ≤ 90)

| Channel             | Attribute | Function           | % Value    | DMX Value |
|---------------------|-----------|--------------------|------------|-----------|
| CH4/Param. #2       | Color     | Blue               | 0% → 24%   | 0 → 63    |
|                     |           | Red & Blue         | 25% → 49%  | 64 → 127  |
|                     |           | Blue & White       | 50% → 74%  | 128 → 191 |
|                     |           | Red & Blue & White | 75% → 100% | 192 → 255 |
| CH5/Param. #3       | Mode      | Single             | 0% → 24%   | 0 → 63    |
|                     |           | Double             | 25% → 49%  | 64 → 127  |
|                     |           | Triple             | 50% → 74%  | 128 → 191 |
|                     |           | Quad               | 75% → 100% | 192 → 255 |
| CH6/Param. #4       | Speed     | 1 → 100            | 0% → 100%  | 0 → 255   |
| CH7-8/Param. #5-6   | N/A       | /                  | /          | /         |
| CH9-14/Param. #7-12 | N/A       | /                  | /          | /         |

## TV (91 ≤ CH3 Value ≤ 103)

| Channel              | Attribute            | Function      | % Value    | DMX Value |
|----------------------|----------------------|---------------|------------|-----------|
| CH4/Param. #2        | Dim Low              | 0% → 100.0%   | 0% → 100%  | 0 → 255   |
| CH5/Param. #3        | Color                | CCT Mode      | 0% → 49%   | 0 → 127   |
|                      |                      | HSI Mode      | 50% → 100% | 128 → 255 |
| CH6/Param. #4        | CCT(CCT Mode)        | 2700K → 7500K | 0% → 100%  | 0 → 255   |
|                      | Hue(HSI Mode)        | 0 → 360       | 0% → 100%  | 0 → 255   |
| CH7/Param. #5        | G/M(CCT Mode)        | -150 → 150    | 0% → 100%  | 0 → 255   |
|                      | Saturation(HSI Mode) | 0 → 100       | 0% → 100%  | 0 → 255   |
| CH8/Param. #6        | CCT Shift(CCT Mode)  | 0K → 3000K    | 0% → 100%  | 0 → 255   |
|                      | Hue Shift(HSI Mode)  | 0 → 180       | 0% → 100%  | 0 → 255   |
| CH9/Param. #7        | Speed                | 1 → 100       | 0% → 100%  | 0 → 255   |
| CH10-14/Param. #8-12 | N/A                  | /             | /          | /         |

## Paparazzi (104 ≤ CH3 Value ≤ 116)

| Channel             | Attribute | Function      | % Value   | DMX Value |
|---------------------|-----------|---------------|-----------|-----------|
| CH4/Param. #2       | CCT       | 2700K → 7500K | 0% → 100% | 0 → 255   |
| CH5/Param. #3       | G/M       | -150 → 150    | 0% → 100% | 0 → 255   |
| CH6/Param. #4       | Speed     | 1 → 100       | 0% → 100% | 0 → 255   |
| CH7-8/Param. #5-6   | N/A       | /             | /         | /         |
| CH9-14/Param. #7-12 | N/A       | /             | /         | /         |

## Candle/Fire (117 ≤ CH3 Value ≤ 129)

| Channel              | Attribute            | Function      | % Value    | DMX Value |
|----------------------|----------------------|---------------|------------|-----------|
| CH4/Param. #2        | Dim Low              | 0% → 100.0%   | 0% → 100%  | 0 → 255   |
| CH5/Param. #3        | Color                | CCT Mode      | 0% → 49%   | 0 → 127   |
|                      |                      | HSI Mode      | 50% → 100% | 128 → 255 |
| CH6/Param. #4        | CCT(CCT Mode)        | 2700K → 7500K | 0% → 100%  | 0 → 255   |
|                      | Hue(HSI Mode)        | 0 → 360       | 0% → 100%  | 0 → 255   |
| CH7/Param. #5        | G/M(CCT Mode)        | -150 → 150    | 0% → 100%  | 0 → 255   |
|                      | Saturation(HSI Mode) | 0 → 100       | 0% → 100%  | 0 → 255   |
| CH8/Param. #6        | CCT Shift(CCT Mode)  | 0K → 3000K    | 0% → 100%  | 0 → 255   |
|                      | Hue Shift(HSI Mode)  | 0 → 180       | 0% → 100%  | 0 → 255   |
| CH9/Param. #7        | Speed                | 1 → 100       | 0% → 100%  | 0 → 255   |
| CH10/Param. #8       | Flicker              | Off           | 0% → 49%   | 0 → 127   |
|                      |                      | On            | 50% → 100% | 128 → 255 |
| CH11-14/Param. #9-12 | N/A                  | /             | /          | /         |

