JB-Lighting

Sparx10



Manufacturer	**JB-Lighting**
Type	**Moving head**
DMX modes	**3**
DMX footprint	**24, 32, 44 channels**
Beam angle	**4-40°**
Pan range	**433.6°**
Tilt range	**333.3°**
Heads / cells	**3**
Size (W × H × D)	**300 × 160 × 300 mm**
GDTF fixture type	**1FB39B3D-A205-4223-AF91-4F…**

Controls

Zoom · Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Effect speed · Strobe · Dimmer · Pixel control · Pan and tilt · Movement speed

Safety-relevant functions

Fixture reset · Built-in effect programmes

DMX modes

Mode3 (24)	24 ch
Mode1 (32)	32 ch
Mode2 (44)	44 ch

Mode3 (24)

24 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Control1	0	0–7 100% led - fade out fast to slow 8–15 RGB adjust - fade out fast to slow 16–23 C1 adjust - fade out fast to slow 24–31 picker adjust - fade out fast to slow 32–39 100% led - fade out fast to slow 40–47 RGB adjust - fade out fast to slow 48–55 C1 adjust - fade out fast to slow 56–63 picker adjust - fade out fast to slow 64–71 100% led - fade out fast to slow 72–79 RGB adjust - fade out fast to slow 80–87 C1 adjust - fade out fast to slow 88–95 picker adjust - fade out fast to slow 96–103 100% led - fade out fast to slow 104–111 RGB adjust - fade out fast to slow 112–119 C1 adjust - fade out fast to slow 120–127 picker adjust - fade out fast to slow 128–135 100% led - fade out fast to slow 136–143 RGB adjust - fade out fast to slow 144–151 C1 adjust - fade out fast to slow 152–159 picker adjust - fade out fast to slow 160–207 not used (1) 208–215 50Hz (100Hz) 216–223 60Hz (120Hz) 224–231 flex (600Hz) 232–239 not used (2) 240–247 reset 248–255 not used (3)

Mode3 (24) (continued)

Ch	Function	Default	DMX values
6	Shutter / Strobe	16	0–15 closed 16–95 open 96–97 StrobePulseOpen · 20Hz 20–18.6 Hz 98–99 StrobePulseOpen · 15Hz 17.2–15.7 Hz 100–101 StrobePulseOpen · 10Hz 14.3–12.9 Hz 102–104 StrobePulseOpen · 5Hz 11.5–8.63 Hz 105–109 StrobePulseOpen · 1Hz 7.21–1.52 Hz 110–110 StrobePulseOpen · 1/10Hz 0.1 Hz 111–111 open (2) 112–124 Shutter Fade Effect strobe · fade effect slow 1–18.5… 125–125 Shutter Fade Effect strobe · fade effect fast 20 Hz 126–126 open (3) 127–127 closed (2) 128–141 pulse open fast 142–142 pulse open slow 143–143 open (4) 144–157 pulse close fast 158–158 pulse close slow 159–159 closed (3) 160–173 Shutter Fade close strobe · fade close fast 20–1.52 … 174–174 Shutter Fade close strobe · fade close slow 0.1 Hz 175–175 open (5) 176–189 fade open fast 190–190 fade open slow 191–191 closed (4) 192–205 rnd open fast 206–206 rnd open slow 207–207 open (6) 208–221 Shutter Rnd Close strobe · rnd close fast 20–1.52 Hz 222–222 Shutter Rnd Close strobe · rnd close slow 0.1 Hz 223–223 closed (5) 224–238 rnd pulse close fast 239–239 open (7) 240–254 rnd pulse open fast 255–255 open (8)
7	Dimmer	0	0–24 closed 25–50 10% 51–63 20% 64–75 25% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–190 70% 191–203 75% 204–229 80% 230–254 90% 255–255 open
8	Zoom	128	0–127 narrow 128–254 medium 255–255 wide

Mode3 (24) (continued)

