JB-Lighting

Sparx12 EXT



Manufacturer	**JB-Lighting**
Type	**Moving head**
DMX modes	**6**
DMX footprint	**24, 35, 50, 101, 112, 127 channels**
Beam angle	**3.2-55°**
Pan range	**540.73°**
Tilt range	**323.79°**
Heads / cells	**21**
Size (W × H × D)	**310 × 248 × 310 mm**
GDTF fixture type	**EE78378C-4B65-442C-9DA4-C6…**

Controls

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

Safety-relevant functions

Built-in effect programmes

DMX modes

Mode3 tint channel (24)	24 ch
Mode1 tint channel (35)	35 ch
Mode2 tint channel (50)	50 ch
Mode3 tint channel single pixel (101)	101 ch
Mode1 tint channel single pixel (112)	112 ch
Mode2 tint channel single pixel (127)	127 ch

Mode3 tint channel (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	
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
9	Zoom	0	0–127 narrow 128–254 medium 255–255 wide

Mode3 tint channel (24) (continued)

Ch	Function	Default	DMX values
10	Zoom	0	0–127 narrow 128–254 medium 255–255 wide
11	Beam Shaper Pos	0	0–47 0 48–95 90 96–142 180 143–190 270 191–191 360 192–192 >>> 193–222 rotate 100__1% 223–224 Stop 225–254 rotate -1__-100% 255–255 <<<
12	C TO	0	0–63 0% cto 64–127 25% cto 128–190 50% cto 191–254 75% cto 255–255 100% cto
13	Color Wheel	0	0–0 inactive colors rgb (wheel slot 1) 1–3 white (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 6000K (wheel slot 15) 71–71 6500K (wheel slot 16) 72–72 7000K (wheel slot 17) 73–191 8000K (wheel slot 18) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
14	Red	255	0–63 0% red 64–127 25% red 128–190 50% red 191–254 75% red 255–255 100% red
15	Green	255	0–63 0% green 64–127 25% green 128–190 50% green 191–254 75% green 255–255 100% green

Mode3 tint channel (24) (continued)

Ch	Function	Default	DMX values
16	Blue	255	0–63 0% blue 64–127 25% blue 128–190 50% blue 191–254 75% blue 255–255 100% blue
17	White	0	0–63 0% white 64–127 25% white 128–190 50% white 191–254 75% white 255–255 100% white
18	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
19	Sparkle Speed	0	0–0 sparkle faded slow 1–14 sparkle faded 1__99% 15–15 sparkle faded fast 16–16 sparkle switched slow 17–30 sparkle switched 1__99% 31–31 sparkle switched fast 32–32 sparkle faded slow 33–46 sparkle faded 1__99% 47–47 sparkle faded fast 48–48 sparkle switched slow 49–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–78 sparkle faded 1__99% 79–79 sparkle faded fast 80–80 sparkle switched slow 81–94 sparkle switched 1__99% 95–95 sparkle switched fast 96–96 sparkle faded slow 97–110 sparkle faded 1__99% 111–111 sparkle faded fast 112–112 sparkle switched slow 113–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–142 sparkle faded 1__99% 143–143 sparkle faded fast 144–144 sparkle switched slow 145–158 sparkle switched 1__99% 159–159 sparkle switched fast 160–160 sparkle faded slow 161–174 sparkle faded 1__99% 175–175 sparkle faded fast 176–176 sparkle switched slow 177–190 sparkle switched 1__99% 191–255 sparkle switched fast
20	Effects1Mode	0	

Mode3 tint channel (24) (continued)

Ch	Function	Default	DMX values
21	Effect	0	0–0 no macro 1–1 2 color complete shutter 2–2 2 color inner shutter 3–3 2 color outer shutter 4–4 2 color no shutter 5–5 2 color complete shutter 6–6 2 color inner shutter 7–7 2 color outer shutter 8–8 2 color no shutter 9–10 2 color complete shutter 11–11 1 12–12 2 13–13 3 14–14 4 15–15 5 16–16 6 17–17 7 18–18 8 19–19 9 20–20 0 21–21 1 22–22 2 23–23 3 24–24 4 25–25 5 26–26 6 27–27 7 28–28 8 29–29 9 30–30 smily small 31–31 smily big 32–32 smily small upside down 33–33 smiley big upside down 34–34 pattern beam 1 35–35 pattern beam 2 36–36 pattern beam 3 37–37 pattern beam 4 38–38 pattern beam 5 39–39 pattern beam 6 40–40 pattern beam 7 41–41 pattern beam 8 42–42 pattern beam 9 43–43 pattern beam 10 44–44 pattern beam 11 45–45 pattern beam 12 46–46 pattern beam 13 47–47 pattern beam 14 48–48 pattern beam 15 49–49 pattern beam 16 50–50 pattern beam 17 51–51 pattern beam 18 52–52 pattern beam 19 53–54 no pattern beam 55–59 circles 60–79 cake slices 80–86 lines horizontal 87–93 lines vertical 94–100 lines diagonal 1 101–107 lines diagonal 2 108–114 circle lines 115–122 half beam 123–129 dots 130–130 color spread circles 131–132 color spread cake slices

