Black Light Design

Robe Robin Spiider



Manufacturer	**Black Light Design**
Type	**Moving head**
DMX modes	**10**
DMX footprint	**27, 33, 34, 47, 49, 66, 79 channels**
Beam angle	**4-50°**
Pan range	**540°**
Tilt range	**220°**
Heads / cells	**6**
Size (W × H × D)	**292 × 225 × 285 mm**
GDTF fixture type	**35574C14-44AC-4AAB-9A29-41…**

Controls

Zoom · Colour temperature · Colour wheel · Effect speed · Strobe · Dimmer · Pixel control · Pan and tilt · Movement speed

Safety-relevant functions

Built-in effect programmes

DMX modes

Mode 2 - Basic	27 ch
Mode 5 - Wash	27 ch
Mode 3 - Advanced	33 ch
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Mode 8 - Pixel RGBW	66 ch
Mode 10 - Pattern full RGBW	79 ch

Mode 2 - Basic

27 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	Position MSpeed	0	
6	Control1	0	
7	Color Macro1	0	
8	Red	255	
9	Green	255	
10	Blue	255	
11	White	255	
12	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K
13	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors

Mode 2 - Basic (continued)

Ch	Function	Default	DMX values
14	Effect	0	0–2 No function 3–4 Effect 1 5–6 Effect 2 7–8 Effect 3 9–10 Effect 4 11–12 Effect 5 13–14 Effect 6 15–16 Effect 7 17–18 Effect 8 19–20 Effect 9 21–22 Effect 10 23–24 Effect 11 25–26 Effect 12 27–28 Effect 13 29–30 Effect 14 31–32 Effect 15 33–34 Effect 16 35–36 Effect 17 37–38 Effect 18 39–40 Effect 19 41–42 Effect 20 43–44 Effect 21 45–46 Effect 22 47–48 Effect 23 49–50 Effect 24 51–52 Effect 25 53–54 Effect 26 55–56 Effect 27 57–58 Effect 28 59–60 Effect 29 61–62 Effect 30 63–64 Effect 31 65–66 Effect 32 67–68 Effect 33 69–70 Effect 34 71–72 Effect 35 73–74 Effect 36 75–76 Effect 37 77–78 Effect 38 79–80 Effect 39 81–82 Effect 40 83–84 Effect 41 85–86 Effect 42 87–88 Effect 43 89–90 Effect 44 91–92 Effect 45 93–94 Effect 46 95–96 Effect 47 97–98 Effect 48 99–100 Effect 49 101–102 Effect 50 103–104 Effect 51 105–106 Effect 52 107–108 Effect 53 109–110 Effect 54 111–112 Effect 55 113–114 Effect 56 115–116 Effect 57 117–118 Effect 58 119–120 Effect 59 121–122 Effect 60 123–124 Effect 61 125–126 Effect 62 127–128 Effect 63

Mode 2 - Basic (continued)

Ch	Function	Default	DMX values
15	Effect Speed	0	0–127 Speed from min to max 128–255 Speed from max to min
16	Effects1Fade	0	0–0 Without fade time 1–255 Fade time from min to max
17	Flower Effect	0	0–0 Open position/Flower Effect Off (wheel slot 1) 1–24 Fast to slow 1/7 (wheel slot 2) 25–49 Fast to slow 2/7 (wheel slot 2) 50–74 Fast to slow 3/7 (wheel slot 2) 75–99 Fast to slow 4/7 (wheel slot 2) 100–119 Fast to slow 5/7 (wheel slot 2) 120–124 Fast to slow 6/7 (wheel slot 2) 125–127 Fast to slow 7/7 (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–131 Slow to fast 1/7 (wheel slot 2) 132–136 Slow to fast 2/7 (wheel slot 2) 137–156 Slow to fast 3/7 (wheel slot 2) 157–181 Slow to fast 4/7 (wheel slot 2) 182–206 Slow to fast 5/7 (wheel slot 2) 207–232 Slow to fast 6/7 (wheel slot 2) 233–255 Slow to fast 7/7 (wheel slot 2)
18	Red	255	
19	Green	255	
20	Blue	255	
21	White	255	
22	Color Macro1	0	
23	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 FlowerStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 FlowerStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 FlowerStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 FlowerStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 FlowerStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 FlowerStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 FlowerStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 FlowerStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 FlowerStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
24	Dimmer	255	0–254 Closed 255–255 Open
25	Zoom	128	

Mode 2 - Basic (continued)

Ch	Function	Default	DMX values
26	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
27	Dimmer	0	0–254 Closed 255–255 Open

