

# Kino Flo True Match™ Firmware DMX Mapping WHITE MODE



## CHANNEL FUNCTION

| Channel          | 8 BIT DIMMING   | 16 BIT DIMMING                   |
|------------------|-----------------|----------------------------------|
| BASE ADDRESS     | DIMMING         | DIMMING (MOST SIGNIFICANT BYTE)  |
| BASE ADDRESS + 1 | KELVIN (CCT)    | DIMMING (LEAST SIGNIFICANT BYTE) |
| BASE ADDRESS + 2 | GREEN / MAGENTA | KELVIN (CCT)                     |
| BASE ADDRESS + 3 |                 | GREEN / MAGENTA                  |

## 6 channel mode (8 bit dimming)

### DIMMING

#### 8 bit DIMMING SQUARE

OR

#### 8 bit DIMMING LINEAR

| DMX VALUE   | DIM      |
|---|----------|
| 0 to 255  | 0 to 100 |
| IF DMX VALUE < 51<br>then DIM = (DMX VALUE / 51) * 4<br>else<br>DIM = 100 * ((DMX VALUE / 255) ^ 2)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0.0      |
| 64  | 6.3      |
| 128   | 25.2     |
| 255   | 100.0    |

| DMX VALUE   | DIM      |
|---|----------|
| 0 to 255  | 0 to 100 |
| DIM = 100 * (DMX VALUE / 255)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0.0      |
| 64  | 25.1     |
| 128   | 50.2     |
| 255   | 100.0    |

### KELVIN

| DMX VALUE  | KELVIN (CCT)   |
|--|----------------|
| 0 to 255   | 2700k to 6500k |
| CCT = 2700 + DMX VALUE * (3800 / 255)<br>Rounded up to nearest 25K |                |
| DMX VALUE  | KELVIN (CCT)   |
| 0  | 2700           |
| 33   | 3200           |
| 154  | 5000           |
| 255  | 6500           |

### GREEN / MAGENTA

M = Magenta G = Green

| DMX VALUE  | G / M        |
|------------|--------------|
| 0 to 255   | 100M to 100G |
| 0 to 11    | 0 G/M        |
| 12 to 22   | 100 M        |
| 23 to 121  | 99 M to 1 M  |
| 122 to 133 | 0 G/M        |
| 134 to 232 | 1 G to 99 G  |
| 233 to 243 | 100 G        |
| 244 to 255 | 0 G/M        |

## 7 channel mode (16 bit dimming)

### DIMMING

#### 16 bit DIMMING SQUARE

OR

#### 16 bit DIMMING LINEAR

| DMX VALUE ( 2 channels )  | DIM      |
|---|----------|
| 0 to 65535  | 0 to 100 |
| IF DMX VALUE < 13107<br>then DIM = (DMX VALUE / 13107) * 4<br>else<br>DIM = 100 * ((DMX VALUE / 65535) ^ 2)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0        |
| 32768   | 25.0     |
| 49150   | 56.2     |
| 65535   | 100      |

| DMX VALUE ( 2 channels )  | DIM      |
|---|----------|
| 0 to 65535  | 0 to 100 |
| DIM = 100 * (DMX VALUE / 65535)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0.0      |
| 32768   | 50.0     |
| 49150   | 75.0     |
| 65535   | 100.0    |

# Kino Flo True Match™ Firmware DMX Mapping GELS / HUE COLOR MODE



## CHANNEL FUNCTION

| Channel          | 8 BIT DIMMING   | 16 BIT DIMMING                   |
|------------------|-----------------|----------------------------------|
| BASE ADDRESS     | DIMMING         | DIMMING (MOST SIGNIFICANT BYTE)  |
| BASE ADDRESS + 1 | KELVIN (CCT)    | DIMMING (LEAST SIGNIFICANT BYTE) |
| BASE ADDRESS + 2 | GREEN / MAGENTA | KELVIN (CCT)                     |
| BASE ADDRESS + 3 | GEL LIST        | GREEN / MAGENTA                  |
| BASE ADDRESS + 4 | HUE ANGLE       | GEL LIST                         |
| BASE ADDRESS + 5 | SATURATION      | HUE ANGLE                        |
| BASE ADDRESS + 6 | N / A           | SATURATION                       |

