Robe Lighting

Robin DL7F Wash



Manufacturer	**Robe Lighting**
Type	**Profile spot**
DMX modes	**6**
DMX footprint	**29, 33, 34, 42 channels**
Beam angle	**7-62.5°**
Pan range	**540°**
Tilt range	**240°**
Size (W × H × D)	**317 × 580 × 311 mm**
GDTF fixture type	**237259BC-3852-48D7-A811-C2…**

Controls

Frost · Zoom · CMY colour mixing · Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pan and tilt · Movement speed

Safety-relevant functions

Fixture reset · Service functions

DMX modes

Mode 2 - CMY	29 ch
Mode 2 - RGB	29 ch
Mode 4 - Seven Colors reduced	33 ch
Mode 1 - CMY	34 ch
Mode 1 - RGB	34 ch
Mode 3 - Seven Colors	42 ch

Mode 2 - CMY

29 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	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
6	Control1	0	0–9 No feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–69 NoFeature 7 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–179 Reserved 180–189 Zoom/frost reset 190–199 Barndoors/scrim reset 200–209 Total fixture reset 210–239 Reserved 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max
7	Color Control	0	
8	Color Macro1	0	
9	Cyan	0	
10	Magenta	0	
11	Yellow	0	
12	C TO	0	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 65–65 6600 K 66–109 6578K - > 5622 K 110–110 5600 K 111–179 5580 K - > 4220 K 180–180 4200 K 181–229 4180 K - > 3220 K 230–230 3200 K 231–254 3180 K - > 2720 K 255–255 2700K
13	Tint	0	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–254 Uncorrected white - > Plus green 255–255 Uncorrected white

Mode 2 - CMY (continued)

Ch	Function	Default	DMX values
14	Color Mix Mode	0	0–9 Virtual colours (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Colour mix - Virtual) 70–79 White Point Off (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
15	Frost1MSpeed	0	0–0 function is off 1–255 min to max
16	Scrim Pos	0	0–0 No function 1–255 Scrim inserting
17	Scrim Index	0	0–63 Scrim indexing 0 deg 64–127 Scrim indexing 90 deg 128–191 Scrim indexing 180 deg 192–254 Scrim indexing 270 deg 255–255 Scrim indexing 360 deg
18	Frost1	0	
19	Zoom	127	0–254 Zoom max 255–255 Zoom min
20	Edge Color Correction	0	
21	Shaper Rot	128	
22	Blade1A	0	
23	Blade2A	0	
24	Blade3A	0	
25	Blade4A	0	

Mode 2 - CMY (continued)

Ch	Function	Default	DMX values
26	Shaper Macros	0	0–3 No function 4–7 Macro 1 8–11 Macro 2 12–15 Macro 3 16–19 Macro 4 20–23 Macro 5 24–27 Macro 6 28–31 Macro 7 32–35 Macro 8 36–39 Macro 9 40–43 Macro 10 44–47 Macro 11 48–51 Macro 12 52–55 Macro 13 56–59 Macro 14 60–63 Macro 15 64–67 Macro 16 68–71 Macro 17 72–75 Macro 18 76–79 Macro 19 80–83 Macro 20 84–87 Macro 21 88–91 Macro 22 92–95 Macro 23 96–99 Macro 24 100–103 Macro 25 104–107 Macro 26 108–111 Macro 27 112–115 Macro 28 116–119 Macro 29 120–123 Macro 30 124–127 Macro 31 128–131 Macro 32 132–135 Macro 33 136–139 Macro 34 140–143 Macro 35 144–147 Macro 36 148–151 Macro 37 152–155 Macro 38 156–159 Macro 39 160–163 Macro 40 164–167 Macro 41 168–255 Reserved
27	Shaper Macros Speed	0	
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz 135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz 150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
29	Dimmer	0	0–254 Closed 255–255 Open

