

**Virtual Color Wheel (VCW)**

The Ovation E-910FC includes a feature called the Virtual Color Wheel (VCW). This feature is available as a standalone control mode for manual use and as a control channel in select DMX personalities. More than 30 premixed colors, custom blended by Chauvet engineers, are available to call up for easier programming.

The DMX values used to mix these colors are provided below. The overall intensity of the Ovation fixture can be adjusted to more closely replicate familiar industry-standard colors. A chart is available on [www.chauvetprofessional.com](http://www.chauvetprofessional.com) to compare Chauvet's premixed colors with popular gel colors. This chart is for comparison purposes only and is not an assertion that Chauvet's premixed colors match any of the gel colors listed.

**Virtual Color Wheel Chart**

| DMX Channel Value | Display Readout             | Red Value | Green Value | Blue Value | Amber Value | Lime Value |
|-------------------|-----------------------------|-----------|-------------|------------|-------------|------------|
| 000 ⇔ 005         | --                          | 000       | 000         | 000        | 000         | 000        |
| 006 ⇔ 013         | <b>C3050 - Md Yellow</b>    | 233       | 163         | 020        | 123         | 255        |
| 014 ⇔ 021         | <b>C3040 - Lt Yellow</b>    | 224       | 158         | 047        | 255         | 231        |
| 022 ⇔ 028         | <b>C3240 - Amb Yellow</b>   | 180       | 060         | 000        | 245         | 255        |
| 029 ⇔ 035         | <b>C2340 - VLt Amber</b>    | 245       | 107         | 081        | 255         | 213        |
| 036 ⇔ 043         | <b>C2040 - Lt Amber</b>     | 230       | 130         | 062        | 255         | 155        |
| 044 ⇔ 051         | <b>C2050 - Md Amber</b>     | 255       | 000         | 025        | 255         | 194        |
| 052 ⇔ 059         | <b>C2060 - Dk Amber</b>     | 255       | 000         | 024        | 255         | 150        |
| 060 ⇔ 067         | <b>C1050 - Lt Red</b>       | 255       | 037         | 027        | 030         | 038        |
| 068 ⇔ 075         | <b>C1080 - Md Red</b>       | 255       | 004         | 017        | 000         | 000        |
| 076 ⇔ 083         | <b>C1020 - NC Pink</b>      | 238       | 135         | 129        | 255         | 255        |
| 084 ⇔ 091         | <b>C1030 - Md Pink</b>      | 255       | 131         | 120        | 255         | 195        |
| 092 ⇔ 099         | <b>C1630 - Dk Pink</b>      | 255       | 165         | 123        | 255         | 210        |
| 100 ⇔ 107         | <b>C1250 - Md Red Amber</b> | 255       | 000         | 041        | 195         | 055        |
| 108 ⇔ 115         | <b>C1060 - Dk Red Amber</b> | 255       | 000         | 045        | 120         | 030        |
| 116 ⇔ 121         | <b>C1650 - Magenta</b>      | 255       | 050         | 115        | 255         | 115        |
| 122 ⇔ 130         | <b>C6170 - Dk Magenta</b>   | 255       | 035         | 117        | 000         | 000        |
| 131 ⇔ 138         | <b>C6020 - Lt Lavender</b>  | 127       | 122         | 142        | 251         | 255        |
| 139 ⇔ 146         | <b>C5030 - Lt Blue</b>      | 000       | 255         | 197        | 100         | 255        |
| 147 ⇔ 154         | <b>C5020 - VLt Blue</b>     | 158       | 255         | 189        | 000         | 255        |
| 155 ⇔ 162         | <b>C5430 - Lt Blue 2</b>    | 000       | 255         | 180        | 000         | 243        |
| 163 ⇔ 170         | <b>C5070 - Blue</b>         | 043       | 255         | 210        | 043         | 036        |
| 171 ⇔ 178         | <b>C5050 - Md Blue</b>      | 000       | 255         | 218        | 000         | 181        |
| 179 ⇔ 186         | <b>C5060 - Dk Blue</b>      | 000       | 210         | 206        | 000         | 118        |
| 187 ⇔ 194         | <b>C5690 - Indigo</b>       | 065       | 000         | 210        | 040         | 055        |
| 195 ⇔ 202         | <b>C5080 - VDk Blue</b>     | 000       | 203         | 230        | 000         | 040        |
| 203 ⇔ 210         | <b>C5081 - VDk Blue2</b>    | 040       | 199         | 240        | 000         | 045        |
| 211 ⇔ 218         | <b>C4370 - Yel Green</b>    | 027       | 255         | 028        | 016         | 104        |
| 219 ⇔ 226         | <b>C4070 - Green</b>        | 049       | 255         | 055        | 120         | 090        |
| 227 ⇔ 234         | <b>C4550 - Turquoise</b>    | 060       | 230         | 109        | 000         | 245        |
| 235 ⇔ 242         | <b>C4560 - Aqua</b>         | 020       | 240         | 126        | 036         | 255        |
| 243 ⇔ 250         | <b>C4570 - Blue Green</b>   | 000       | 255         | 079        | 030         | 053        |
| 251 ⇔ 255         | --                          | 000       | 000         | 000        | 000         | 000        |