## Disco (130 ≤ CH3 Value ≤ 142)

| Channel         | Attribute       | Function | % Value    | DMX Value |
|-----------------|-----------------|----------|------------|-----------|
| CH4/Param. #2   | Color           | Default  | 0% → 49%   | 0 → 127   |
|                 |                 | Manual   | 50% → 100% | 128 → 255 |
| CH5/Param. #3   | Amount(Default) | 3        | 0% → 12%   | 0 → 31    |
|                 |                 | 6        | 13% → 24%  | 32 → 63   |
|                 |                 | 9        | 25% → 37%  | 64 → 95   |
|                 |                 | 12       | 38% → 49%  | 96 → 127  |
|                 |                 | 15       | 50% → 62%  | 128 → 159 |
|                 |                 | 18       | 63% → 74%  | 160 → 191 |
|                 |                 | 21       | 75% → 87%  | 192 → 223 |
|                 |                 | 24       | 88% → 100% | 224 → 255 |
|                 | Amount(Manual)  | 1        | 0% → 16%   | 0 → 42    |
|                 |                 | 2        | 17% → 32%  | 43 → 84   |
|                 |                 | 3        | 33% → 49%  | 85 → 127  |
|                 |                 | 4        | 50% → 66%  | 128 → 170 |
|                 |                 | 5        | 67% → 83%  | 171 → 212 |
|                 |                 | 6        | 84% → 100% | 213 → 255 |
| CH6/Param. #4   | Speed           | 1 → 100  | 0% → 100%  | 0 → 255   |
| CH7/Param. #5   | Saturation      | 0 → 100  | 0% → 100%  | 0 → 255   |
| CH8/Param. #6   | N/A(Default)    | /        | /          | /         |
|                 | C1 Hue(Manual)  | 0 → 360  | 0% → 100%  | 0 → 255   |
| CH9/Param. #7   | N/A(Default)    | /        | /          | /         |
|                 | C2 Hue(Manual)  | 0 → 360  | 0% → 100%  | 0 → 255   |
| CH10/Param. #8  | N/A(Default)    | /        | /          | /         |
|                 | C3 Hue(Manual)  | 0 → 360  | 0% → 100%  | 0 → 255   |
| CH11/Param. #9  | N/A(Default)    | /        | /          | /         |
|                 | C4 Hue(Manual)  | 0 → 360  | 0% → 100%  | 0 → 255   |
| CH12/Param. #10 | N/A(Default)    | /        | /          | /         |
|                 | C5 Hue(Manual)  | 0 → 360  | 0% → 100%  | 0 → 255   |

| Channel         | Attribute      | Function | % Value   | DMX Value |
|-----------------|----------------|----------|-----------|-----------|
| CH13/Param. #11 | N/A(Default)   | /        | /         | /         |
|                 | C6 Hue(Manual) | 0 → 360  | 0% → 100% | 0 → 255   |
| CH14/Param. #12 | N/A            | /        | /         | /         |

## Bad Bulb (143 ≤ CH3 Value ≤ 155)

| Channel             | Attribute            | Function      | % Value    | DMX Value |
|---------------------|----------------------|---------------|------------|-----------|
| CH4/Param. #2       | Color                | CCT Mode      | 0% → 49%   | 0 → 127   |
|                     |                      | HSI Mode      | 50% → 100% | 128 → 255 |
| CH5/Param. #3       | CCT(CCT Mode)        | 2700K → 7500K | 0% → 100%  | 0 → 255   |
|                     | Hue(HSI Mode)        | 0 → 360       | 0% → 100%  | 0 → 255   |
| CH6/Param. #4       | G/M(CCT Mode)        | -150 → 150    | 0% → 100%  | 0 → 255   |
|                     | Saturation(HSI Mode) | 0 → 100       | 0% → 100%  | 0 → 255   |
| CH7/Param. #5       | Intensity            | 1 → 100       | 0% → 100%  | 0 → 255   |
| CH8/Param. #6       | Speed                | 1 → 100       | 0% → 100%  | 0 → 255   |
| CH9-14/Param. #7-12 | N/A                  | /             | /          | /         |

## Firework (156 ≤ CH3 Value ≤ 168)

| Channel       | Attribute                      | Function      | % Value    | DMX Value |
|---------------|--------------------------------|---------------|------------|-----------|
| CH4/Param. #2 | Color                          | Default       | 0% → 32%   | 0 → 84    |
|               |                                | Manual        | 33% → 66%  | 85 → 170  |
|               |                                | CCT Mode      | 67% → 100% | 171 → 255 |
| CH5/Param. #3 | Amount(Default)                | 3             | 0% → 12%   | 0 → 31    |
|               |                                | 6             | 13% → 24%  | 32 → 63   |
|               |                                | 9             | 25% → 37%  | 64 → 95   |
|               |                                | 12            | 38% → 49%  | 96 → 127  |
|               |                                | 15            | 50% → 62%  | 128 → 159 |
|               |                                | 18            | 63% → 74%  | 160 → 191 |
|               |                                | 21            | 75% → 87%  | 192 → 223 |
|               |                                | 24            | 88% → 100% | 224 → 255 |
|               | Amount(Manual)                 | 1             | 0% → 16%   | 0 → 42    |
|               |                                | 2             | 17% → 32%  | 43 → 84   |
|               |                                | 3             | 33% → 49%  | 85 → 127  |
|               |                                | 4             | 50% → 66%  | 128 → 170 |
|               |                                | 5             | 67% → 83%  | 171 → 212 |
|               |                                | 6             | 84% → 100% | 213 → 255 |
|               | CCT(CCT Mode)                  | 2700K → 7500K | 0% → 100%  | 0 → 255   |
| CH6/Param. #4 | Saturation<br>(Default/Manual) | 0 → 100       | 0% → 100%  | 0 → 255   |
|               | G/M(CCT Mode)                  | -150 → 150    | 0% → 100%  | 0 → 255   |
| CH7/Param. #5 | Speed                          | 1 → 100       | 0% → 100%  | 0 → 255   |
| CH8/Param. #6 | Decay                          | 1 → 100       | 0% → 100%  | 0 → 255   |
| CH9/Param. #7 | N/A(Default)                   | /             | /          | /         |
|               | C1 Hue(Manual)                 | 0 → 360       | 0% → 100%  | 0 → 255   |
|               | CCT Shift(CCT Mode)            | 0K → 3000K    | 0% → 100%  | 0 → 255   |