Mode 2 - RGB

29 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	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
6	Control1	0	0–9 No feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–69 NoFeature 7 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–179 Reserved 180–189 Zoom/frost reset 190–199 Barndoors/scrim reset 200–209 Total fixture reset 210–239 Reserved 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max
7	Color Control	0	
8	Color Macro1	0	
9	Red	255	
10	Green	255	
11	Blue	255	
12	C TO	0	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 65–65 6600 K 66–109 6578K - > 5622 K 110–110 5600 K 111–179 5580 K - > 4220 K 180–180 4200 K 181–229 4180 K - > 3220 K 230–230 3200 K 231–254 3180 K - > 2720 K 255–255 2700K
13	Tint	0	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–254 Uncorrected white - > Plus green 255–255 Uncorrected white

Mode 2 - RGB (continued)

Ch	Function	Default	DMX values
14	Color Mix Mode	0	0–9 Virtual colours (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Colour mix - Virtual) 70–79 White Point Off (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
15	Frost1MSpeed	0	0–0 function is off 1–255 min to max
16	Scrim Pos	0	0–0 No function 1–255 Scrim inserting
17	Scrim Index	0	0–63 Scrim indexing 0 deg 64–127 Scrim indexing 90 deg 128–191 Scrim indexing 180 deg 192–254 Scrim indexing 270 deg 255–255 Scrim indexing 360 deg
18	Frost1	0	
19	Zoom	127	0–254 Zoom max 255–255 Zoom min
20	Edge Color Correction	0	
21	Shaper Rot	128	
22	Blade1A	0	
23	Blade2A	0	
24	Blade3A	0	
25	Blade4A	0	

Mode 2 - RGB (continued)

Ch	Function	Default	DMX values
26	Shaper Macros	0	0–3 No function 4–7 Macro 1 8–11 Macro 2 12–15 Macro 3 16–19 Macro 4 20–23 Macro 5 24–27 Macro 6 28–31 Macro 7 32–35 Macro 8 36–39 Macro 9 40–43 Macro 10 44–47 Macro 11 48–51 Macro 12 52–55 Macro 13 56–59 Macro 14 60–63 Macro 15 64–67 Macro 16 68–71 Macro 17 72–75 Macro 18 76–79 Macro 19 80–83 Macro 20 84–87 Macro 21 88–91 Macro 22 92–95 Macro 23 96–99 Macro 24 100–103 Macro 25 104–107 Macro 26 108–111 Macro 27 112–115 Macro 28 116–119 Macro 29 120–123 Macro 30 124–127 Macro 31 128–131 Macro 32 132–135 Macro 33 136–139 Macro 34 140–143 Macro 35 144–147 Macro 36 148–151 Macro 37 152–155 Macro 38 156–159 Macro 39 160–163 Macro 40 164–167 Macro 41 168–255 Reserved
27	Shaper Macros Speed	0	
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz 135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz 150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
29	Dimmer	0	0–254 Closed 255–255 Open

Mode 4 - Seven Colors reduced

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	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
6	Control1	0	0–9 No feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–69 NoFeature 7 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–179 Reserved 180–189 Zoom/frost reset 190–199 Barndoors/scrim reset 200–209 Total fixture reset 210–239 Reserved 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max
7	Color Control	0	
8	Color Macro1	0	
9	Red	255	
10	Green	255	
11	Blue	255	
12	Color Add RY	255	
13	Color Add C	255	
14	UV	255	
15	Color Add GY	255	
16	C TO	0	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 65–65 6600 K 66–109 6578K - > 5622 K 110–110 5600 K 111–179 5580 K - > 4220 K 180–180 4200 K 181–229 4180 K - > 3220 K 230–230 3200 K 231–254 3180 K - > 2720 K 255–255 2700K

Mode 4 - Seven Colors reduced (continued)