Mode3 tint channel (24) (continued)

Ch	Function	Default	DMX values
22	Effect Speed	0	0–0 >>> 1–126 forward 100__1% 127–128 stop 129–254 backward -1__-100% 255–255 <<<
23	Transition	0	0–24 0% 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% 255–255 100%
24	Tint	0	0–0 off 1–127 minus green -100% __ -1% 128–128 no shift 129–255 plus green +1% __ +100%

Mode1 tint channel (35)

35 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	

Mode1 tint channel (35) (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
9	Zoom	0	0–127 narrow 128–254 medium 255–255 wide
10	Zoom	0	0–127 narrow 128–254 medium 255–255 wide

Mode1 tint channel (35) (continued)

Ch	Function	Default	DMX values
11	Beam Shaper Pos	0	0–47 0 48–95 90 96–142 180 143–190 270 191–191 360 192–192 >>> 193–222 rotate 100__1% 223–224 Stop 225–254 rotate -1__-100% 255–255 <<<
12	C TO	0	0–63 0% cto 64–127 25% cto 128–190 50% cto 191–254 75% cto 255–255 100% cto
13	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
14	Effects Sync	0	0–24 0% 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% 255–255 100%
15	Dimmer	255	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

Mode1 tint channel (35) (continued)

Ch	Function	Default	DMX values
16	Dimmer	255	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
17	Color Wheel	0	0–0 inactive colors rgb (wheel slot 1) 1–3 white (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 6000K (wheel slot 15) 71–71 6500K (wheel slot 16) 72–72 7000K (wheel slot 17) 73–191 8000K (wheel slot 18) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
18	Red	255	0–63 0% red 64–127 25% red 128–190 50% red 191–254 75% red 255–255 100% red
19	Green	255	0–63 0% green 64–127 25% green 128–190 50% green 191–254 75% green 255–255 100% green
20	Blue	255	0–63 0% blue 64–127 25% blue 128–190 50% blue 191–254 75% blue 255–255 100% blue

Mode1 tint channel (35) (continued)

Ch	Function	Default	DMX values
21	White	0	0–63 0% white 64–127 25% white 128–190 50% white 191–254 75% white 255–255 100% white
22	Red	0	0–63 0% red 64–127 25% red 128–190 50% red 191–254 75% red 255–255 100% red
23	Green	0	0–63 0% green 64–127 25% green 128–190 50% green 191–254 75% green 255–255 100% green
24	Blue	0	0–63 0% blue 64–127 25% blue 128–190 50% blue 191–254 75% blue 255–255 100% blue
25	White	0	0–63 0% white 64–127 25% white 128–190 50% white 191–254 75% white 255–255 100% white
26	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle

Mode1 tint channel (35) (continued)

Ch	Function	Default	DMX values
27	Sparkle Speed	0	0–0 sparkle faded slow 1–14 sparkle faded 1__99% 15–15 sparkle faded fast 16–16 sparkle switched slow 17–30 sparkle switched 1__99% 31–31 sparkle switched fast 32–32 sparkle faded slow 33–46 sparkle faded 1__99% 47–47 sparkle faded fast 48–48 sparkle switched slow 49–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–78 sparkle faded 1__99% 79–79 sparkle faded fast 80–80 sparkle switched slow 81–94 sparkle switched 1__99% 95–95 sparkle switched fast 96–96 sparkle faded slow 97–110 sparkle faded 1__99% 111–111 sparkle faded fast 112–112 sparkle switched slow 113–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–142 sparkle faded 1__99% 143–143 sparkle faded fast 144–144 sparkle switched slow 145–158 sparkle switched 1__99% 159–159 sparkle switched fast 160–160 sparkle faded slow 161–174 sparkle faded 1__99% 175–175 sparkle faded fast 176–176 sparkle switched slow 177–190 sparkle switched 1__99% 191–255 sparkle switched fast
28	Effects1Mode	0	

Mode1 tint channel (35) (continued)