Mode 5 - Wash

27 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	Position MSpeed	0	
6	Control1	0	
7	Color Macro1	0	
8	Red	255	
9	Green	255	
10	Blue	255	
11	White	255	
12	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K
13	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 BackgroundStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 BackgroundStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1... 135–140 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2... 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4... 144–149 BackgroundStrobePulseClose · Fast to slow 1/7 0.5... 150–155 BackgroundStrobePulseClose · Fast to slow 4/7 0.3... 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
14	Dimmer	255	0–254 Closed 255–255 Open

Mode 5 - Wash (continued)

Ch	Function	Default	DMX values
15	L EDZone Mode	0	
16	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors
17	Flower Effect	0	0–0 Open position/Flower Effect Off (wheel slot 1) 1–24 Fast to slow 1/7 (wheel slot 2) 25–49 Fast to slow 2/7 (wheel slot 2) 50–74 Fast to slow 3/7 (wheel slot 2) 75–99 Fast to slow 4/7 (wheel slot 2) 100–119 Fast to slow 5/7 (wheel slot 2) 120–124 Fast to slow 6/7 (wheel slot 2) 125–127 Fast to slow 7/7 (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–131 Slow to fast 1/7 (wheel slot 2) 132–136 Slow to fast 2/7 (wheel slot 2) 137–156 Slow to fast 3/7 (wheel slot 2) 157–181 Slow to fast 4/7 (wheel slot 2) 182–206 Slow to fast 5/7 (wheel slot 2) 207–232 Slow to fast 6/7 (wheel slot 2) 233–255 Slow to fast 7/7 (wheel slot 2)
18	Red	255	
19	Green	255	
20	Blue	255	
21	White	255	
22	Color Macro1	0	
23	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 FlowerStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 FlowerStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 FlowerStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 FlowerStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 FlowerStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 FlowerStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 FlowerStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 FlowerStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 FlowerStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
24	Dimmer	255	0–254 Closed 255–255 Open
25	Zoom	128	

Mode 5 - Wash (continued)

Ch	Function	Default	DMX values
26	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
27	Dimmer	0	0–254 Closed 255–255 Open

Mode 3 - Advanced

33 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	Position MSpeed	0	
6	Control1	0	
7	Color Macro1	0	
8	Red	255	
9	Red Fine	255	Fine byte of Red
10	Green	255	
11	Green Fine	255	Fine byte of Green
12	Blue	255	
13	Blue Fine	255	Fine byte of Blue
14	White	255	
15	White Fine	255	Fine byte of White
16	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K
17	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors

Mode 3 - Advanced (continued)

Ch	Function	Default	DMX values
18	Effect	0	0–2 No function 3–4 Effect 1 5–6 Effect 2 7–8 Effect 3 9–10 Effect 4 11–12 Effect 5 13–14 Effect 6 15–16 Effect 7 17–18 Effect 8 19–20 Effect 9 21–22 Effect 10 23–24 Effect 11 25–26 Effect 12 27–28 Effect 13 29–30 Effect 14 31–32 Effect 15 33–34 Effect 16 35–36 Effect 17 37–38 Effect 18 39–40 Effect 19 41–42 Effect 20 43–44 Effect 21 45–46 Effect 22 47–48 Effect 23 49–50 Effect 24 51–52 Effect 25 53–54 Effect 26 55–56 Effect 27 57–58 Effect 28 59–60 Effect 29 61–62 Effect 30 63–64 Effect 31 65–66 Effect 32 67–68 Effect 33 69–70 Effect 34 71–72 Effect 35 73–74 Effect 36 75–76 Effect 37 77–78 Effect 38 79–80 Effect 39 81–82 Effect 40 83–84 Effect 41 85–86 Effect 42 87–88 Effect 43 89–90 Effect 44 91–92 Effect 45 93–94 Effect 46 95–96 Effect 47 97–98 Effect 48 99–100 Effect 49 101–102 Effect 50 103–104 Effect 51 105–106 Effect 52 107–108 Effect 53 109–110 Effect 54 111–112 Effect 55 113–114 Effect 56 115–116 Effect 57 117–118 Effect 58 119–120 Effect 59 121–122 Effect 60 123–124 Effect 61 125–126 Effect 62 127–128 Effect 63

Mode 3 - Advanced (continued)