Ch	Function	Default	DMX values
17	Tint	0	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–254 Uncorrected white - > Plus green 255–255 Uncorrected white
18	Color Mix Mode	0	0–9 Virtual colours (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Colour mix - Virtual) 70–79 White Point Off (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
19	Frost1MSpeed	0	0–0 function is off 1–255 min to max
20	Scrim Pos	0	0–0 No function 1–255 Scrim inserting
21	Scrim Index	0	0–63 Scrim indexing 0 deg 64–127 Scrim indexing 90 deg 128–191 Scrim indexing 180 deg 192–254 Scrim indexing 270 deg 255–255 Scrim indexing 360 deg
22	Frost1	0	
23	Zoom	127	0–254 Zoom max 255–255 Zoom min
24	Edge Color Correction	0	
25	Shaper Rot	128	
26	Blade1A	0	
27	Blade2A	0	
28	Blade3A	0	
29	Blade4A	0	

Mode 4 - Seven Colors reduced (continued)

Ch	Function	Default	DMX values
30	Shaper Macros	0	0–3 No function 4–7 Macro 1 8–11 Macro 2 12–15 Macro 3 16–19 Macro 4 20–23 Macro 5 24–27 Macro 6 28–31 Macro 7 32–35 Macro 8 36–39 Macro 9 40–43 Macro 10 44–47 Macro 11 48–51 Macro 12 52–55 Macro 13 56–59 Macro 14 60–63 Macro 15 64–67 Macro 16 68–71 Macro 17 72–75 Macro 18 76–79 Macro 19 80–83 Macro 20 84–87 Macro 21 88–91 Macro 22 92–95 Macro 23 96–99 Macro 24 100–103 Macro 25 104–107 Macro 26 108–111 Macro 27 112–115 Macro 28 116–119 Macro 29 120–123 Macro 30 124–127 Macro 31 128–131 Macro 32 132–135 Macro 33 136–139 Macro 34 140–143 Macro 35 144–147 Macro 36 148–151 Macro 37 152–155 Macro 38 156–159 Macro 39 160–163 Macro 40 164–167 Macro 41 168–255 Reserved
31	Shaper Macros Speed	0	
32	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz 135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz 150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
33	Dimmer	0	0–254 Closed 255–255 Open

Mode 1 - CMY

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	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
6	Control1	0	0–9 No feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–69 NoFeature 7 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–179 Reserved 180–189 Zoom/frost reset 190–199 Barndoors/scrim reset 200–209 Total fixture reset 210–239 Reserved 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max
7	Color Control	0	
8	Color Macro1	0	
9	Cyan	0	
10	Cyan Fine	0	Fine byte of Cyan
11	Magenta	0	
12	Magenta Fine	0	Fine byte of Magenta
13	Yellow	0	
14	Yellow Fine	0	Fine byte of Yellow
15	C TO	0	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 65–65 6600 K 66–109 6578K - > 5622 K 110–110 5600 K 111–179 5580 K - > 4220 K 180–180 4200 K 181–229 4180 K - > 3220 K 230–230 3200 K 231–254 3180 K - > 2720 K 255–255 2700K
16	Tint	0	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–254 Uncorrected white - > Plus green 255–255 Uncorrected white

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
17	Color Mix Mode	0	0–9 Virtual colours (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Colour mix - Virtual) 70–79 White Point Off (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
18	Frost1MSpeed	0	0–0 function is off 1–255 min to max
19	Scrim Pos	0	0–0 No function 1–255 Scrim inserting
20	Scrim Index	0	0–63 Scrim indexing 0 deg 64–127 Scrim indexing 90 deg 128–191 Scrim indexing 180 deg 192–254 Scrim indexing 270 deg 255–255 Scrim indexing 360 deg
21	Frost1	0	
22	Zoom	127	0–254 Zoom max 255–255 Zoom min
23	Zoom Fine	255	Fine byte of Zoom
24	Edge Color Correction	0	
25	Shaper Rot	128	
26	Blade1A	0	
27	Blade2A	0	
28	Blade3A	0	
29	Blade4A	0	