Ch	Function	Default	DMX values
29	Effect	0	0–0 no macro 1–1 2 color complete shutter 2–2 2 color inner shutter 3–3 2 color outer shutter 4–4 2 color no shutter 5–5 2 color complete shutter 6–6 2 color inner shutter 7–7 2 color outer shutter 8–8 2 color no shutter 9–10 2 color complete shutter 11–11 1 12–12 2 13–13 3 14–14 4 15–15 5 16–16 6 17–17 7 18–18 8 19–19 9 20–20 0 21–21 1 22–22 2 23–23 3 24–24 4 25–25 5 26–26 6 27–27 7 28–28 8 29–29 9 30–30 smily small 31–31 smily big 32–32 smily small upside down 33–33 smiley big upside down 34–34 pattern beam 1 35–35 pattern beam 2 36–36 pattern beam 3 37–37 pattern beam 4 38–38 pattern beam 5 39–39 pattern beam 6 40–40 pattern beam 7 41–41 pattern beam 8 42–42 pattern beam 9 43–43 pattern beam 10 44–44 pattern beam 11 45–45 pattern beam 12 46–46 pattern beam 13 47–47 pattern beam 14 48–48 pattern beam 15 49–49 pattern beam 16 50–50 pattern beam 17 51–51 pattern beam 18 52–52 pattern beam 19 53–54 no pattern beam 55–59 circles 60–79 cake slices 80–86 lines horizontal 87–93 lines vertical 94–100 lines diagonal 1 101–107 lines diagonal 2 108–114 circle lines 115–122 half beam 123–129 dots 130–130 color spread circles 131–132 color spread cake slices

Mode1 tint channel (35) (continued)

Ch	Function	Default	DMX values
30	Effect Speed	0	0–0 >>> 1–126 forward 100__1% 127–128 stop 129–254 backward -1__-100% 255–255 <<<
31	Effects2Mode	0	

Mode1 tint channel (35) (continued)

Ch	Function	Default	DMX values
32	Effect 2	0	0–0 no macro 1–1 2 color complete shutter 2–2 2 color inner shutter 3–3 2 color outer shutter 4–4 2 color no shutter 5–5 2 color complete shutter 6–6 2 color inner shutter 7–7 2 color outer shutter 8–8 2 color no shutter 9–10 2 color complete shutter 11–11 1 12–12 2 13–13 3 14–14 4 15–15 5 16–16 6 17–17 7 18–18 8 19–19 9 20–20 0 21–21 1 22–22 2 23–23 3 24–24 4 25–25 5 26–26 6 27–27 7 28–28 8 29–29 9 30–30 smily small 31–31 smily big 32–32 smily small upside down 33–33 smiley big upside down 34–34 pattern beam 1 35–35 pattern beam 2 36–36 pattern beam 3 37–37 pattern beam 4 38–38 pattern beam 5 39–39 pattern beam 6 40–40 pattern beam 7 41–41 pattern beam 8 42–42 pattern beam 9 43–52 pattern beam 10 53–54 no pattern beam 55–59 circles 60–79 cake slices 80–86 lines horizontal 87–93 lines vertical 94–100 lines diagonal 1 101–107 lines diagonal 2 108–114 circle lines 115–122 half beam 123–129 dots 130–130 color spread circles 131–132 color spread cake slices 133–137 color spread lines 138–138 dots 139–145 circles 146–165 cake slices 166–172 lines horizontal 173–179 lines vertical 180–186 lines diagonal 1 187–193 lines diagonal 2 194–200 circle lines

Mode1 tint channel (35) (continued)

Ch	Function	Default	DMX values
33	Effect Speed 2	0	0–0 >>> 1–126 forward 100__1% 127–128 stop 129–254 backward -1__-100% 255–255 <<<
34	Transition	0	0–24 0% 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% 255–255 100%
35	Tint	0	0–0 off 1–127 minus green -100% __ -1% 128–128 no shift 129–255 plus green +1% __ +100%

Mode2 tint channel (50)

50 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	

Mode2 tint channel (50) (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	Dimmer Fine	0	Fine byte of Dimmer
9	Zoom	128	0–127 narrow 128–254 medium 255–255 wide
10	Zoom	0	0–127 narrow 128–254 medium 255–255 wide
11	Zoom	0	0–127 narrow 128–254 medium 255–255 wide

Mode2 tint channel (50) (continued)

Ch	Function	Default	DMX values
12	Beam Shaper Pos	0	0–47 0 48–94 90 95–142 180 143–190 270 191–191 360 192–192 >>> 193–222 rotate 100__1% 223–224 Stop 225–254 rotate -1__-100% 255–255 <<<
13	Beam Shaper Pos Fine	0	Fine byte of Beam Shaper Pos
14	C TO	0	0–63 0% cto 64–127 25% cto 128–190 50% cto 191–254 75% cto 255–255 100% cto
15	C TO Fine	0	Fine byte of C TO
16	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
17	Effects Sync	0	0–24 0% 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% 255–255 100%
18	Effects Sync Fine	0	Fine byte of Effects Sync
19	Dimmer	255	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
20	Dimmer Fine	255	Fine byte of Dimmer

Mode2 tint channel (50) (continued)

