

American DJ Color Fusion

DMX control notes

The note in the manual that states “Channels 5 and 6 can only be used with channels 1,2,3 and 4” is erroneous. Channel 5 (Dimming) works with channels 1 thru 4 only if channel 7’s value is below 128. Channel 6 (Strobe/Speed) works both with channels 1 thru 4 and channel 7 depending on the mode selected by channel 7.

Normal Mode

1. At values below 128, the Mode channel (7) does not “Blackout”; rather it puts the fixture in “Normal Mode” (RGB control).
2. For normal DMX control of the three RGB color intensities on channels 1,2 & 3, the Color Mixing channel (4) must be below 8, the Mode channel (7) must be below 128 and the Strobe/Speed channel (6) should be below 16 value.
3. The Dimming channel (5) controls the overall intensity of the fixture (only in Normal Mode).
4. At values above 15, the Strobe/Speed channel (6) will cause the intensity to alternate between zero and the level set by Dimming channel. The speed of strobing increases as the DMX value of this channel is increased. At value 16 the strobe speed is about 2 flashes per second. The speed increases as the level increases up to 255.
5. The color mixing channel (4), at levels above 7, overrides the RGB channels (1,2,3) so that these 3 channels have no effect. The Dimming channel (5) still controls overall intensity.
6. The color mixing channel (4) selects a fixed color according to the following chart:

Color Mixing Channel Value	Color
0-7	Off
8-15	100% Red
16-23	100% Red + 10% Green
24-31	100% Red + 50% Green
32-39	100% Red + 75% Green
40-47	100% Red + 90% Green
48-55	100% Red + 100% Green
56-63	100% Green
64-71	100% Green + 10% Blue
72-79	100% Green + 50% Blue
80-87	100% Green + 75% Blue
88-95	100% Green + 90% Blue
96-103	100% Green + 100% Blue
104-111	100% Blue
112-119	100% Blue + 25% Red
120-127	100% Blue + 50% Red
128-135	100% Blue + 75% Red
136-143	100% Blue + 90% Red
144-151	100% Blue + 100% Red
152-159	100% Blue + 100% Red + 10% Green
160-167	100% Blue + 100% Red + 50% Green
168-175	100% Blue + 100% Red + 75% Green
176-183	100% Blue + 100% Red + 90% Green
184-191	100% Red + 100% Green + 10% Blue
192-199	100% Red + 100% Green + 50% Blue
200-207	100% Red + 100% Green + 75% Blue
208-215	100% Red + 100% Green + 90% Blue
216-223	100% Green + 100% Blue + 10% Red
224-231	100% Green + 100% Blue + 50% Red
232-239	100% Green + 100% Blue + 75% Red
240-247	100% Green + 100% Blue + 90% Red
248-255	White = 100% R G B

Automatic Modes

If the Mode channel (7) level is above 128, then the first 5 channels have no effect. Also the speed channel (6) will control the speed of the color chases, strobing and flutter effects selected by the Mode channel. “Rainbow Strobe” is a crossfading color chase. “Slow flutter” is a RGB strobe chase. “Fast Flutter” is a RedYelGrnCynBluMagWht strobe chase.