

# NANLITE

## FC-120C

### DMX CHARTS

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## Revision History

| Version | Date (Y-M-D) | Note          |
|---------|--------------|---------------|
| V1.0    | 2025-01-21   | First Release |

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## CCT & RGBW 8bit

| Channel   | Attribute | Function                          | % Value     | DMX Value | DMX Default | Control Type | Notes                   |
|---|-----------|-----------------------------------|-------------|-----------|-------------|--------------|-------------------------|
| 1   | Dimmer    | 0% → 100%                         | 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |           |                                   |             |           |             |              |                         |
| 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% → 100%                         | 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |           |                                   |             |               |             |              |                         |             |
| 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% → 100%                         | 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |            |                                   |             |           |             |              |                         |
| 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% → 100%                         | 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |            |                                   |             |               |             |              |                         |
| 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% → 100%                         | 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |           |                                   |             |           |             |              |                         |
| 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% → 100%                         | 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |           |                                   |             |               |             |              |                         |
| 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% → 100%                         | 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |            |                                   |             |           |             |              |             |
| 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% → 100%                         | 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |            |                                   |             |           |             |              |             |
| 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% → 100%                         | 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |           |                                   |             |           |             |              |             |
| 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% → 100%                         | 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |           |                                   |             |           |             |              |             |
| 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |           |                                   |             |           |             |              |             |
| 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 Reduce Channels" is set to "ON", the following channels will be Reduce. |           |                                   |             |           |             |              |             |
| 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  | /                                 | /           | /         | /           | /            |             |

## Ultimate DMX 8bit - CCT Mode

| Channel | Attribute        | Function      | % Value    | DMX Value | DMX Default | Control Type | Notes                   |
|---------|------------------|---------------|------------|-----------|-------------|--------------|-------------------------|
| 1       | Dimmer           | 0% → 100%     | 0% → 100%  | 0 → 255   | 0           | Fade         |                         |
| 2       | Mode             | CCT Mode      | 0% → 12%   | 0 → 31    | 0           | Step         | Select DMX Value 0 → 31 |
|         |                  | HSI Mode      | 13% → 24%  | 32 → 63   |             |              |                         |
|         |                  | RGBW Mode     | 25% → 37%  | 64 → 95   |             |              |                         |
|         |                  | Effect Mode   | 38% → 49%  | 96 → 127  |             |              |                         |
|         |                  | Reserved      | 50% → 100% | 128 → 255 |             |              |                         |
| 3       | Param. #1 CCT    | 2700K → 7500K | 0% → 100%  | 0 → 255   | 0           | Fade         |                         |
| 4       | Param. #2 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 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% → 100%   | 0% → 100%  | 0 → 255   | 0           | Fade         |                          |
| 2       | Mode                 | CCT Mode    | 0% → 12%   | 0 → 31    | 0           | Step         | Select DMX Value 32 → 63 |
|         |                      | HSI Mode    | 13% → 24%  | 32 → 63   |             |              |                          |
|         |                      | RGBW Mode   | 25% → 37%  | 64 → 95   |             |              |                          |
|         |                      | Effect Mode | 38% → 49%  | 96 → 127  |             |              |                          |
|         |                      | Reserved    | 50% → 100% | 128 → 255 |             |              |                          |
| 3       | Param. #1 Hue        | 0 → 360     | 0% → 100%  | 0 → 255   | 0           | Fade         |                          |
| 4       | Param. #2 Saturation | 0 → 100     | 0% → 100%  | 0 → 255   | 0           | Fade         |                          |
| 5-14    | Param. #3-12 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% → 100%   | 0% → 100%  | 0 → 255   | 0           | Fade         |                          |
| 2       | Mode                | CCT Mode    | 0% → 12%   | 0 → 31    | 0           | Step         | Select DMX Value 64 → 95 |
|         |                     | HSI Mode    | 13% → 24%  | 32 → 63   |             |              |                          |
|         |                     | RGBW Mode   | 25% → 37%  | 64 → 95   |             |              |                          |
|         |                     | Effect Mode | 38% → 49%  | 96 → 127  |             |              |                          |
|         |                     | Reserved    | 50% → 100% | 128 → 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 - Effect Mode

| Channel  | Attribute        | Function    | % Value    | DMX Value | DMX Default | Control Type | Notes                     |
|----------|------------------|-------------|------------|-----------|-------------|--------------|---------------------------|
| 1        | Dimmer           | 0% → 100%   | 0% → 100%  | 0 → 255   | 0           | Fade         |                           |
| 2        | Mode             | CCT Mode    | 0% → 12%   | 0 → 31    | 0           | Step         | Select DMX Value 96 → 127 |
|          |                  | HSI Mode    | 13% → 24%  | 32 → 63   |             |              |                           |
|          |                  | RGBW Mode   | 25% → 37%  | 64 → 95   |             |              |                           |
|          |                  | Effect Mode | 38% → 49%  | 96 → 127  |             |              |                           |
|          |                  | Reserved    | 50% → 100% | 128 → 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      |
| 8        | Param. #6        | 0 → 255     | 0% → 100%  | 0 → 255   | 0           | /            | See DMX Effect Chart      |

| Channel | Attribute  | Function   | % Value    | DMX Value | DMX Default | Control Type | Notes                |
|---------|------------|------------|------------|-----------|-------------|--------------|----------------------|
| 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% → 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   |
| CH8-14/Param. #6-12 | N/A                  | /             | /          | /         |

## Storm ( $65 \leq \text{CH3 Value} \leq 77$ )

| 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   |
| CH7-14/Param. #5-12 | N/A       | /                  | /          | /         |

## TV (91 ≤ CH3 Value ≤ 103)

| Channel              | Attribute            | Function      | % Value    | DMX Value |
|----------------------|----------------------|---------------|------------|-----------|
| CH4/Param. #2        | Dim Low              | 0% → 100%     | 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   |
| CH7-14/Param. #5-12 | N/A       | /             | /         | /         |

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

| Channel              | Attribute            | Function      | % Value    | DMX Value |
|----------------------|----------------------|---------------|------------|-----------|
| CH4/Param. #2        | Dim Low              | 0% → 100%     | 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 ( $143 \leq \text{CH3 Value} \leq 155$ )

| 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 (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 ≤ CH3 Value ≤ 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% → 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                  | /             | /          | /         |