Ch	Function	Default	DMX values
19	Effect Speed	0	0–127 Speed from min to max 128–255 Speed from max to min
20	Effects1Fade	0	0–0 Without fade time 1–255 Fade time from min to max
21	Flower Effect	0	0–0 Open position/Flower Effect Off (wheel slot 1) 1–24 Fast to slow 1/7 (wheel slot 2) 25–49 Fast to slow 2/7 (wheel slot 2) 50–74 Fast to slow 3/7 (wheel slot 2) 75–99 Fast to slow 4/7 (wheel slot 2) 100–119 Fast to slow 5/7 (wheel slot 2) 120–124 Fast to slow 6/7 (wheel slot 2) 125–127 Fast to slow 7/7 (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–131 Slow to fast 1/7 (wheel slot 2) 132–136 Slow to fast 2/7 (wheel slot 2) 137–156 Slow to fast 3/7 (wheel slot 2) 157–181 Slow to fast 4/7 (wheel slot 2) 182–206 Slow to fast 5/7 (wheel slot 2) 207–232 Slow to fast 6/7 (wheel slot 2) 233–255 Slow to fast 7/7 (wheel slot 2)
22	Red	255	
23	Green	255	
24	Blue	255	
25	White	255	
26	Color Macro1	0	
27	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 FlowerStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 FlowerStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 FlowerStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 FlowerStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 FlowerStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 FlowerStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 FlowerStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 FlowerStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 FlowerStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
28	Dimmer	255	0–254 Closed 255–255 Open
29	Zoom	128	
30	Zoom Fine	0	Fine byte of Zoom

Mode 3 - Advanced (continued)

Ch	Function	Default	DMX values
31	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
32	Dimmer	0	0–254 Closed 255–255 Open
33	Dimmer Fine	0	Fine byte of Dimmer

Mode 4 - Full RGBW

33 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	Position MSpeed	0	
6	Control1	0	
7	Color Macro1	0	
8	Red	255	
9	Red Fine	255	Fine byte of Red
10	Green	255	
11	Green Fine	255	Fine byte of Green
12	Blue	255	
13	Blue Fine	255	Fine byte of Blue
14	White	255	
15	White Fine	255	Fine byte of White
16	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K

Mode 4 - Full RGBW (continued)

Ch	Function	Default	DMX values
17	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors

Mode 4 - Full RGBW (continued)

Ch	Function	Default	DMX values
18	Effect	0	0–2 No function 3–4 Effect 1 5–6 Effect 2 7–8 Effect 3 9–10 Effect 4 11–12 Effect 5 13–14 Effect 6 15–16 Effect 7 17–18 Effect 8 19–20 Effect 9 21–22 Effect 10 23–24 Effect 11 25–26 Effect 12 27–28 Effect 13 29–30 Effect 14 31–32 Effect 15 33–34 Effect 16 35–36 Effect 17 37–38 Effect 18 39–40 Effect 19 41–42 Effect 20 43–44 Effect 21 45–46 Effect 22 47–48 Effect 23 49–50 Effect 24 51–52 Effect 25 53–54 Effect 26 55–56 Effect 27 57–58 Effect 28 59–60 Effect 29 61–62 Effect 30 63–64 Effect 31 65–66 Effect 32 67–68 Effect 33 69–70 Effect 34 71–72 Effect 35 73–74 Effect 36 75–76 Effect 37 77–78 Effect 38 79–80 Effect 39 81–82 Effect 40 83–84 Effect 41 85–86 Effect 42 87–88 Effect 43 89–90 Effect 44 91–92 Effect 45 93–94 Effect 46 95–96 Effect 47 97–98 Effect 48 99–100 Effect 49 101–102 Effect 50 103–104 Effect 51 105–106 Effect 52 107–108 Effect 53 109–110 Effect 54 111–112 Effect 55 113–114 Effect 56 115–116 Effect 57 117–118 Effect 58 119–120 Effect 59 121–122 Effect 60 123–124 Effect 61 125–126 Effect 62 127–128 Effect 63

Mode 4 - Full RGBW (continued)

Ch	Function	Default	DMX values
19	Effect Speed	0	0–127 Speed from min to max 128–255 Speed from max to min
20	Effects1Fade	0	0–0 Without fade time 1–255 Fade time from min to max
21	Flower Effect	0	0–0 Open position/Flower Effect Off (wheel slot 1) 1–24 Fast to slow 1/7 (wheel slot 2) 25–49 Fast to slow 2/7 (wheel slot 2) 50–74 Fast to slow 3/7 (wheel slot 2) 75–99 Fast to slow 4/7 (wheel slot 2) 100–119 Fast to slow 5/7 (wheel slot 2) 120–124 Fast to slow 6/7 (wheel slot 2) 125–127 Fast to slow 7/7 (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–131 Slow to fast 1/7 (wheel slot 2) 132–136 Slow to fast 2/7 (wheel slot 2) 137–156 Slow to fast 3/7 (wheel slot 2) 157–181 Slow to fast 4/7 (wheel slot 2) 182–206 Slow to fast 5/7 (wheel slot 2) 207–232 Slow to fast 6/7 (wheel slot 2) 233–255 Slow to fast 7/7 (wheel slot 2)
22	Red	255	
23	Green	255	
24	Blue	255	
25	White	255	
26	Color Macro1	0	
27	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 FlowerStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 FlowerStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 FlowerStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 FlowerStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 FlowerStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 FlowerStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 FlowerStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 FlowerStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 FlowerStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
28	Dimmer	255	0–254 Closed 255–255 Open
29	Zoom	128	
30	Zoom Fine	0	Fine byte of Zoom