Ch	Function	Default	DMX values
9	Effect	0	0–0 no segment 1–1 segment 01 2–2 segment 02 3–3 segment 03 4–4 segment 04 5–5 segment 05 6–6 segment 06 7–7 segment 07 8–8 segment 08 9–9 segment 09 10–10 segment 10 11–11 segment 11 12–12 segment 12 13–13 segment 13 14–14 segment 14 15–15 segment 15 16–16 segment 16 17–17 segment 17 18–18 segment 18 19–19 segment 19 20–20 segment 20 21–21 segment 21 22–22 segment 22 23–23 segment 23 24–24 segment 24 25–25 segment 25 26–26 segment 26 27–27 segment 27 28–28 segment 28 29–29 segment 29 30–30 segment 30 31–31 segment 31 32–32 segment 32 33–33 segment 33 34–34 segment 34 35–35 segment 35 36–36 segment 36 37–37 segment 37 38–38 segment 38 39–39 segment 39 40–40 segment 40 41–41 segment 41 42–42 segment 42 43–43 segment 43 44–44 segment 44 45–45 segment 45 46–46 segment 46 47–47 segment 47 48–48 segment 48 49–49 segment 49 50–50 segment 50 51–51 segment 51 52–52 segment 52 53–53 segment 53 54–54 segment 54 55–55 segment 55 56–56 segment 56 57–57 segment 57 58–58 segment 58 59–59 segment 59 60–60 segment 60 61–61 segment 61 62–62 segment 62 63–63 segment 63

Mode3 (24) (continued)

Ch	Function	Default	DMX values
10	Effects1Mode	0	
11	Effects1Cycle	0	0–0 no cycle pattern 1–1 cycle pattern 01 2–2 cycle pattern 02 3–3 cycle pattern 03 4–4 cycle pattern 04 5–5 cycle pattern 05 6–6 cycle pattern 06 7–7 cycle pattern 07 8–127 not used 128–128 rnd cycle pattern 01 129–129 rnd cycle pattern 02 130–130 rnd cycle pattern 03 131–131 rnd cycle pattern 04 132–132 rnd cycle pattern 05 133–133 rnd cycle pattern 06 134–134 rnd cycle pattern 07 135–255 not used
12	Effect Speed	0	0–126 forward fast to slow 127–128 stop 129–255 backward slow to fast
13	Color1Spread	0	0–0 no color spread 1–63 color spread index forward 64–94 color spread rate fast to slow 95–96 color spread stop 97–127 color spread rate slow to fast 128–191 color spread index backward 192–222 color spread rate fast to slow 223–224 stop 225–255 color spread rate slow to fast
14	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
15	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast

Mode3 (24) (continued)

Ch	Function	Default	DMX values
16	C TO	0	0–63 0% cto 64–127 25% cto 128–190 50% cto 191–254 75% cto 255–255 100% cto
17	Color Wheel	0	0–1 inactive colors rgb (wheel slot 1) 2–3 white adjust 6500K (wheel slot 1) 4–7 white / red (wheel slot 19) 8–11 red (wheel slot 2) 12–15 red / yellow (wheel slot 20) 16–19 yellow (wheel slot 3) 20–23 yellow / magenta (wheel slot 21) 24–27 magenta (wheel slot 4) 28–31 magenta / green (wheel slot 22) 32–35 green (wheel slot 5) 36–39 green / orange (wheel slot 23) 40–43 orange (wheel slot 6) 44–47 orange / blue (wheel slot 24) 48–51 blue (wheel slot 7) 52–55 blue / turquoise (wheel slot 25) 56–59 turquoise (wheel slot 8) 60–63 turquoise / white (wheel slot 26) 64–64 2700K (wheel slot 9) 65–65 2700K tungsten dimming (wheel slot 10) 66–66 3200K (wheel slot 11) 67–67 3200K tungsten dimming (wheel slot 12) 68–68 4200K (wheel slot 13) 69–69 5600K (wheel slot 14) 70–70 6500K (wheel slot 16) 71–191 8000K (wheel slot 18) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
18	Position MSpeed	0	0–3 real time movement 4–254 movement fast 255–255 movement slow
19	Global MSpeed	0	0–3 real time effects 4–254 effects fast 255–255 effects slow
20	Blackout Mode	0	0–0 not used (1_0) 1–70 segment selection for shutter 71–95 not used (1_1) 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at co rgbw slow 159–159 bo at co rgbw fast 160–223 not used (1_2) 224–254 bo at p/t co rgbw slow 255–255 bo at p/t co rgbw fast
21	Red	255	0–63 0% red 64–127 25% red 128–190 50% red 191–254 75% red 255–255 100% red
22	Green	255	0–63 0% green 64–127 25% green 128–190 50% green 191–254 75% green 255–255 100% green