Ch	Function	Default	DMX values
21	Dimmer	255	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
22	Dimmer Fine	255	Fine byte of Dimmer
23	Color Wheel	0	0–0 inactive colors rgb (wheel slot 1) 1–3 white (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 6000K (wheel slot 15) 71–71 6500K (wheel slot 16) 72–72 7000K (wheel slot 17) 73–191 8000K (wheel slot 18) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
24	Red	255	0–63 0% red 64–127 25% red 128–191 50% red 192–254 75% red 255–255 100% red
25	Red Fine	255	Fine byte of Red
26	Green	255	0–63 0% green 64–127 25% green 128–191 50% green 192–254 75% green 255–255 100% green
27	Green Fine	255	Fine byte of Green

Mode2 tint channel (50) (continued)

Ch	Function	Default	DMX values
28	Blue	255	0–63 0% blue 64–127 25% blue 128–191 50% blue 192–254 75% blue 255–255 100% blue
29	Blue Fine	255	Fine byte of Blue
30	White	0	0–63 0% white 64–127 25% white 128–191 50% white 192–254 75% white 255–255 100% white
31	White Fine	0	Fine byte of White
32	Red	0	0–63 0% red 64–127 25% red 128–191 50% red 192–254 75% red 255–255 100% red
33	Red Fine	0	Fine byte of Red
34	Green	0	0–63 0% green 64–127 25% green 128–191 50% green 192–254 75% green 255–255 100% green
35	Green Fine	0	Fine byte of Green
36	Blue	0	0–63 0% blue 64–127 25% blue 128–191 50% blue 192–254 75% blue 255–255 100% blue
37	Blue Fine	0	Fine byte of Blue
38	White	0	0–63 0% white 64–127 25% white 128–191 50% white 192–254 75% white 255–255 100% white
39	White Fine	0	Fine byte of White
40	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle

Mode2 tint channel (50) (continued)

Ch	Function	Default	DMX values
41	Sparkle Speed	0	0–0 sparkle faded slow 1–14 sparkle faded 1__99% 15–15 sparkle faded fast 16–16 sparkle switched slow 17–30 sparkle switched 1__99% 31–31 sparkle switched fast 32–32 sparkle faded slow 33–46 sparkle faded 1__99% 47–47 sparkle faded fast 48–48 sparkle switched slow 49–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–78 sparkle faded 1__99% 79–79 sparkle faded fast 80–80 sparkle switched slow 81–94 sparkle switched 1__99% 95–95 sparkle switched fast 96–96 sparkle faded slow 97–110 sparkle faded 1__99% 111–111 sparkle faded fast 112–112 sparkle switched slow 113–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–142 sparkle faded 1__99% 143–143 sparkle faded fast 144–144 sparkle switched slow 145–158 sparkle switched 1__99% 159–159 sparkle switched fast 160–160 sparkle faded slow 161–174 sparkle faded 1__99% 175–175 sparkle faded fast 176–176 sparkle switched slow 177–190 sparkle switched 1__99% 191–255 sparkle switched fast
42	Effects1Mode	0	

Mode2 tint channel (50) (continued)

Ch	Function	Default	DMX values
43	Effect	0	0–0 no macro 1–1 2 color complete shutter 2–2 2 color inner shutter 3–3 2 color outer shutter 4–4 2 color no shutter 5–5 2 color complete shutter 6–6 2 color inner shutter 7–7 2 color outer shutter 8–8 2 color no shutter 9–10 2 color complete shutter 11–11 1 12–12 2 13–13 3 14–14 4 15–15 5 16–16 6 17–17 7 18–18 8 19–19 9 20–20 0 21–21 1 22–22 2 23–23 3 24–24 4 25–25 5 26–26 6 27–27 7 28–28 8 29–29 9 30–30 smily small 31–31 smily big 32–32 smily small upside down 33–33 smiley big upside down 34–34 pattern beam 1 35–35 pattern beam 2 36–36 pattern beam 3 37–37 pattern beam 4 38–38 pattern beam 5 39–39 pattern beam 6 40–40 pattern beam 7 41–41 pattern beam 8 42–42 pattern beam 9 43–43 pattern beam 10 44–44 pattern beam 11 45–45 pattern beam 12 46–46 pattern beam 13 47–47 pattern beam 14 48–48 pattern beam 15 49–49 pattern beam 16 50–50 pattern beam 17 51–51 pattern beam 18 52–52 pattern beam 19 53–54 no pattern beam 55–59 circles 60–79 cake slices 80–86 lines horizontal 87–93 lines vertical 94–100 lines diagonal 1 101–107 lines diagonal 2 108–114 circle lines 115–122 half beam 123–129 dots 130–130 color spread circles 131–132 color spread cake slices

Mode2 tint channel (50) (continued)

Ch	Function	Default	DMX values
44	Effect Speed	0	0–0 >>> 1–126 forward 100__1% 127–128 stop 129–254 backward -1__-100% 255–255 <<<
45	Effects2Mode	0	

Mode2 tint channel (50) (continued)