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
30	Shaper Macros	0	0–3 No function 4–7 Macro 1 8–11 Macro 2 12–15 Macro 3 16–19 Macro 4 20–23 Macro 5 24–27 Macro 6 28–31 Macro 7 32–35 Macro 8 36–39 Macro 9 40–43 Macro 10 44–47 Macro 11 48–51 Macro 12 52–55 Macro 13 56–59 Macro 14 60–63 Macro 15 64–67 Macro 16 68–71 Macro 17 72–75 Macro 18 76–79 Macro 19 80–83 Macro 20 84–87 Macro 21 88–91 Macro 22 92–95 Macro 23 96–99 Macro 24 100–103 Macro 25 104–107 Macro 26 108–111 Macro 27 112–115 Macro 28 116–119 Macro 29 120–123 Macro 30 124–127 Macro 31 128–131 Macro 32 132–135 Macro 33 136–139 Macro 34 140–143 Macro 35 144–147 Macro 36 148–151 Macro 37 152–155 Macro 38 156–159 Macro 39 160–163 Macro 40 164–167 Macro 41 168–255 Reserved
31	Shaper Macros Speed	0	
32	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz 135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz 150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
33	Dimmer	0	0–254 Closed 255–255 Open

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
34	Dimmer Fine	0	Fine byte of Dimmer

Mode 1 - 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	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
6	Control1	0	0–9 No feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–69 NoFeature 7 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–179 Reserved 180–189 Zoom/frost reset 190–199 Barndoors/scrim reset 200–209 Total fixture reset 210–239 Reserved 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max
7	Color Control	0	
8	Color Macro1	0	
9	Red	255	
10	Red Fine	255	Fine byte of Red
11	Green	255	
12	Green Fine	255	Fine byte of Green
13	Blue	255	
14	Blue Fine	255	Fine byte of Blue
15	C TO	0	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 65–65 6600 K 66–109 6578K - > 5622 K 110–110 5600 K 111–179 5580 K - > 4220 K 180–180 4200 K 181–229 4180 K - > 3220 K 230–230 3200 K 231–254 3180 K - > 2720 K 255–255 2700K

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
16	Tint	0	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–254 Uncorrected white - > Plus green 255–255 Uncorrected white
17	Color Mix Mode	0	0–9 Virtual colours (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Colour mix - Virtual) 70–79 White Point Off (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
18	Frost1MSpeed	0	0–0 function is off 1–255 min to max
19	Scrim Pos	0	0–0 No function 1–255 Scrim inserting
20	Scrim Index	0	0–63 Scrim indexing 0 deg 64–127 Scrim indexing 90 deg 128–191 Scrim indexing 180 deg 192–254 Scrim indexing 270 deg 255–255 Scrim indexing 360 deg
21	Frost1	0	
22	Zoom	127	0–254 Zoom max 255–255 Zoom min
23	Zoom Fine	255	Fine byte of Zoom
24	Edge Color Correction	0	
25	Shaper Rot	128	
26	Blade1A	0	
27	Blade2A	0	
28	Blade3A	0	
29	Blade4A	0	

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
30	Shaper Macros	0	0–3 No function 4–7 Macro 1 8–11 Macro 2 12–15 Macro 3 16–19 Macro 4 20–23 Macro 5 24–27 Macro 6 28–31 Macro 7 32–35 Macro 8 36–39 Macro 9 40–43 Macro 10 44–47 Macro 11 48–51 Macro 12 52–55 Macro 13 56–59 Macro 14 60–63 Macro 15 64–67 Macro 16 68–71 Macro 17 72–75 Macro 18 76–79 Macro 19 80–83 Macro 20 84–87 Macro 21 88–91 Macro 22 92–95 Macro 23 96–99 Macro 24 100–103 Macro 25 104–107 Macro 26 108–111 Macro 27 112–115 Macro 28 116–119 Macro 29 120–123 Macro 30 124–127 Macro 31 128–131 Macro 32 132–135 Macro 33 136–139 Macro 34 140–143 Macro 35 144–147 Macro 36 148–151 Macro 37 152–155 Macro 38 156–159 Macro 39 160–163 Macro 40 164–167 Macro 41 168–255 Reserved
31	Shaper Macros Speed	0	
32	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz 135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz 150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
33	Dimmer	0	0–254 Closed 255–255 Open