Mode3 (24) (continued)

Ch	Function	Default	DMX values
23	Blue	255	0–63 0% blue 64–127 25% blue 128–190 50% blue 191–254 75% blue 255–255 100% blue
24	White	0	0–63 0% white 64–127 25% white 128–190 50% white 191–254 75% white 255–255 100% white

Mode1 (32)

32 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Control1	0	0–7 100% led - fade out fast to slow 8–15 RGB adjust - fade out fast to slow 16–23 C1 adjust - fade out fast to slow 24–31 picker adjust - fade out fast to slow 32–39 100% led - fade out fast to slow 40–47 RGB adjust - fade out fast to slow 48–55 C1 adjust - fade out fast to slow 56–63 picker adjust - fade out fast to slow 64–71 100% led - fade out fast to slow 72–79 RGB adjust - fade out fast to slow 80–87 C1 adjust - fade out fast to slow 88–95 picker adjust - fade out fast to slow 96–103 100% led - fade out fast to slow 104–111 RGB adjust - fade out fast to slow 112–119 C1 adjust - fade out fast to slow 120–127 picker adjust - fade out fast to slow 128–135 100% led - fade out fast to slow 136–143 RGB adjust - fade out fast to slow 144–151 C1 adjust - fade out fast to slow 152–159 picker adjust - fade out fast to slow 160–207 not used (1) 208–215 50Hz (100Hz) 216–223 60Hz (120Hz) 224–231 flex (600Hz) 232–239 not used (2) 240–247 reset 248–255 not used (3)

Mode1 (32) (continued)

Ch	Function	Default	DMX values
6	Shutter / Strobe	16	0–15 closed 16–95 open 96–97 StrobePulseOpen · 20Hz 20–18.6 Hz 98–99 StrobePulseOpen · 15Hz 17.2–15.7 Hz 100–101 StrobePulseOpen · 10Hz 14.3–12.9 Hz 102–104 StrobePulseOpen · 5Hz 11.5–8.63 Hz 105–109 StrobePulseOpen · 1Hz 7.21–1.52 Hz 110–110 StrobePulseOpen · 1/10Hz 0.1 Hz 111–111 open (2) 112–124 Shutter Fade Effect strobe · fade effect slow 1–18.5… 125–125 Shutter Fade Effect strobe · fade effect fast 20 Hz 126–126 open (3) 127–127 closed (2) 128–141 pulse open fast 142–142 pulse open slow 143–143 open (4) 144–157 pulse close fast 158–158 pulse close slow 159–159 closed (3) 160–173 Shutter Fade close strobe · fade close fast 20–1.52 … 174–174 Shutter Fade close strobe · fade close slow 0.1 Hz 175–175 open (5) 176–189 fade open fast 190–190 fade open slow 191–191 closed (4) 192–205 rnd open fast 206–206 rnd open slow 207–207 open (6) 208–221 Shutter Rnd Close strobe · rnd close fast 20–1.52 Hz 222–222 Shutter Rnd Close strobe · rnd close slow 0.1 Hz 223–223 closed (5) 224–238 rnd pulse close fast 239–239 open (7) 240–254 rnd pulse open fast 255–255 open (8)
7	Dimmer	0	0–24 closed 25–50 10% 51–63 20% 64–75 25% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–190 70% 191–203 75% 204–229 80% 230–254 90% 255–255 open
8	Zoom	128	0–127 narrow 128–254 medium 255–255 wide