Ch	Function	Default	DMX values
46	Effect 2	0	0–0 no macro 1–1 2 color complete shutter 2–2 2 color inner shutter 3–3 2 color outer shutter 4–4 2 color no shutter 5–5 2 color complete shutter 6–6 2 color inner shutter 7–7 2 color outer shutter 8–8 2 color no shutter 9–10 2 color complete shutter 11–11 1 12–12 2 13–13 3 14–14 4 15–15 5 16–16 6 17–17 7 18–18 8 19–19 9 20–20 0 21–21 1 22–22 2 23–23 3 24–24 4 25–25 5 26–26 6 27–27 7 28–28 8 29–29 9 30–30 smily small 31–31 smily big 32–32 smily small upside down 33–33 smiley big upside down 34–34 pattern beam 1 35–35 pattern beam 2 36–36 pattern beam 3 37–37 pattern beam 4 38–38 pattern beam 5 39–39 pattern beam 6 40–40 pattern beam 7 41–41 pattern beam 8 42–42 pattern beam 9 43–52 pattern beam 10 53–54 no pattern beam 55–59 circles 60–79 cake slices 80–86 lines horizontal 87–93 lines vertical 94–100 lines diagonal 1 101–107 lines diagonal 2 108–114 circle lines 115–122 half beam 123–129 dots 130–130 color spread circles 131–132 color spread cake slices 133–137 color spread lines 138–138 dots 139–145 circles 146–165 cake slices 166–172 lines horizontal 173–179 lines vertical 180–186 lines diagonal 1 187–193 lines diagonal 2 194–200 circle lines

Mode2 tint channel (50) (continued)

Ch	Function	Default	DMX values
47	Effect Speed 2	0	0–0 >>> 1–126 forward 100__1% 127–128 stop 129–254 backward -1__-100% 255–255 <<<
48	Transition	0	0–24 0% 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% 255–255 100%
49	Transition Fine	0	Fine byte of Transition
50	Tint	0	0–0 off 1–127 minus green -100% __ -1% 128–128 no shift 129–255 plus green +1% __ +100%

Mode3 tint channel single pixel (101)

101 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	

Mode3 tint channel single pixel (101) (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	
8	Zoom	128	
9	Zoom	0	
10	Zoom	0	
11	Beam Shaper Pos	0	
12	C TO	0	

Mode3 tint channel single pixel (101) (continued)

Ch	Function	Default	DMX values
13	Color Wheel	0	0–0 inactive colors rgb (wheel slot 1) 1–3 white (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 6000K (wheel slot 15) 71–71 6500K (wheel slot 16) 72–72 7000K (wheel slot 17) 73–191 8000K (wheel slot 18) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
14	Red	255	
15	Green	255	
16	Blue	255	
17	White	0	
18	Sparkle	0	
19	Sparkle Speed	0	
20	Effects1Mode	0	

Mode3 tint channel single pixel (101) (continued)

Ch	Function	Default	DMX values
21	Effect	0	0–0 no macro 1–1 2 color complete shutter 2–2 2 color inner shutter 3–3 2 color outer shutter 4–4 2 color no shutter 5–5 2 color complete shutter 6–6 2 color inner shutter 7–7 2 color outer shutter 8–8 2 color no shutter 9–10 2 color complete shutter 11–11 1 12–12 2 13–13 3 14–14 4 15–15 5 16–16 6 17–17 7 18–18 8 19–19 9 20–20 0 21–21 1 22–22 2 23–23 3 24–24 4 25–25 5 26–26 6 27–27 7 28–28 8 29–29 9 30–30 smily small 31–31 smily big 32–32 smily small upside down 33–33 smiley big upside down 34–34 pattern beam 1 35–35 pattern beam 2 36–36 pattern beam 3 37–37 pattern beam 4 38–38 pattern beam 5 39–39 pattern beam 6 40–40 pattern beam 7 41–41 pattern beam 8 42–42 pattern beam 9 43–43 pattern beam 10 44–44 pattern beam 11 45–45 pattern beam 12 46–46 pattern beam 13 47–47 pattern beam 14 48–48 pattern beam 15 49–49 pattern beam 16 50–50 pattern beam 17 51–51 pattern beam 18 52–52 pattern beam 19 53–54 no pattern beam 55–59 circles 60–79 cake slices 80–86 lines horizontal 87–93 lines vertical 94–100 lines diagonal 1 101–107 lines diagonal 2 108–114 circle lines 115–122 half beam 123–129 dots 130–130 color spread circles 131–132 color spread cake slices

Mode3 tint channel single pixel (101) (continued)

Ch	Function	Default	DMX values
22	Effect Speed	0	
23	Transition	0	
24	Tint	0	
25	Dummy	0	
26	Red	0	
27	Green	0	
28	Blue	0	
29	White	0	
30	Red	0	
31	Green	0	
32	Blue	0	
33	White	0	
34	Red	0	
35	Green	0	
36	Blue	0	
37	White	0	
38	Red	0	
39	Green	0	
40	Blue	0	
41	White	0	
42	Red	0	
43	Green	0	
44	Blue	0	
45	White	0	
46	Red	0	
47	Green	0	
48	Blue	0	
49	White	0	
50	Red	0	
51	Green	0	
52	Blue	0	
53	White	0	
54	Red	0	
55	Green	0	
56	Blue	0	
57	White	0	
58	Red	0	
59	Green	0	
60	Blue	0	
61	White	0	
62	Red	0	
63	Green	0	
64	Blue	0	
65	White	0	
66	Red	0	