**Note:** The colors above are simulated renditions of the color output produced compared with other similar incandescent products. Chauvet makes no guarantee of the color output accuracy.

**Color Temperature Chart**

| DMX Channel Value | Display Readout | Red Value | Green Value | Blue Value | Amber Value | Lime Value |
|-------------------|-----------------|-----------|-------------|------------|-------------|------------|
| 000 ⇔ 005         | --              | 000       | 000         | 000        | 000         | 000        |
| 006 ⇔ 025         | <b>2800K</b>    | 255       | 199         | 107        | 253         | 255        |
| 026 ⇔ 050         | <b>3000K</b>    | 220       | 128         | 050        | 255         | 255        |
| 051 ⇔ 075         | <b>3200K</b>    | 253       | 247         | 129        | 255         | 255        |
| 076 ⇔ 100         | <b>3500K</b>    | 234       | 255         | 141        | 253         | 255        |
| 101 ⇔ 125         | <b>4000K</b>    | 204       | 255         | 156        | 243         | 255        |
| 126 ⇔ 150         | <b>4500K</b>    | 181       | 248         | 166        | 224         | 255        |
| 151 ⇔ 175         | <b>5000K</b>    | 160       | 255         | 180        | 241         | 255        |
| 176 ⇔ 200         | <b>5600K</b>    | 138       | 255         | 191        | 241         | 255        |
| 201 ⇔ 225         | <b>6000K</b>    | 147       | 255         | 193        | 203         | 255        |
| 226 ⇔ 250         | <b>6500K</b>    | 142       | 251         | 197        | 187         | 255        |
| 251 ⇔ 255         | --              | 000       | 000         | 000        | 000         | 000        |



**Note:** The color temperatures above are simulated renditions of the color output produced compared with a tungsten lamp at the specified color temperature. Chauvet makes no guarantee of the color output accuracy.

DMX Values

HSV

| Channel | Function   | Value     | Percent/Setting |
|---------|------------|-----------|-----------------|
| 1       | Hue        | 000 ⇄ 255 | 0–100%          |
| 2       | Saturation | 000 ⇄ 255 | 0–100%          |
| 3       | Value      | 000 ⇄ 255 | 0–100%          |