## 6 channel mode (8 bit dimming)

### DIMMING

#### 8 bit DIMMING SQUARE

OR

#### 8 bit DIMMING LINEAR

| DMX VALUE   | DIM      |
|---|----------|
| 0 to 255  | 0 to 100 |
| IF DMX VALUE < 51<br>then DIM = (DMX VALUE / 51) * 4<br>else<br>DIM = 100 * ((DMX VALUE / 255) ^ 2)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0.0      |
| 64  | 6.3      |
| 128   | 25.2     |
| 255   | 100.0    |

| DMX VALUE   | DIM      |
|---|----------|
| 0 to 255  | 0 to 100 |
| DIM = 100 * (DMX VALUE / 255)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0.0      |
| 64  | 25.1     |
| 128   | 50.2     |
| 255   | 100.0    |

### KELVIN

| DMX VALUE  | KELVIN (CCT)   |
|--|----------------|
| 0 to 255   | 2500k to 9900k |
| if DMX VALUE <= 200<br>then CCT = 2500 + DMX VALUE * (4000 / 200)<br>else<br>CCT = 6500 + (DMX VALUE - 200) * (3400 / 55)<br>Rounded up to nearest 25K |                |
| DMX VALUE  | KELVIN (CCT)   |
| 0  | 2500           |
| 35   | 3200           |
| 125  | 5000           |
| 200  | 6500           |
| 255  | 9900           |

### GREEN / MAGENTA

M = Magenta G = Green

| DMX VALUE  | G / M        |
|------------|--------------|
| 0 to 255   | 100M to 100G |
| 0 to 11    | 0 G/M        |
| 12 to 22   | 100 M        |
| 23 to 121  | 99 M to 1 M  |
| 122 to 133 | 0 G/M        |
| 134 to 232 | 1 G to 99 G  |
| 233 to 243 | 100 G        |
| 244 to 255 | 0 G/M        |

## 7 channel mode (16 bit dimming)

### DIMMING

#### 16 bit DIMMING SQUARE

OR

#### 16 bit DIMMING LINEAR

| DMX VALUE ( 2 channels )  | DIM      |
|---|----------|
| 0 to 65535  | 0 to 100 |
| IF DMX VALUE < 13107<br>then DIM = (DMX VALUE / 13107) * 4<br>else<br>DIM = 100 * ((DMX VALUE / 65535) ^ 2)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0        |
| 32768   | 25.0     |
| 49150   | 56.2     |
| 65535   | 100      |

| DMX VALUE ( 2 channels )  | DIM      |
|---|----------|
| 0 to 65535  | 0 to 100 |
| DIM = 100 * (DMX VALUE / 65535)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0.0      |
| 32768   | 50.0     |
| 49150   | 75.0     |
| 65535   | 100.0    |

### HUE ANGLE

Active if Green / Magenta < 3  
and GEL < 3

| DMX VALUE                           | Hue Angle |
|-------------------------------------|-----------|
| Hue Angle = DMX_VALUE * (360 / 255) |           |
| DMX VALUE                           | Hue Angle |
| 0                                   | 0         |
| 64                                  | 90        |
| 128                                 | 181       |
| 255                                 | 360       |

### SATURATION

Active if Green / Magenta < 3  
and GEL < 3

| DMX VALUE                        | Saturation |
|----------------------------------|------------|
| Saturation = DMX_VALUE*(100/255) |            |
| DMX VALUE                        | Saturation |
| 0                                | 0          |
| 64                               | 25         |
| 128                              | 50         |
| 255                              | 100        |