Mode3 tint channel single pixel (101) (continued)

Ch	Function	Default	DMX values
67	Green	0	
68	Blue	0	
69	White	0	
70	Red	0	
71	Green	0	
72	Blue	0	
73	White	0	
74	Red	0	
75	Green	0	
76	Blue	0	
77	White	0	
78	Red	0	
79	Green	0	
80	Blue	0	
81	White	0	
82	Red	0	
83	Green	0	
84	Blue	0	
85	White	0	
86	Red	0	
87	Green	0	
88	Blue	0	
89	White	0	
90	Red	0	
91	Green	0	
92	Blue	0	
93	White	0	
94	Red	0	
95	Green	0	
96	Blue	0	
97	White	0	
98	Red	0	
99	Green	0	
100	Blue	0	
101	White	0	

Mode1 tint channel single pixel (112)

112 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	

Mode1 tint channel single pixel (112) (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	
8	Zoom	128	
9	Zoom	0	
10	Zoom	0	
11	Beam Shaper Pos	0	
12	C TO	0	
13	Blackout Mode	0	
14	Effects Sync	0	
15	Dimmer	255	
16	Dimmer	255	

Mode1 tint channel single pixel (112) (continued)

Ch	Function	Default	DMX values
17	Color Wheel	0	0–0 inactive colors rgb (wheel slot 1) 1–3 white (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 6000K (wheel slot 15) 71–71 6500K (wheel slot 16) 72–72 7000K (wheel slot 17) 73–191 8000K (wheel slot 18) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
18	Red	255	
19	Green	255	
20	Blue	255	
21	White	0	
22	Red	0	
23	Green	0	
24	Blue	0	
25	White	0	
26	Sparkle	0	
27	Sparkle Speed	0	
28	Effects1Mode	0	

Mode1 tint channel single pixel (112) (continued)

Ch	Function	Default	DMX values
29	Effect	0	0–0 no macro 1–1 2 color complete shutter 2–2 2 color inner shutter 3–3 2 color outer shutter 4–4 2 color no shutter 5–5 2 color complete shutter 6–6 2 color inner shutter 7–7 2 color outer shutter 8–8 2 color no shutter 9–10 2 color complete shutter 11–11 1 12–12 2 13–13 3 14–14 4 15–15 5 16–16 6 17–17 7 18–18 8 19–19 9 20–20 0 21–21 1 22–22 2 23–23 3 24–24 4 25–25 5 26–26 6 27–27 7 28–28 8 29–29 9 30–30 smily small 31–31 smily big 32–32 smily small upside down 33–33 smiley big upside down 34–34 pattern beam 1 35–35 pattern beam 2 36–36 pattern beam 3 37–37 pattern beam 4 38–38 pattern beam 5 39–39 pattern beam 6 40–40 pattern beam 7 41–41 pattern beam 8 42–42 pattern beam 9 43–43 pattern beam 10 44–44 pattern beam 11 45–45 pattern beam 12 46–46 pattern beam 13 47–47 pattern beam 14 48–48 pattern beam 15 49–49 pattern beam 16 50–50 pattern beam 17 51–51 pattern beam 18 52–52 pattern beam 19 53–54 no pattern beam 55–59 circles 60–79 cake slices 80–86 lines horizontal 87–93 lines vertical 94–100 lines diagonal 1 101–107 lines diagonal 2 108–114 circle lines 115–122 half beam 123–129 dots 130–130 color spread circles 131–132 color spread cake slices

Mode1 tint channel single pixel (112) (continued)

Ch	Function	Default	DMX values
30	Effect Speed	0	
31	Effects2Mode	0	

Mode1 tint channel single pixel (112) (continued)