Mode 4 - Full RGBW (continued)

Ch	Function	Default	DMX values
31	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
32	Dimmer	0	0–254 Closed 255–255 Open
33	Dimmer Fine	0	Fine byte of Dimmer

Mode 7 - Pixel RGB

34 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	Position MSpeed	0	
6	Control1	0	
7	Color Macro1	0	
8	Red	255	
9	Red Fine	255	Fine byte of Red
10	Green	255	
11	Green Fine	255	Fine byte of Green
12	Blue	255	
13	Blue Fine	255	Fine byte of Blue
14	White	255	
15	White Fine	255	Fine byte of White
16	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K

Mode 7 - Pixel RGB (continued)

Ch	Function	Default	DMX values
17	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 BackgroundStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 BackgroundStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1... 135–140 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2... 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4... 144–149 BackgroundStrobePulseClose · Fast to slow 1/7 0.5... 150–155 BackgroundStrobePulseClose · Fast to slow 4/7 0.3... 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
18	Dimmer	255	0–254 Closed 255–255 Open
19	Dimmer Fine	255	Fine byte of Dimmer
20	L EDZone Mode	0	
21	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors
22	Flower Effect	0	0–0 Open position/Flower Effect Off (wheel slot 1) 1–24 Fast to slow 1/7 (wheel slot 2) 25–49 Fast to slow 2/7 (wheel slot 2) 50–74 Fast to slow 3/7 (wheel slot 2) 75–99 Fast to slow 4/7 (wheel slot 2) 100–119 Fast to slow 5/7 (wheel slot 2) 120–124 Fast to slow 6/7 (wheel slot 2) 125–127 Fast to slow 7/7 (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–131 Slow to fast 1/7 (wheel slot 2) 132–136 Slow to fast 2/7 (wheel slot 2) 137–156 Slow to fast 3/7 (wheel slot 2) 157–181 Slow to fast 4/7 (wheel slot 2) 182–206 Slow to fast 5/7 (wheel slot 2) 207–232 Slow to fast 6/7 (wheel slot 2) 233–255 Slow to fast 7/7 (wheel slot 2)
23	Red	255	
24	Green	255	
25	Blue	255	
26	White	255	
27	Color Macro1	0	

Mode 7 - Pixel RGB (continued)

Ch	Function	Default	DMX values
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 FlowerStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 FlowerStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 FlowerStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 FlowerStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 FlowerStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 FlowerStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 FlowerStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 FlowerStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 FlowerStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
29	Dimmer	255	0–254 Closed 255–255 Open
30	Zoom	128	
31	Zoom Fine	0	Fine byte of Zoom
32	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
33	Dimmer	0	0–254 Closed 255–255 Open
34	Dimmer Fine	0	Fine byte of Dimmer

Mode 6 - Pattern

47 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	Position MSpeed	0	
6	Control1	0	
7	Color Macro1	0	
8	Red	255	
9	Red Fine	255	Fine byte of Red
10	Green	255	
11	Green Fine	255	Fine byte of Green
12	Blue	255	

Mode 6 - Pattern (continued)

Ch	Function	Default	DMX values
13	Blue Fine	255	Fine byte of Blue
14	White	255	
15	White Fine	255	Fine byte of White
16	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K
17	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 BackgroundStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 BackgroundStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1… 135–140 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2… 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4… 144–149 BackgroundStrobePulseClose · Fast to slow 1/7 0.5… 150–155 BackgroundStrobePulseClose · Fast to slow 4/7 0.3… 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1… 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
18	Dimmer	255	0–254 Closed 255–255 Open
19	Dimmer Fine	255	Fine byte of Dimmer
20	L EDZone Mode	0	
21	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors
22	Flower Effect	0	0–0 Open position/Flower Effect Off (wheel slot 1) 1–24 Fast to slow 1/7 (wheel slot 2) 25–49 Fast to slow 2/7 (wheel slot 2) 50–74 Fast to slow 3/7 (wheel slot 2) 75–99 Fast to slow 4/7 (wheel slot 2) 100–119 Fast to slow 5/7 (wheel slot 2) 120–124 Fast to slow 6/7 (wheel slot 2) 125–127 Fast to slow 7/7 (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–131 Slow to fast 1/7 (wheel slot 2) 132–136 Slow to fast 2/7 (wheel slot 2) 137–156 Slow to fast 3/7 (wheel slot 2) 157–181 Slow to fast 4/7 (wheel slot 2) 182–206 Slow to fast 5/7 (wheel slot 2) 207–232 Slow to fast 6/7 (wheel slot 2) 233–255 Slow to fast 7/7 (wheel slot 2)
23	Red	255	
24	Green	255	