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
34	Dimmer Fine	0	Fine byte of Dimmer

Mode 3 - Seven Colors

42 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	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
6	Control1	0	0–9 No feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–69 NoFeature 7 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–179 Reserved 180–189 Zoom/frost reset 190–199 Barndoors/scrim reset 200–209 Total fixture reset 210–239 Reserved 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max
7	Color Control	0	
8	Color Macro1	0	
9	Red	255	
10	Red Fine	255	Fine byte of Red
11	Green	255	
12	Green Fine	255	Fine byte of Green
13	Blue	255	
14	Blue Fine	255	Fine byte of Blue
15	Color Add RY	255	
16	Color Add RY Fine	255	Fine byte of Color Add RY
17	Color Add C	255	
18	Color Add C Fine	255	Fine byte of Color Add C
19	UV	255	
20	UV Fine	255	Fine byte of UV
21	Color Add GY	255	
22	Color Add GY Fine	255	Fine byte of Color Add GY

Mode 3 - Seven Colors (continued)

Ch	Function	Default	DMX values
23	C TO	0	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 65–65 6600 K 66–109 6578K - > 5622 K 110–110 5600 K 111–179 5580 K - > 4220 K 180–180 4200 K 181–229 4180 K - > 3220 K 230–230 3200 K 231–254 3180 K - > 2720 K 255–255 2700K
24	Tint	0	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–254 Uncorrected white - > Plus green 255–255 Uncorrected white
25	Color Mix Mode	0	0–9 Virtual colours (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Colour mix - Virtual) 70–79 White Point Off (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
26	Frost1MSpeed	0	0–0 function is off 1–255 min to max
27	Scrim Pos	0	0–0 No function 1–255 Scrim inserting
28	Scrim Index	0	0–63 Scrim indexing 0 deg 64–127 Scrim indexing 90 deg 128–191 Scrim indexing 180 deg 192–254 Scrim indexing 270 deg 255–255 Scrim indexing 360 deg
29	Frost1	0	
30	Zoom	127	0–254 Zoom max 255–255 Zoom min
31	Zoom Fine	255	Fine byte of Zoom
32	Edge Color Correction	0	
33	Shaper Rot	128	
34	Blade1A	0	
35	Blade2A	0	
36	Blade3A	0	
37	Blade4A	0	

Mode 3 - Seven Colors (continued)

Ch	Function	Default	DMX values
38	Shaper Macros	0	0–3 No function 4–7 Macro 1 8–11 Macro 2 12–15 Macro 3 16–19 Macro 4 20–23 Macro 5 24–27 Macro 6 28–31 Macro 7 32–35 Macro 8 36–39 Macro 9 40–43 Macro 10 44–47 Macro 11 48–51 Macro 12 52–55 Macro 13 56–59 Macro 14 60–63 Macro 15 64–67 Macro 16 68–71 Macro 17 72–75 Macro 18 76–79 Macro 19 80–83 Macro 20 84–87 Macro 21 88–91 Macro 22 92–95 Macro 23 96–99 Macro 24 100–103 Macro 25 104–107 Macro 26 108–111 Macro 27 112–115 Macro 28 116–119 Macro 29 120–123 Macro 30 124–127 Macro 31 128–131 Macro 32 132–135 Macro 33 136–139 Macro 34 140–143 Macro 35 144–147 Macro 36 148–151 Macro 37 152–155 Macro 38 156–159 Macro 39 160–163 Macro 40 164–167 Macro 41 168–255 Reserved
39	Shaper Macros Speed	0	
40	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz 135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz 150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
41	Dimmer	0	0–254 Closed 255–255 Open

Mode 3 - Seven Colors (continued)

Ch	Function	Default	DMX values
42	Dimmer Fine	0	Fine byte of Dimmer