Mode1 (32) (continued)

Ch	Function	Default	DMX values
9	Effect	0	0–0 no segment 1–1 segment 01 2–2 segment 02 3–3 segment 03 4–4 segment 04 5–5 segment 05 6–6 segment 06 7–7 segment 07 8–8 segment 08 9–9 segment 09 10–10 segment 10 11–11 segment 11 12–12 segment 12 13–13 segment 13 14–14 segment 14 15–15 segment 15 16–16 segment 16 17–17 segment 17 18–18 segment 18 19–19 segment 19 20–20 segment 20 21–21 segment 21 22–22 segment 22 23–23 segment 23 24–24 segment 24 25–25 segment 25 26–26 segment 26 27–27 segment 27 28–28 segment 28 29–29 segment 29 30–30 segment 30 31–31 segment 31 32–32 segment 32 33–33 segment 33 34–34 segment 34 35–35 segment 35 36–36 segment 36 37–37 segment 37 38–38 segment 38 39–39 segment 39 40–40 segment 40 41–41 segment 41 42–42 segment 42 43–43 segment 43 44–44 segment 44 45–45 segment 45 46–46 segment 46 47–47 segment 47 48–48 segment 48 49–49 segment 49 50–50 segment 50 51–51 segment 51 52–52 segment 52 53–53 segment 53 54–54 segment 54 55–55 segment 55 56–56 segment 56 57–57 segment 57 58–58 segment 58 59–59 segment 59 60–60 segment 60 61–61 segment 61 62–62 segment 62 63–63 segment 63

Mode1 (32) (continued)

Ch	Function	Default	DMX values
10	Effects1Mode	0	
11	Effects1Cycle	0	0–0 no cycle pattern 1–1 cycle pattern 01 2–2 cycle pattern 02 3–3 cycle pattern 03 4–4 cycle pattern 04 5–5 cycle pattern 05 6–6 cycle pattern 06 7–7 cycle pattern 07 8–127 not used 128–128 rnd cycle pattern 01 129–129 rnd cycle pattern 02 130–130 rnd cycle pattern 03 131–131 rnd cycle pattern 04 132–132 rnd cycle pattern 05 133–133 rnd cycle pattern 06 134–134 rnd cycle pattern 07 135–255 not used
12	Effect Speed	0	0–126 forward fast to slow 127–128 stop 129–255 backward slow to fast
13	Color1Spread	0	0–0 no color spread 1–63 color spread index forward 64–94 color spread rate fast to slow 95–96 color spread stop 97–127 color spread rate slow to fast 128–191 color spread index backward 192–222 color spread rate fast to slow 223–224 stop 225–255 color spread rate slow to fast
14	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
15	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast

Mode1 (32) (continued)

Ch	Function	Default	DMX values
16	C TO	0	0–63 0% cto 64–127 25% cto 128–190 50% cto 191–254 75% cto 255–255 100% cto
17	Color Wheel	0	0–1 inactive colors rgb (wheel slot 1) 2–3 white adjust 6500K (wheel slot 1) 4–7 white / red (wheel slot 19) 8–11 red (wheel slot 2) 12–15 red / yellow (wheel slot 20) 16–19 yellow (wheel slot 3) 20–23 yellow / magenta (wheel slot 21) 24–27 magenta (wheel slot 4) 28–31 magenta / green (wheel slot 22) 32–35 green (wheel slot 5) 36–39 green / orange (wheel slot 23) 40–43 orange (wheel slot 6) 44–47 orange / blue (wheel slot 24) 48–51 blue (wheel slot 7) 52–55 blue / turquoise (wheel slot 25) 56–59 turquoise (wheel slot 8) 60–63 turquoise / white (wheel slot 26) 64–64 2700K (wheel slot 9) 65–65 2700K tungsten dimming (wheel slot 10) 66–66 3200K (wheel slot 11) 67–67 3200K tungsten dimming (wheel slot 12) 68–68 4200K (wheel slot 13) 69–69 5600K (wheel slot 14) 70–70 6500K (wheel slot 16) 71–191 8000K (wheel slot 18) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
18	Position MSpeed	0	0–3 real time movement 4–254 movement fast 255–255 movement slow
19	Global MSpeed	0	0–3 real time effects 4–254 effects fast 255–255 effects slow
20	Blackout Mode	0	0–0 not used (1_0) 1–70 segment selection for shutter 71–95 not used (1_1) 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at co rgbw slow 159–159 bo at co rgbw fast 160–223 not used (1_2) 224–254 bo at p/t co rgbw slow 255–255 bo at p/t co rgbw fast
21	Red	255	0–63 0% red 64–127 25% red 128–190 50% red 191–254 75% red 255–255 100% red
22	Green	255	0–63 0% green 64–127 25% green 128–190 50% green 191–254 75% green 255–255 100% green