Mode 6 - Pattern (continued)

Ch	Function	Default	DMX values
25	Blue	255	
26	White	255	
27	Color Macro1	0	
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 FlowerStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 FlowerStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 FlowerStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 FlowerStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 FlowerStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 FlowerStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 FlowerStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 FlowerStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 FlowerStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
29	Dimmer	255	0–254 Closed 255–255 Open
30	Zoom	128	
31	Zoom Fine	0	Fine byte of Zoom
32	Pattern Selection	0	0–2 No pattern 3–4 Pattern 1 5–6 Pattern 2 7–8 Pattern 3 9–10 Pattern 4 11–12 Pattern 5 13–14 Pattern 6 15–16 Pattern 7 17–18 Pattern 8 19–20 Pattern 9 21–22 Pattern 10 23–24 Pattern 11 25–26 Pattern 12 27–255 Reserved
33	Pattern Size	0	0–2 Variant 1 3–4 Variant 2 5–6 Variant 3 7–8 Variant 4 9–10 Variant 5 11–12 Variant 6 13–14 Variant 7 15–16 Variant 8 17–18 Variant 9 19–20 Variant 10 21–22 Variant 11 23–24 Variant 12 25–26 Variant 13 27–28 Variant 14 29–30 Variant 15 31–32 Variant 16 33–34 Variant 17 35–255 Reserved

Mode 6 - Pattern (continued)

Ch	Function	Default	DMX values
34	Pattern Rotation	0	0–0 No rotation 1–127 Pattern indexing 128–190 Forwards rotation - Fast to slow 191–192 No rotation 193–255 Backwards rotation - Slow to fast
35	Pattern Fade	0	0–0 Snap 1–254 Fade min 255–255 Fade max
36	Pattern Transition	0	0–0 No fade 1–254 100 ms 255–255 4 s
37	Pattern Crossfade	255	0–254 Background 255–255 Pattern
38	Red	255	
39	Green	255	
40	Blue	255	
41	White	255	
42	Color Macro1	0	0–2 No macro 3–8 Macro 1 9–14 Macro 2 15–20 Macro 3 21–26 Macro 4 27–32 Macro 5 33–38 Macro 6 39–44 Macro 7 45–50 Macro 8 51–56 Macro 9 57–62 Macro 10 63–68 Macro 11 69–74 Macro 12 75–80 Macro 13 81–86 Macro 14 87–92 Macro 15 93–98 Macro 16 99–104 Macro 17 105–110 Macro 18 111–116 Macro 19 117–122 Macro 20 123–128 Macro 21 129–134 Macro 22 135–140 Macro 23 141–255 Reserved
43	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 PatternStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 PatternStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 PatternStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 PatternStrobePulseOpen · Slow to fast 1/7 0.12–0.... 135–140 PatternStrobePulseOpen · Slow to fast 4/7 0.297–0... 141–143 PatternStrobePulseOpen · Slow to fast 7/7 0.449–0... 144–149 PatternStrobePulseClose · Fast to slow 1/7 0.5–0.3... 150–155 PatternStrobePulseClose · Fast to slow 4/7 0.34–0.... 156–159 PatternStrobePulseClose · Fast to slow 7/7 0.18–0.... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open

Mode 6 - Pattern (continued)

Ch	Function	Default	DMX values
44	Dimmer	255	0–254 Closed 255–255 Open
45	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2… 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.… 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.… 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36… 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2… 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1… 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
46	Dimmer	0	0–254 Closed 255–255 Open
47	Dimmer Fine	0	Fine byte of Dimmer

Mode 9 - Pattern full RGB

47 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	Position MSpeed	0	
6	Control1	0	
7	Color Macro1	0	
8	Red	255	
9	Red Fine	255	Fine byte of Red
10	Green	255	
11	Green Fine	255	Fine byte of Green
12	Blue	255	
13	Blue Fine	255	Fine byte of Blue
14	White	255	
15	White Fine	255	Fine byte of White
16	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K

Mode 9 - Pattern full RGB (continued)