Ch	Function	Default	DMX values
32	Effect 2	0	0–0 no macro 1–1 2 color complete shutter 2–2 2 color inner shutter 3–3 2 color outer shutter 4–4 2 color no shutter 5–5 2 color complete shutter 6–6 2 color inner shutter 7–7 2 color outer shutter 8–8 2 color no shutter 9–10 2 color complete shutter 11–11 1 12–12 2 13–13 3 14–14 4 15–15 5 16–16 6 17–17 7 18–18 8 19–19 9 20–20 0 21–21 1 22–22 2 23–23 3 24–24 4 25–25 5 26–26 6 27–27 7 28–28 8 29–29 9 30–30 smily small 31–31 smily big 32–32 smily small upside down 33–33 smiley big upside down 34–34 pattern beam 1 35–35 pattern beam 2 36–36 pattern beam 3 37–37 pattern beam 4 38–38 pattern beam 5 39–39 pattern beam 6 40–40 pattern beam 7 41–41 pattern beam 8 42–42 pattern beam 9 43–52 pattern beam 10 53–54 no pattern beam 55–59 circles 60–79 cake slices 80–86 lines horizontal 87–93 lines vertical 94–100 lines diagonal 1 101–107 lines diagonal 2 108–114 circle lines 115–122 half beam 123–129 dots 130–130 color spread circles 131–132 color spread cake slices 133–137 color spread lines 138–138 dots 139–145 circles 146–165 cake slices 166–172 lines horizontal 173–179 lines vertical 180–186 lines diagonal 1 187–193 lines diagonal 2 194–200 circle lines

Mode1 tint channel single pixel (112) (continued)

Ch	Function	Default	DMX values
33	Effect Speed 2	0	
34	Transition	0	
35	Tint	0	
36	Dummy	0	
37	Red	0	
38	Green	0	
39	Blue	0	
40	White	0	
41	Red	0	
42	Green	0	
43	Blue	0	
44	White	0	
45	Red	0	
46	Green	0	
47	Blue	0	
48	White	0	
49	Red	0	
50	Green	0	
51	Blue	0	
52	White	0	
53	Red	0	
54	Green	0	
55	Blue	0	
56	White	0	
57	Red	0	
58	Green	0	
59	Blue	0	
60	White	0	
61	Red	0	
62	Green	0	
63	Blue	0	
64	White	0	
65	Red	0	
66	Green	0	
67	Blue	0	
68	White	0	
69	Red	0	
70	Green	0	
71	Blue	0	
72	White	0	
73	Red	0	
74	Green	0	
75	Blue	0	
76	White	0	
77	Red	0	

Mode1 tint channel single pixel (112) (continued)

Ch	Function	Default	DMX values
78	Green	0	
79	Blue	0	
80	White	0	
81	Red	0	
82	Green	0	
83	Blue	0	
84	White	0	
85	Red	0	
86	Green	0	
87	Blue	0	
88	White	0	
89	Red	0	
90	Green	0	
91	Blue	0	
92	White	0	
93	Red	0	
94	Green	0	
95	Blue	0	
96	White	0	
97	Red	0	
98	Green	0	
99	Blue	0	
100	White	0	
101	Red	0	
102	Green	0	
103	Blue	0	
104	White	0	
105	Red	0	
106	Green	0	
107	Blue	0	
108	White	0	
109	Red	0	
110	Green	0	
111	Blue	0	
112	White	0	

Mode2 tint channel single pixel (127)

127 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	

Mode2 tint channel single pixel (127) (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	
8	Dimmer Fine	0	Fine byte of Dimmer
9	Zoom	128	
10	Zoom	0	
11	Zoom	0	
12	Beam Shaper Pos	0	
13	Beam Shaper Pos Fine	0	Fine byte of Beam Shaper Pos
14	C TO	0	
15	C TO Fine	0	Fine byte of C TO
16	Blackout Mode	0	
17	Effects Sync	0	
18	Effects Sync Fine	0	Fine byte of Effects Sync
19	Dimmer	255	
20	Dimmer Fine	255	Fine byte of Dimmer
21	Dimmer	255	
22	Dimmer Fine	255	Fine byte of Dimmer

Mode2 tint channel single pixel (127) (continued)

Ch	Function	Default	DMX values
23	Color Wheel	0	0–0 inactive colors rgb (wheel slot 1) 1–3 white (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 6000K (wheel slot 15) 71–71 6500K (wheel slot 16) 72–72 7000K (wheel slot 17) 73–191 8000K (wheel slot 18) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
24	Red	255	
25	Red Fine	255	Fine byte of Red
26	Green	255	
27	Green Fine	255	Fine byte of Green
28	Blue	255	
29	Blue Fine	255	Fine byte of Blue
30	White	0	
31	White Fine	0	Fine byte of White
32	Red	0	
33	Red Fine	0	Fine byte of Red
34	Green	0	
35	Green Fine	0	Fine byte of Green
36	Blue	0	
37	Blue Fine	0	Fine byte of Blue
38	White	0	
39	White Fine	0	Fine byte of White
40	Sparkle	0	
41	Sparkle Speed	0	
42	Effects1Mode	0	

Mode2 tint channel single pixel (127) (continued)