# Kino Flo True Match™ Firmware DMX Mapping

## GELS / HUE COLOR MODE



### GEL LIST

Active if Green / Magenta < 3

| DMX VALUE | GEL               | DMX VALUE | GEL             | DMX VALUE | GEL              | DMX VALUE | GEL            |
|-----------|-------------------|-----------|-----------------|-----------|------------------|-----------|----------------|
| 4         | KF Candle Flame   | 62        | Fire            | 120       | Leaf Green       | 178       | Pale Violet    |
| 6         | KF Flo Warm White | 64        | Sunset Red      | 122       | Fern Green       | 180       | Just Blue      |
| 8         | KF Flo Cool White | 66        | Pale Gold       | 124       | Primary Green    | 182       | Violet         |
| 10        | KF LP Sodium Vpr  | 68        | English Rose    | 126       | Moss Green       | 184       | Dark Blue      |
| 12        | KF Mercury Vpr    | 70        | Bastard Amber   | 128       | Dark Y Green     | 186       | Surprise Pink  |
| 14        | KF 20K Blue Sky   | 72        | Surprise Peach  | 130       | Dark Green       | 188       | Deeper Blue    |
| 16        | KF Green Screen   | 74        | Deep Gld Amber  | 132       | Marine Blue      | 190       | Special M Blue |
| 18        | KF Blue Screen    | 76        | Dark Amber      | 134       | Peacock Blue     | 192       | Zenith Blue    |
| 20        | Smokey Pink       | 78        | Apricot         | 136       | Med Blue-Green   | 194       | Light Lavender |
| 22        | Dark Magenta      | 80        | Gold Amber      | 138       | Sp Steel Blue    | 196       | Palace Blue    |
| 24        | Bright Rose       | 82        | Cosmetic Peach  | 140       | Lagoon Blue      | 198       | Lilac Tint     |
| 26        | Pale Salmon       | 84        | Deep Orange     | 142       | Steel Blue       | 200       | Deep Blue      |
| 28        | Light Rose        | 86        | Chocolate       | 144       | Lighter Blue     | 202       | Lavender Tint  |
| 30        | Light Salmon      | 88        | Orange          | 146       | Summer Blue      | 204       | Pale Lavender  |
| 32        | Magenta           | 90        | White Flame     | 148       | Light Blue       | 206       | Dark Lavender  |
| 34        | Pink              | 92        | Medium Amber    | 150       | Moonlight Blue   | 208       | Lavender       |
| 36        | Rosy Amber        | 94        | Pale Amber Gold | 152       | Pale Blue        | 210       | Deep Lavender  |
| 38        | Pale Red          | 96        | Chrome Orange   | 154       | Pale Navy Blue   | 212       | Congo Blue     |
| 40        | Scarlet           | 98        | Straw Tint      | 156       | Mist Blue        | 214       | Rose Purple    |
| 42        | Loving Amber      | 100       | Straw           | 158       | Bright Blue      | 216       | Mauve          |
| 44        | Pale Rose         | 102       | Deep Straw      | 160       | True Blue        | 218       | Rose Pink      |
| 46        | Medium Red        | 104       | Deep Amber      | 162       | Dark Steel Blue  | 220       | Follies Pink   |
| 48        | Gold Tint         | 106       | Light Amber     | 164       | Daylight Blue    | 222       | Bright Pink    |
| 50        | M Bastard Amber   | 108       | Yellow          | 166       | Slate Blue       | 224       | Middle Rose    |
| 52        | Bright Red        | 110       | Medium Yellow   | 168       | Medium Blue      | 226       | Medium Pink    |
| 54        | Flame Red         | 112       | Spring Yellow   | 170       | Sky Blue         | 228       | Light Pink     |
| 56        | Primary Red       | 114       | Pale Yellow     | 172       | Paler Lavender   | 230       | Dark Pink      |
| 58        | Light Red         | 116       | Lime Green      | 174       | Alice Blue       | 232       | Flesh Pink     |
| 60        | Dark Salmon       | 118       | Pale Green      | 176       | Special Lavender |           |                |