Ch	Function	Default	DMX values
17	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 BackgroundStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 BackgroundStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1... 135–140 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2... 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4... 144–149 BackgroundStrobePulseClose · Fast to slow 1/7 0.5... 150–155 BackgroundStrobePulseClose · Fast to slow 4/7 0.3... 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
18	Dimmer	255	0–254 Closed 255–255 Open
19	Dimmer Fine	255	Fine byte of Dimmer
20	L EDZone Mode	0	
21	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors
22	Flower Effect	0	0–0 Open position/Flower Effect Off (wheel slot 1) 1–24 Fast to slow 1/7 (wheel slot 2) 25–49 Fast to slow 2/7 (wheel slot 2) 50–74 Fast to slow 3/7 (wheel slot 2) 75–99 Fast to slow 4/7 (wheel slot 2) 100–119 Fast to slow 5/7 (wheel slot 2) 120–124 Fast to slow 6/7 (wheel slot 2) 125–127 Fast to slow 7/7 (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–131 Slow to fast 1/7 (wheel slot 2) 132–136 Slow to fast 2/7 (wheel slot 2) 137–156 Slow to fast 3/7 (wheel slot 2) 157–181 Slow to fast 4/7 (wheel slot 2) 182–206 Slow to fast 5/7 (wheel slot 2) 207–232 Slow to fast 6/7 (wheel slot 2) 233–255 Slow to fast 7/7 (wheel slot 2)
23	Red	255	
24	Green	255	
25	Blue	255	
26	White	255	
27	Color Macro1	0	

Mode 9 - Pattern full RGB (continued)

Ch	Function	Default	DMX values
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 FlowerStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 FlowerStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 FlowerStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 FlowerStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 FlowerStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 FlowerStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 FlowerStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 FlowerStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 FlowerStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
29	Dimmer	255	0–254 Closed 255–255 Open
30	Zoom	128	
31	Zoom Fine	0	Fine byte of Zoom
32	Pattern Selection	0	0–2 No pattern 3–4 Pattern 1 5–6 Pattern 2 7–8 Pattern 3 9–10 Pattern 4 11–12 Pattern 5 13–14 Pattern 6 15–16 Pattern 7 17–18 Pattern 8 19–20 Pattern 9 21–22 Pattern 10 23–24 Pattern 11 25–26 Pattern 12 27–255 Reserved
33	Pattern Size	0	0–2 Variant 1 3–4 Variant 2 5–6 Variant 3 7–8 Variant 4 9–10 Variant 5 11–12 Variant 6 13–14 Variant 7 15–16 Variant 8 17–18 Variant 9 19–20 Variant 10 21–22 Variant 11 23–24 Variant 12 25–26 Variant 13 27–28 Variant 14 29–30 Variant 15 31–32 Variant 16 33–34 Variant 17 35–255 Reserved
34	Pattern Rotation	0	0–0 No rotation 1–127 Pattern indexing 128–190 Forwards rotation - Fast to slow 191–192 No rotation 193–255 Backwards rotation - Slow to fast
35	Pattern Fade	0	0–0 Snap 1–254 Fade min 255–255 Fade max

Mode 9 - Pattern full RGB (continued)

Ch	Function	Default	DMX values
36	Pattern Transition	0	0–0 No fade 1–254 100 ms 255–255 4 s
37	Pattern Crossfade	255	0–254 Background 255–255 Pattern
38	Red	255	
39	Green	255	
40	Blue	255	
41	White	255	
42	Color Macro1	0	0–2 No macro 3–8 Macro 1 9–14 Macro 2 15–20 Macro 3 21–26 Macro 4 27–32 Macro 5 33–38 Macro 6 39–44 Macro 7 45–50 Macro 8 51–56 Macro 9 57–62 Macro 10 63–68 Macro 11 69–74 Macro 12 75–80 Macro 13 81–86 Macro 14 87–92 Macro 15 93–98 Macro 16 99–104 Macro 17 105–110 Macro 18 111–116 Macro 19 117–122 Macro 20 123–128 Macro 21 129–134 Macro 22 135–140 Macro 23 141–255 Reserved
43	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 PatternStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 PatternStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 PatternStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 PatternStrobePulseOpen · Slow to fast 1/7 0.12–0.... 135–140 PatternStrobePulseOpen · Slow to fast 4/7 0.297–0... 141–143 PatternStrobePulseOpen · Slow to fast 7/7 0.449–0... 144–149 PatternStrobePulseClose · Fast to slow 1/7 0.5–0.3... 150–155 PatternStrobePulseClose · Fast to slow 4/7 0.34–0.... 156–159 PatternStrobePulseClose · Fast to slow 7/7 0.18–0.... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
44	Dimmer	255	0–254 Closed 255–255 Open

Mode 9 - Pattern full RGB (continued)

Ch	Function	Default	DMX values
45	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
46	Dimmer	0	0–254 Closed 255–255 Open
47	Dimmer Fine	0	Fine byte of Dimmer