| Channel         | Attribute      | Function | % Value   | DMX Value |
|-----------------|----------------|----------|-----------|-----------|
| CH10/Param. #8  | N/A(Default)   | /        | /         | /         |
|                 | C2 Hue(Manual) | 0 → 360  | 0% → 100% | 0 → 255   |
|                 | N/A(CCT Mode)  | /        | /         | /         |
| CH11/Param. #9  | N/A(Default)   | /        | /         | /         |
|                 | C3 Hue(Manual) | 0 → 360  | 0% → 100% | 0 → 255   |
|                 | N/A(CCT Mode)  | /        | /         | /         |
| CH12/Param. #10 | N/A(Default)   | /        | /         | /         |
|                 | C4 Hue(Manual) | 0 → 360  | 0% → 100% | 0 → 255   |
|                 | N/A(CCT Mode)  | /        | /         | /         |
| CH13/Param. #11 | N/A(Default)   | /        | /         | /         |
|                 | C5 Hue(Manual) | 0 → 360  | 0% → 100% | 0 → 255   |
|                 | N/A(CCT Mode)  | /        | /         | /         |
| CH14/Param. #12 | N/A(Default)   | /        | /         | /         |
|                 | C6 Hue(Manual) | 0 → 360  | 0% → 100% | 0 → 255   |
|                 | N/A(CCT Mode)  | /        | /         | /         |

## Explosion ( $169 \leq \text{CH3 Value} \leq 181$ )

| Channel              | Attribute            | Function      | % Value    | DMX Value |
|----------------------|----------------------|---------------|------------|-----------|
| CH4/Param. #2        | Color                | CCT Mode      | 0% → 49%   | 0 → 127   |
|                      |                      | HSI Mode      | 50% → 100% | 128 → 255 |
| CH5/Param. #3        | CCT(CCT Mode)        | 2700K → 7500K | 0% → 100%  | 0 → 255   |
|                      | Hue(HSI Mode)        | 0 → 360       | 0% → 100%  | 0 → 255   |
| CH6/Param. #4        | G/M(CCT Mode)        | -150 → 150    | 0% → 100%  | 0 → 255   |
|                      | Saturation(HSI Mode) | 0 → 100       | 0% → 100%  | 0 → 255   |
| CH7/Param. #5        | Decay                | 1 → 100       | 0% → 100%  | 0 → 255   |
| CH8/Param. #6        | Trigger              | Auto          | 0% → 49%   | 0 → 127   |
|                      |                      | Manual        | 50% → 100% | 128 → 255 |
| CH9/Param. #7        | Speed(Auto)          | 1 → 100       | 0% → 100%  | 0 → 255   |
|                      | Trigger(Manual)      | Off           | 0% → 49%   | 0 → 127   |
|                      |                      | On            | 50% → 100% | 128 → 255 |
| CH10-14/Param. #8-12 | N/A                  | /             | /          | /         |

## Welding (182 ≤ CH3 Value ≤ 194)

| Channel              | Attribute            | Function      | % Value    | DMX Value |
|----------------------|----------------------|---------------|------------|-----------|
| CH4/Param. #2        | Dim Low              | 0% → 100.0%   | 0% → 100%  | 0 → 255   |
| CH5/Param. #3        | Color                | CCT Mode      | 0% → 49%   | 0 → 127   |
|                      |                      | HSI Mode      | 50% → 100% | 128 → 255 |
| CH6/Param. #4        | CCT(CCT Mode)        | 2700K → 7500K | 0% → 100%  | 0 → 255   |
|                      | Hue(HSI Mode)        | 0 → 360       | 0% → 100%  | 0 → 255   |
| CH7/Param. #5        | G/M(CCT Mode)        | -150 → 150    | 0% → 100%  | 0 → 255   |
|                      | Saturation(HSI Mode) | 0 → 100       | 0% → 100%  | 0 → 255   |
| CH8/Param. #6        | Speed                | 1 → 100       | 0% → 100%  | 0 → 255   |
| CH9/Param. #7        | Pause                | Off           | 0% → 49%   | 0 → 127   |
|                      |                      | On            | 50% → 100% | 128 → 255 |
| CH10-14/Param. #8-12 | N/A                  | /             | /          | /         |