Mode1 (32) (continued)

Ch	Function	Default	DMX values
23	Blue	255	0–63 0% blue 64–127 25% blue 128–190 50% blue 191–254 75% blue 255–255 100% blue
24	White	0	0–63 0% white 64–127 25% white 128–190 50% white 191–254 75% white 255–255 100% white
25	Red	255	0–63 0% red 64–127 25% red 128–190 50% red 191–254 75% red 255–255 100% red
26	Green	255	0–63 0% green 64–127 25% green 128–190 50% green 191–254 75% green 255–255 100% green
27	Blue	255	0–63 0% blue 64–127 25% blue 128–190 50% blue 191–254 75% blue 255–255 100% blue
28	White	0	0–63 0% white 64–127 25% white 128–190 50% white 191–254 75% white 255–255 100% white
29	Red	255	0–63 0% red 64–127 25% red 128–190 50% red 191–254 75% red 255–255 100% red
30	Green	255	0–63 0% green 64–127 25% green 128–190 50% green 191–254 75% green 255–255 100% green
31	Blue	255	0–63 0% blue 64–127 25% blue 128–190 50% blue 191–254 75% blue 255–255 100% blue
32	White	0	0–63 0% white 64–127 25% white 128–190 50% white 191–254 75% white 255–255 100% white

Mode2 (44)

44 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	

Mode2 (44) (continued)

Ch	Function	Default	DMX values
4	Tilt Fine	0	Fine byte of Tilt
5	Control1	0	0–7 100% led - fade out fast to slow 8–15 RGB adjust - fade out fast to slow 16–23 C1 adjust - fade out fast to slow 24–31 picker adjust - fade out fast to slow 32–39 100% led - fade out fast to slow 40–47 RGB adjust - fade out fast to slow 48–55 C1 adjust - fade out fast to slow 56–63 picker adjust - fade out fast to slow 64–71 100% led - fade out fast to slow 72–79 RGB adjust - fade out fast to slow 80–87 C1 adjust - fade out fast to slow 88–95 picker adjust - fade out fast to slow 96–103 100% led - fade out fast to slow 104–111 RGB adjust - fade out fast to slow 112–119 C1 adjust - fade out fast to slow 120–127 picker adjust - fade out fast to slow 128–135 100% led - fade out fast to slow 136–143 RGB adjust - fade out fast to slow 144–151 C1 adjust - fade out fast to slow 152–159 picker adjust - fade out fast to slow 160–207 not used (1) 208–215 50Hz (100Hz) 216–223 60Hz (120Hz) 224–231 flex (600Hz) 232–239 not used (2) 240–247 reset 248–255 not used (3)

Mode2 (44) (continued)