Mode 1 - Zones

49 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	Position MSpeed	0	
6	Control1	0	
7	Color Macro1	0	
8	Red	255	
9	Red Fine	255	Fine byte of Red
10	Green	255	
11	Green Fine	255	Fine byte of Green
12	Blue	255	
13	Blue Fine	255	Fine byte of Blue
14	White	255	
15	White Fine	255	Fine byte of White
16	Red	255	
17	Red Fine	255	Fine byte of Red
18	Green	255	
19	Green Fine	255	Fine byte of Green
20	Blue	255	
21	Blue Fine	255	Fine byte of Blue
22	White	255	
23	White Fine	255	Fine byte of White
24	Red	255	
25	Red Fine	255	Fine byte of Red
26	Green	255	
27	Green Fine	255	Fine byte of Green

Mode 1 - Zones (continued)

Ch	Function	Default	DMX values
28	Blue	255	
29	Blue Fine	255	Fine byte of Blue
30	White	255	
31	White Fine	255	Fine byte of White
32	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K
33	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors

Mode 1 - Zones (continued)

Ch	Function	Default	DMX values
34	Effect	0	0–2 No function 3–4 Effect 1 5–6 Effect 2 7–8 Effect 3 9–10 Effect 4 11–12 Effect 5 13–14 Effect 6 15–16 Effect 7 17–18 Effect 8 19–20 Effect 9 21–22 Effect 10 23–24 Effect 11 25–26 Effect 12 27–28 Effect 13 29–30 Effect 14 31–32 Effect 15 33–34 Effect 16 35–36 Effect 17 37–38 Effect 18 39–40 Effect 19 41–42 Effect 20 43–44 Effect 21 45–46 Effect 22 47–48 Effect 23 49–50 Effect 24 51–52 Effect 25 53–54 Effect 26 55–56 Effect 27 57–58 Effect 28 59–60 Effect 29 61–62 Effect 30 63–64 Effect 31 65–66 Effect 32 67–68 Effect 33 69–70 Effect 34 71–72 Effect 35 73–74 Effect 36 75–76 Effect 37 77–78 Effect 38 79–80 Effect 39 81–82 Effect 40 83–84 Effect 41 85–86 Effect 42 87–88 Effect 43 89–90 Effect 44 91–92 Effect 45 93–94 Effect 46 95–96 Effect 47 97–98 Effect 48 99–100 Effect 49 101–102 Effect 50 103–104 Effect 51 105–106 Effect 52 107–108 Effect 53 109–110 Effect 54 111–112 Effect 55 113–114 Effect 56 115–116 Effect 57 117–118 Effect 58 119–120 Effect 59 121–122 Effect 60 123–124 Effect 61 125–126 Effect 62 127–128 Effect 63

Mode 1 - Zones (continued)

Ch	Function	Default	DMX values
35	Effect Speed	0	0–127 Speed from min to max 128–255 Speed from max to min
36	Effects1Fade	0	0–0 Without fade time 1–255 Fade time from min to max
37	Flower Effect	0	0–0 Open position/Flower Effect Off (wheel slot 1) 1–124 Fast to slow 1/7 (wheel slot 2) 125–127 Fast to slow 7/7 (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–232 Slow to fast 1/7 (wheel slot 2) 233–255 Slow to fast 7/7 (wheel slot 2)
38	Red	255	
39	Green	255	
40	Blue	255	
41	White	255	
42	Color Macro1	0	
43	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 FlowerStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 FlowerStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 FlowerStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 FlowerStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 FlowerStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 FlowerStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 FlowerStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 FlowerStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 FlowerStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
44	Dimmer	255	0–254 Closed 255–255 Open
45	Zoom	128	
46	Zoom Fine	0	Fine byte of Zoom
47	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
48	Dimmer	0	0–254 Closed 255–255 Open
49	Dimmer Fine	0	Fine byte of Dimmer

Mode 8 - Pixel RGBW

66 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	Position MSpeed	0	
6	Control1	0	
7	Color Macro1	0	
8	Red	255	
9	Red Fine	255	Fine byte of Red
10	Green	255	
11	Green Fine	255	Fine byte of Green
12	Blue	255	
13	Blue Fine	255	Fine byte of Blue
14	White	255	
15	White Fine	255	Fine byte of White
16	C TO	0	
17	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 BackgroundStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 BackgroundStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1… 135–140 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2… 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4… 144–149 BackgroundStrobePulseClose · Fast to slow 1/7 0.5… 150–155 BackgroundStrobePulseClose · Fast to slow 4/7 0.3… 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1… 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
18	Dimmer	255	
19	Dimmer Fine	255	Fine byte of Dimmer
20	L EDZone Mode	0	
21	Color Mix Mode	45	
22	Flower Effect	0	
23	Red	255	
24	Green	255	
25	Blue	255	
26	White	255	
27	Color Macro1	0	