16Ch

| Channel   | Function                        | Value                  | Percent/Setting                                    |
|-----------|---------------------------------|------------------------|--|
| 1         | Dimmer                          | 000 ⇄ 255              | 0–100%   |
| 2         | Dimmer fine                     | 000 ⇄ 255              | 0–100%   |
| 3         | Red                             | 000 ⇄ 255              | 0–100%   |
| 4         | Red fine                        | 000 ⇄ 255              | 0–100%   |
| 5         | Green                           | 000 ⇄ 255              | 0–100%   |
| 6         | Green fine                      | 000 ⇄ 255              | 0–100%   |
| 7         | Blue                            | 000 ⇄ 255              | 0–100%   |
| 8         | Blue fine                       | 000 ⇄ 255              | 0–100%   |
| 9         | Amber                           | 000 ⇄ 255              | 0–100%   |
| 10        | Amber fine                      | 000 ⇄ 255              | 0–100%   |
| 11        | Lime                            | 000 ⇄ 255              | 0–100%   |
| 12        | Lime fine                       | 000 ⇄ 255              | 0–100%   |
| 13        | Strobe                          | 000 ⇄ 010<br>011 ⇄ 255 | No function<br>Strobe, slow to fast                |
| 14        | Virtual color wheel             | 000 ⇄ 255              | Refer to <a href="#">Virtual Color Wheel Chart</a> |
| 15        | Color temperature               | 000 ⇄ 255              | Refer to <a href="#">Color Temperature Chart</a>   |
| 16        | Control<br>(hold for 3 seconds) | 000 ⇄ 007              | No function  |
|           |                                 | 008 ⇄ 015              | Dimmer reset                                       |
|           |                                 | 016 ⇄ 023              | Red shift on                                       |
|           |                                 | 024 ⇄ 031              | Red shift off                                      |
|           |                                 | 032 ⇄ 039              | S-curve dimmer                                     |
|           |                                 | 040 ⇄ 047              | Linear dimmer                                      |
|           |                                 | 048 ⇄ 055              | Square dimmer curve                                |
|           |                                 | 056 ⇄ 063              | Inverse square dimmer curve                        |
|           |                                 | 064 ⇄ 071              | Dimmer speed mode OFF                              |
|           |                                 | 072 ⇄ 079              | Dimmer speed 1 (fastest)                           |
|           |                                 | 080 ⇄ 087              | Dimmer speed 2                                     |
|           |                                 | 088 ⇄ 095              | Dimmer speed 3 (slowest)                           |
|           |                                 | 096 ⇄ 103              | Fan auto   |
| 104 ⇄ 111 | Fan on                          |                        |  |
| 112 ⇄ 119 | Fan off                         |                        |  |
| 120 ⇄ 127 | Fan silent                      |                        |  |
| 128 ⇄ 255 | Reserved for future use         |                        |  |

**13Ch**

| Channel | Function    | Value     | Percent/Setting      |
|---------|-------------|-----------|----------------------|
| 1       | Dimmer      | 000 ⇔ 255 | 0–100%               |
| 2       | Dimmer fine | 000 ⇔ 255 | 0–100%               |
| 3       | Red         | 000 ⇔ 255 | 0–100%               |
| 4       | Red fine    | 000 ⇔ 255 | 0–100%               |
| 5       | Green       | 000 ⇔ 255 | 0–100%               |
| 6       | Green fine  | 000 ⇔ 255 | 0–100%               |
| 7       | Blue        | 000 ⇔ 255 | 0–100%               |
| 8       | Blue fine   | 000 ⇔ 255 | 0–100%               |
| 9       | Amber       | 000 ⇔ 255 | 0–100%               |
| 10      | Amber fine  | 000 ⇔ 255 | 0–100%               |
| 11      | Lime        | 000 ⇔ 255 | 0–100%               |
| 12      | Lime fine   | 000 ⇔ 255 | 0–100%               |
| 13      | Strobe      | 000 ⇔ 010 | No function          |
|         |             | 011 ⇔ 255 | Strobe, slow to fast |