Ch	Function	Default	DMX values
6	Shutter / Strobe	16	0–15 closed 16–95 open 96–97 StrobePulseOpen · 20Hz 20–18.6 Hz 98–99 StrobePulseOpen · 15Hz 17.2–15.7 Hz 100–101 StrobePulseOpen · 10Hz 14.3–12.9 Hz 102–104 StrobePulseOpen · 5Hz 11.5–8.63 Hz 105–109 StrobePulseOpen · 1Hz 7.21–1.52 Hz 110–110 StrobePulseOpen · 1/10Hz 0.1 Hz 111–111 open (2) 112–124 Shutter Fade Effect strobe · fade effect slow 1–18.5… 125–125 Shutter Fade Effect strobe · fade effect fast 20 Hz 126–126 open (3) 127–127 closed (2) 128–141 pulse open fast 142–142 pulse open slow 143–143 open (4) 144–157 pulse close fast 158–158 pulse close slow 159–159 closed (3) 160–173 Shutter Fade close strobe · fade close fast 20–1.52 … 174–174 Shutter Fade close strobe · fade close slow 0.1 Hz 175–175 open (5) 176–189 fade open fast 190–190 fade open slow 191–191 closed (4) 192–205 rnd open fast 206–206 rnd open slow 207–207 open (6) 208–221 Shutter Rnd Close strobe · rnd close fast 20–1.52 Hz 222–222 Shutter Rnd Close strobe · rnd close slow 0.1 Hz 223–223 closed (5) 224–238 rnd pulse close fast 239–239 open (7) 240–254 rnd pulse open fast 255–255 open (8)
7	Dimmer	0	0–24 closed 25–50 10% 51–63 20% 64–75 25% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–190 70% 191–203 75% 204–229 80% 230–254 90% 255–255 open
8	Zoom	128	0–127 narrow 128–254 medium 255–255 wide

Mode2 (44) (continued)

Ch	Function	Default	DMX values
9	Effect	0	0–0 no segment 1–1 segment 01 2–2 segment 02 3–3 segment 03 4–4 segment 04 5–5 segment 05 6–6 segment 06 7–7 segment 07 8–8 segment 08 9–9 segment 09 10–10 segment 10 11–11 segment 11 12–12 segment 12 13–13 segment 13 14–14 segment 14 15–15 segment 15 16–16 segment 16 17–17 segment 17 18–18 segment 18 19–19 segment 19 20–20 segment 20 21–21 segment 21 22–22 segment 22 23–23 segment 23 24–24 segment 24 25–25 segment 25 26–26 segment 26 27–27 segment 27 28–28 segment 28 29–29 segment 29 30–30 segment 30 31–31 segment 31 32–32 segment 32 33–33 segment 33 34–34 segment 34 35–35 segment 35 36–36 segment 36 37–37 segment 37 38–38 segment 38 39–39 segment 39 40–40 segment 40 41–41 segment 41 42–42 segment 42 43–43 segment 43 44–44 segment 44 45–45 segment 45 46–46 segment 46 47–47 segment 47 48–48 segment 48 49–49 segment 49 50–50 segment 50 51–51 segment 51 52–52 segment 52 53–53 segment 53 54–54 segment 54 55–55 segment 55 56–56 segment 56 57–57 segment 57 58–58 segment 58 59–59 segment 59 60–60 segment 60 61–61 segment 61 62–62 segment 62 63–63 segment 63

Mode2 (44) (continued)

Ch	Function	Default	DMX values
10	Effects1Mode	0	
11	Effects1Cycle	0	0–0 no cycle pattern 1–1 cycle pattern 01 2–2 cycle pattern 02 3–3 cycle pattern 03 4–4 cycle pattern 04 5–5 cycle pattern 05 6–6 cycle pattern 06 7–7 cycle pattern 07 8–127 not used 128–128 rnd cycle pattern 01 129–129 rnd cycle pattern 02 130–130 rnd cycle pattern 03 131–131 rnd cycle pattern 04 132–132 rnd cycle pattern 05 133–133 rnd cycle pattern 06 134–134 rnd cycle pattern 07 135–255 not used
12	Effect Speed	0	0–126 forward fast to slow 127–128 stop 129–255 backward slow to fast
13	Color1Spread	0	0–0 no color spread 1–63 color spread index forward 64–94 color spread rate fast to slow 95–96 color spread stop 97–127 color spread rate slow to fast 128–191 color spread index backward 192–222 color spread rate fast to slow 223–224 stop 225–255 color spread rate slow to fast
14	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
15	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast

Mode2 (44) (continued)