# Kino Flo True Match™ Firmware DMX Mapping

## RGB COLOR MODE



### CHANNEL FUNCTION

| Channel          | 8 BIT DIMMING   | 16 BIT DIMMING                   |
|------------------|-----------------|----------------------------------|
| BASE ADDRESS     | DIMMING         | DIMMING (MOST SIGNIFICANT BYTE)  |
| BASE ADDRESS + 1 | KELVIN (CCT)    | DIMMING (LEAST SIGNIFICANT BYTE) |
| BASE ADDRESS + 2 | GREEN / MAGENTA | KELVIN (CCT)                     |
| BASE ADDRESS + 3 | RED             | GREEN / MAGENTA                  |
| BASE ADDRESS + 4 | GREEN           | RED                              |
| BASE ADDRESS + 5 | BLUE            | GREEN                            |
| BASE ADDRESS + 6 | N / A           | BLUE                             |

### 6 channel mode (8 bit dimming)

#### DIMMING

##### 8 bit DIMMING SQUARE

OR

##### 8 bit DIMMING LINEAR

| DMX VALUE   | DIM      |
|---|----------|
| 0 to 255  | 0 to 100 |
| IF DMX VALUE < 51<br>then DIM = (DMX VALUE / 51) * 4<br>else<br>DIM = 100 * ((DMX VALUE / 255) ^ 2)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0.0      |
| 64  | 6.3      |
| 128   | 25.2     |
| 255   | 100.0    |

| DMX VALUE   | DIM      |
|---|----------|
| 0 to 255  | 0 to 100 |
| DIM = 100 * (DMX VALUE / 255)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0.0      |
| 64  | 25.1     |
| 128   | 50.2     |
| 255   | 100.0    |

#### KELVIN

| DMX VALUE  | KELVIN (CCT)   |
|--|----------------|
| 0 to 255   | 2500k to 9900k |
| if DMX VALUE <= 200<br>then CCT = 2500 + DMX VALUE * (4000 / 200)<br>else<br>CCT = 6500 + (DMX VALUE - 200) * (3400 / 55)<br>Rounded up to nearest 25K |                |
| DMX VALUE  | KELVIN (CCT)   |
| 10   | 2700           |
| 35   | 3200           |
| 125  | 5000           |
| 200  | 6500           |
| 255  | 9900           |

#### GREEN / MAGENTA

M = Magenta G = Green

| DMX VALUE  | G / M        |
|------------|--------------|
| 0 to 255   | 100M to 100G |
| 0 to 11    | 0 G/M        |
| 12 to 22   | 100 M        |
| 23 to 121  | 99 M to 1 M  |
| 122 to 133 | 0 G/M        |
| 134 to 232 | 1 G to 99 G  |
| 233 to 243 | 100 G        |
| 244 to 255 | 0 G/M        |

### 7 channel mode (16 bit dimming)

#### DIMMING

##### 16 bit DIMMING SQUARE

OR

##### 16 bit DIMMING LINEAR

| DMX VALUE ( 2 channels )  | DIM      |
|---|----------|
| 0 to 65535  | 0 to 100 |
| IF DMX VALUE < 13107<br>then DIM = (DMX VALUE / 13107) * 4<br>else<br>DIM = 100 * ((DMX VALUE / 65535) ^ 2)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0        |
| 32768   | 25.0     |
| 49150   | 56.2     |
| 65535   | 100      |

| DMX VALUE ( 2 channels )  | DIM      |
|---|----------|
| 0 to 65535  | 0 to 100 |
| DIM = 100 * (DMX VALUE / 65535)<br>If DIM > 0 AND < 0.1<br>then DIM = 0.1 |          |
| DMX VALUE   | DIM      |
| 0   | 0.0      |
| 32768   | 50.0     |
| 49150   | 75.0     |
| 65535   | 100.0    |

#### RED / GREEN / BLUE

Active if Green / Magenta < 3

| DMX VALUE                      | RED / GREEN / BLUE |
|--------------------------------|--------------------|
| RED / GREEN / BLUE = DMX VALUE |                    |
| DMX VALUE                      | RED / GREEN / BLUE |
| 0                              | 0                  |
| 64                             | 64                 |
| 128                            | 128                |
| 255                            | 255                |