**12Ch**

| Channel   | Function                        | Value     | Percent/Setting                                    |
|-----------|---------------------------------|-----------|--|
| 1         | Dimmer                          | 000 ⇔ 255 | 0–100%   |
| 2         | Red                             | 000 ⇔ 255 | 0–100%   |
| 3         | Green                           | 000 ⇔ 255 | 0–100%   |
| 4         | Blue                            | 000 ⇔ 255 | 0–100%   |
| 5         | Amber                           | 000 ⇔ 255 | 0–100%   |
| 6         | Lime                            | 000 ⇔ 255 | 0–100%   |
| 7         | Strobe                          | 000 ⇔ 010 | No function  |
|           |                                 | 011 ⇔ 255 | Strobe, slow to fast                               |
| 8         | Virtual color wheel             | 000 ⇔ 255 | Refer to <a href="#">Virtual Color Wheel Chart</a> |
| 9         | Color temperature               | 000 ⇔ 255 | Refer to <a href="#">Color Temperature Chart</a>   |
| 10        | Auto programs                   | 000 ⇔ 010 | No function  |
|           |                                 | 011 ⇔ 060 | Auto program 1                                     |
|           |                                 | 061 ⇔ 110 | Auto program 2                                     |
|           |                                 | 111 ⇔ 160 | Auto program 3                                     |
|           |                                 | 161 ⇔ 210 | Auto program 4                                     |
|           |                                 | 211 ⇔ 255 | Auto program 5                                     |
| 11        | Auto speed                      | 000 ⇔ 255 | Auto speed, slow to fast                           |
| 12        | Control<br>(hold for 3 seconds) | 000 ⇔ 007 | No function  |
|           |                                 | 008 ⇔ 015 | Dimmer reset                                       |
|           |                                 | 016 ⇔ 023 | Red shift on                                       |
|           |                                 | 024 ⇔ 031 | Red shift off                                      |
|           |                                 | 032 ⇔ 039 | S-curve dimmer                                     |
|           |                                 | 040 ⇔ 047 | Linear dimmer                                      |
|           |                                 | 048 ⇔ 055 | Square dimmer curve                                |
|           |                                 | 056 ⇔ 063 | Inverse square dimmer curve                        |
|           |                                 | 064 ⇔ 071 | Dimmer speed mode OFF                              |
|           |                                 | 072 ⇔ 079 | Dimmer speed 1 (fastest)                           |
|           |                                 | 080 ⇔ 087 | Dimmer speed 2                                     |
|           |                                 | 088 ⇔ 095 | Dimmer speed 3 (slowest)                           |
|           |                                 | 096 ⇔ 103 | Fan auto   |
|           |                                 | 104 ⇔ 111 | Fan on   |
|           |                                 | 112 ⇔ 119 | Fan off  |
| 120 ⇔ 127 | Fan silent                      |           |  |
| 128 ⇔ 255 | Reserved for future use         |           |  |

10Ch

| Channel | Function            | Value                  | Percent/Setting                                    |
|---------|---------------------|------------------------|--|
| 1       | Dimmer              | 000 ⇄ 255              | 0–100%   |
| 2       | Dimmer fine         | 000 ⇄ 255              | 0–100%   |
| 3       | Red                 | 000 ⇄ 255              | 0–100%   |
| 4       | Green               | 000 ⇄ 255              | 0–100%   |
| 5       | Blue                | 000 ⇄ 255              | 0–100%   |
| 6       | Amber               | 000 ⇄ 255              | 0–100%   |
| 7       | Lime                | 000 ⇄ 255              | 0–100%   |
| 8       | Strobe              | 000 ⇄ 010<br>011 ⇄ 255 | No function<br>Strobe, slow to fast                |
| 9       | Virtual color wheel | 000 ⇄ 255              | Refer to <a href="#">Virtual Color Wheel Chart</a> |
| 10      | Color temperature   | 000 ⇄ 255              | Refer to <a href="#">Color Temperature Chart</a>   |

7Ch

| Channel | Function | Value                  | Percent/Setting                     |
|---------|----------|------------------------|-------------------------------------|
| 1       | Dimmer   | 000 ⇄ 255              | 0–100%                              |
| 2       | Red      | 000 ⇄ 255              | 0–100%                              |
| 3       | Green    | 000 ⇄ 255              | 0–100%                              |
| 4       | Blue     | 000 ⇄ 255              | 0–100%                              |
| 5       | Amber    | 000 ⇄ 255              | 0–100%                              |
| 6       | Lime     | 000 ⇄ 255              | 0–100%                              |
| 7       | Strobe   | 000 ⇄ 010<br>011 ⇄ 255 | No function<br>Strobe, slow to fast |

5Ch

| Channel | Function | Value     | Percent/Setting |
|---------|----------|-----------|-----------------|
| 1       | Red      | 000 ⇄ 255 | 0–100%          |
| 2       | Green    | 000 ⇄ 255 | 0–100%          |
| 3       | Blue     | 000 ⇄ 255 | 0–100%          |
| 4       | Amber    | 000 ⇄ 255 | 0–100%          |
| 5       | Lime     | 000 ⇄ 255 | 0–100%          |

3Ch

| Channel | Function            | Value     | Percent/Setting                                    |
|---------|---------------------|-----------|--|
| 1       | Dimmer              | 000 ⇄ 255 | 0–100%   |
| 2       | Virtual color wheel | 000 ⇄ 255 | Refer to <a href="#">Virtual Color Wheel Chart</a> |
| 3       | Color temperature   | 000 ⇄ 255 | Refer to <a href="#">Color Temperature Chart</a>   |