Mode 8 - Pixel RGBW (continued)

Ch	Function	Default	DMX values
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 FlowerStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 FlowerStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 FlowerStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 FlowerStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 FlowerStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 FlowerStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 FlowerStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 FlowerStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 FlowerStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
29	Dimmer	255	
30	Zoom	128	
31	Zoom Fine	0	Fine byte of Zoom
32	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
33	Dimmer	0	
34	Dimmer Fine	0	Fine byte of Dimmer
35	Red	0	
36	Green	0	
37	Blue	0	
38	White	0	
39	Red	0	
40	Green	0	
41	Blue	0	
42	White	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	
50	Reserved 50	0	
51	Reserved 51	0	

Mode 8 - Pixel RGBW (continued)

Ch	Function	Default	DMX values
52	Reserved 52	0	
53	Reserved 53	0	
54	Reserved 54	0	
55	Reserved 55	0	
56	Reserved 56	0	
57	Reserved 57	0	
58	Reserved 58	0	
59	Reserved 59	0	
60	Reserved 60	0	
61	Reserved 61	0	
62	Reserved 62	0	
63	Red	0	
64	Green	0	
65	Blue	0	
66	White	0	

Mode 10 - Pattern full RGBW

79 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	Position MSpeed	0	
6	Control1	0	
7	Color Macro1	0	
8	Red	255	
9	Red Fine	255	Fine byte of Red
10	Green	255	
11	Green Fine	255	Fine byte of Green
12	Blue	255	
13	Blue Fine	255	Fine byte of Blue
14	White	255	
15	White Fine	255	Fine byte of White
16	C TO	0	

Mode 10 - Pattern full RGBW (continued)

Ch	Function	Default	DMX values
17	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 BackgroundStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 BackgroundStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1... 135–140 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2... 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4... 144–149 BackgroundStrobePulseClose · Fast to slow 1/7 0.5... 150–155 BackgroundStrobePulseClose · Fast to slow 4/7 0.3... 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
18	Dimmer	255	
19	Dimmer Fine	255	Fine byte of Dimmer
20	L EDZone Mode	0	
21	Color Mix Mode	45	
22	Flower Effect	0	
23	Red	255	
24	Green	255	
25	Blue	255	
26	White	255	
27	Color Macro1	0	
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 FlowerStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 FlowerStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 FlowerStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 FlowerStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 FlowerStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 FlowerStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 FlowerStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 FlowerStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 FlowerStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
29	Dimmer	255	
30	Zoom	128	
31	Zoom Fine	0	Fine byte of Zoom
32	Pattern Selection	0	
33	Pattern Size	0	
34	Pattern Rotation	0	
35	Pattern Fade	0	
36	Pattern Transition	0	
37	Pattern Crossfade	255	
38	Red	255	
39	Green	255	
40	Blue	255	

Mode 10 - Pattern full RGBW (continued)

Ch	Function	Default	DMX values
41	White	255	
42	Color Macro1	0	
43	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 PatternStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 PatternStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 PatternStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 PatternStrobePulseOpen · Slow to fast 1/7 0.12–0.... 135–140 PatternStrobePulseOpen · Slow to fast 4/7 0.297–0... 141–143 PatternStrobePulseOpen · Slow to fast 7/7 0.449–0... 144–149 PatternStrobePulseClose · Fast to slow 1/7 0.5–0.3... 150–155 PatternStrobePulseClose · Fast to slow 4/7 0.34–0.... 156–159 PatternStrobePulseClose · Fast to slow 7/7 0.18–0.... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
44	Dimmer	255	
45	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
46	Dimmer	0	
47	Dimmer Fine	0	Fine byte of Dimmer
48	Red	0	
49	Green	0	
50	Blue	0	
51	White	0	
52	Red	0	
53	Green	0	
54	Blue	0	
55	White	0	
56	Reserved 56	0	
57	Reserved 57	0	
58	Reserved 58	0	
59	Reserved 59	0	
60	Reserved 60	0	
61	Reserved 61	0	
62	Reserved 62	0	
63	Reserved 63	0	
64	Reserved 64	0	

Mode 10 - Pattern full RGBW (continued)

Ch	Function	Default	DMX values
65	Reserved 65	0	
66	Reserved 66	0	
67	Reserved 67	0	
68	Reserved 68	0	
69	Reserved 69	0	
70	Reserved 70	0	
71	Reserved 71	0	
72	Reserved 72	0	
73	Reserved 73	0	
74	Reserved 74	0	
75	Reserved 75	0	
76	Red	0	
77	Green	0	
78	Blue	0	
79	White	0	