Ch	Function	Default	DMX values
16	C TO	0	0–63 0% cto 64–127 25% cto 128–190 50% cto 191–254 75% cto 255–255 100% cto
17	Color Wheel	0	0–1 inactive colors rgb (wheel slot 1) 2–3 white adjust 6500K (wheel slot 1) 4–7 white / red (wheel slot 19) 8–11 red (wheel slot 2) 12–15 red / yellow (wheel slot 20) 16–19 yellow (wheel slot 3) 20–23 yellow / magenta (wheel slot 21) 24–27 magenta (wheel slot 4) 28–31 magenta / green (wheel slot 22) 32–35 green (wheel slot 5) 36–39 green / orange (wheel slot 23) 40–43 orange (wheel slot 6) 44–47 orange / blue (wheel slot 24) 48–51 blue (wheel slot 7) 52–55 blue / turquoise (wheel slot 25) 56–59 turquoise (wheel slot 8) 60–63 turquoise / white (wheel slot 26) 64–64 2700K (wheel slot 9) 65–65 2700K tungsten dimming (wheel slot 10) 66–66 3200K (wheel slot 11) 67–67 3200K tungsten dimming (wheel slot 12) 68–68 4200K (wheel slot 13) 69–69 5600K (wheel slot 14) 70–70 6500K (wheel slot 16) 71–191 8000K (wheel slot 18) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
18	Position MSpeed	0	0–3 real time movement 4–254 movement fast 255–255 movement slow
19	Global MSpeed	0	0–3 real time effects 4–254 effects fast 255–255 effects slow
20	Blackout Mode	0	0–0 not used (1_0) 1–70 segment selection for shutter 71–95 not used (1_1) 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at co rgbw slow 159–159 bo at co rgbw fast 160–223 not used (1_2) 224–254 bo at p/t co rgbw slow 255–255 bo at p/t co rgbw fast
21	Red	255	0–63 0% red 64–127 25% red 128–191 50% red 192–254 75% red 255–255 100% red
22	Red Fine	255	Fine byte of Red

Mode2 (44) (continued)

Ch	Function	Default	DMX values
23	Green	255	0–63 0% green 64–127 25% green 128–191 50% green 192–254 75% green 255–255 100% green
24	Green Fine	255	Fine byte of Green
25	Blue	255	0–63 0% blue 64–127 25% blue 128–191 50% blue 192–254 75% blue 255–255 100% blue
26	Blue Fine	255	Fine byte of Blue
27	White	0	0–63 0% white 64–127 25% white 128–191 50% white 192–254 75% white 255–255 100% white
28	White Fine	0	Fine byte of White
29	Red	255	0–63 0% red 64–127 25% red 128–191 50% red 192–254 75% red 255–255 100% red
30	Red Fine	255	Fine byte of Red
31	Green	255	0–63 0% green 64–127 25% green 128–191 50% green 192–254 75% green 255–255 100% green
32	Green Fine	255	Fine byte of Green
33	Blue	255	0–63 0% blue 64–127 25% blue 128–191 50% blue 192–254 75% blue 255–255 100% blue
34	Blue Fine	255	Fine byte of Blue
35	White	0	0–63 0% white 64–127 25% white 128–191 50% white 192–254 75% white 255–255 100% white
36	White Fine	0	Fine byte of White
37	Red	255	0–63 0% red 64–127 25% red 128–191 50% red 192–254 75% red 255–255 100% red
38	Red Fine	255	Fine byte of Red
39	Green	255	0–63 0% green 64–127 25% green 128–187 50% green 188–254 75% green 255–255 100% green
40	Green Fine	255	Fine byte of Green

Mode2 (44) (continued)

Ch	Function	Default	DMX values
41	Blue	255	0–63 0% blue 64–127 25% blue 128–191 50% blue 192–254 75% blue 255–255 100% blue
42	Blue Fine	255	Fine byte of Blue
43	White	0	0–63 0% white 64–127 25% white 128–191 50% white 192–254 75% white 255–255 100% white
44	White Fine	0	Fine byte of White