Ch	Function	Default	DMX values
43	Effect	0	0–0 no macro 1–1 2 color complete shutter 2–2 2 color inner shutter 3–3 2 color outer shutter 4–4 2 color no shutter 5–5 2 color complete shutter 6–6 2 color inner shutter 7–7 2 color outer shutter 8–8 2 color no shutter 9–10 2 color complete shutter 11–11 1 12–12 2 13–13 3 14–14 4 15–15 5 16–16 6 17–17 7 18–18 8 19–19 9 20–20 0 21–21 1 22–22 2 23–23 3 24–24 4 25–25 5 26–26 6 27–27 7 28–28 8 29–29 9 30–30 smily small 31–31 smily big 32–32 smily small upside down 33–33 smiley big upside down 34–34 pattern beam 1 35–35 pattern beam 2 36–36 pattern beam 3 37–37 pattern beam 4 38–38 pattern beam 5 39–39 pattern beam 6 40–40 pattern beam 7 41–41 pattern beam 8 42–42 pattern beam 9 43–43 pattern beam 10 44–44 pattern beam 11 45–45 pattern beam 12 46–46 pattern beam 13 47–47 pattern beam 14 48–48 pattern beam 15 49–49 pattern beam 16 50–50 pattern beam 17 51–51 pattern beam 18 52–52 pattern beam 19 53–54 no pattern beam 55–59 circles 60–79 cake slices 80–86 lines horizontal 87–93 lines vertical 94–100 lines diagonal 1 101–107 lines diagonal 2 108–114 circle lines 115–122 half beam 123–129 dots 130–130 color spread circles 131–132 color spread cake slices

Mode2 tint channel single pixel (127) (continued)

Ch	Function	Default	DMX values
44	Effect Speed	0	
45	Effects2Mode	0	

Mode2 tint channel single pixel (127) (continued)

Ch	Function	Default	DMX values
46	Effect 2	0	0–0 no macro 1–1 2 color complete shutter 2–2 2 color inner shutter 3–3 2 color outer shutter 4–4 2 color no shutter 5–5 2 color complete shutter 6–6 2 color inner shutter 7–7 2 color outer shutter 8–8 2 color no shutter 9–10 2 color complete shutter 11–11 1 12–12 2 13–13 3 14–14 4 15–15 5 16–16 6 17–17 7 18–18 8 19–19 9 20–20 0 21–21 1 22–22 2 23–23 3 24–24 4 25–25 5 26–26 6 27–27 7 28–28 8 29–29 9 30–30 smily small 31–31 smily big 32–32 smily small upside down 33–33 smiley big upside down 34–34 pattern beam 1 35–35 pattern beam 2 36–36 pattern beam 3 37–37 pattern beam 4 38–38 pattern beam 5 39–39 pattern beam 6 40–40 pattern beam 7 41–41 pattern beam 8 42–42 pattern beam 9 43–52 pattern beam 10 53–54 no pattern beam 55–59 circles 60–79 cake slices 80–86 lines horizontal 87–93 lines vertical 94–100 lines diagonal 1 101–107 lines diagonal 2 108–114 circle lines 115–122 half beam 123–129 dots 130–130 color spread circles 131–132 color spread cake slices 133–137 color spread lines 138–138 dots 139–145 circles 146–165 cake slices 166–172 lines horizontal 173–179 lines vertical 180–186 lines diagonal 1 187–193 lines diagonal 2 194–200 circle lines

Mode2 tint channel single pixel (127) (continued)

Ch	Function	Default	DMX values
47	Effect Speed 2	0	
48	Transition	0	
49	Transition Fine	0	Fine byte of Transition
50	Tint	0	
51	Dummy	0	
52	Red	0	
53	Green	0	
54	Blue	0	
55	White	0	
56	Red	0	
57	Green	0	
58	Blue	0	
59	White	0	
60	Red	0	
61	Green	0	
62	Blue	0	
63	White	0	
64	Red	0	
65	Green	0	
66	Blue	0	
67	White	0	
68	Red	0	
69	Green	0	
70	Blue	0	
71	White	0	
72	Red	0	
73	Green	0	
74	Blue	0	
75	White	0	
76	Red	0	
77	Green	0	
78	Blue	0	
79	White	0	
80	Red	0	
81	Green	0	
82	Blue	0	
83	White	0	
84	Red	0	
85	Green	0	
86	Blue	0	
87	White	0	
88	Red	0	
89	Green	0	
90	Blue	0	
91	White	0	

Mode2 tint channel single pixel (127) (continued)

Ch	Function	Default	DMX values
92	Red	0	
93	Green	0	
94	Blue	0	
95	White	0	
96	Red	0	
97	Green	0	
98	Blue	0	
99	White	0	
100	Red	0	
101	Green	0	
102	Blue	0	
103	White	0	
104	Red	0	
105	Green	0	
106	Blue	0	
107	White	0	
108	Red	0	
109	Green	0	
110	Blue	0	
111	White	0	
112	Red	0	
113	Green	0	
114	Blue	0	
115	White	0	
116	Red	0	
117	Green	0	
118	Blue	0	
119	White	0	
120	Red	0	
121	Green	0	
122	Blue	0	
123	White	0	
124	Red	0	
125	Green	0	
126	Blue	0	
127	White	0	