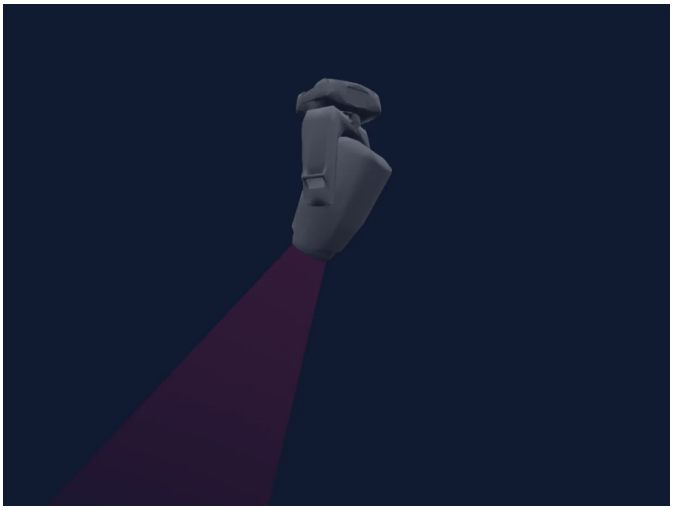
JB-Lighting

P15 Wash HP



Manufacturer	**JB-Lighting**
Type	**Profile spot**
DMX modes	**8**
DMX footprint	**35, 51 channels**
Beam angle	**5.7-60°**
Pan range	**546.74°**
Tilt range	**281.16°**
Size (W × H × D)	**274 × 478 × 247 mm**
GDTF fixture type	**E6E48F24-544E-44D5-9447-38C…**

Controls

Focus · Frost · Iris · Zoom · CMY colour mixing · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pan and tilt · Movement speed

DMX modes

Wash Mode 1 (35 ch) Frame Mode AB CMY	35 ch
Wash Mode 1 (35 ch) Frame Mode AB RGB	35 ch
Wash Mode 1 (35 ch) Frame Mode TA CMY	35 ch
Wash Mode 1 (35 ch) Frame Mode TA RGB	35 ch
Wash Mode 2 (51 ch) Frame Mode AB CMY	51 ch
Wash Mode 2 (51 ch) Frame Mode AB RGB	51 ch
Wash Mode 2 (51 ch) Frame Mode TA CMY	51 ch
Wash Mode 2 (51 ch) Frame Mode TA RGB	51 ch

Wash Mode 1 (35 ch) Frame Mode AB CMY

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	
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) 224–237 rnd pulse close fast 238–238 rnd pulse close slow 239–239 open (7) 240–253 rnd pulse open fast 254–254 rnd pulse open slow 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	Focus	0	0–127 min 128–254 medium 255–255 max

Wash Mode 1 (35 ch) Frame Mode AB CMY (continued)

Ch	Function	Default	DMX values
9	Zoom	38	0–127 narrow 128–254 medium 255–255 wide
10	No Feature2	128	
11	Iris	0	0–254 open 255–255 closed
12	Blade1A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
13	Blade1B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
14	Blade2A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
15	Blade2B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
16	Blade3A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
17	Blade3B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%

Wash Mode 1 (35 ch) Frame Mode AB CMY (continued)

Ch	Function	Default	DMX values
18	Blade4A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
19	Blade4B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
20	Shaper Rot	128	0–9 -65 10–19 -60 20–28 -55 29–38 -50 39–48 -45 49–58 -40 59–68 -35 69–77 -30 78–87 -25 88–97 -20 98–107 -15 108–117 -10 118–127 -5 128–136 0 137–146 5 147–156 10 157–166 15 167–176 20 177–185 25 186–195 30 196–205 35 206–215 40 216–225 45 226–234 50 235–244 55 245–254 60 255–255 65

Wash Mode 1 (35 ch) Frame Mode AB CMY (continued)

Ch	Function	Default	DMX values
21	Color Wheel	0	0–1 open (wheel slot 1) 2–3 white / red (wheel slot 1) 4–5 red (wheel slot 2) 6–7 red / yellow (wheel slot 2) 8–9 yellow (wheel slot 3) 10–11 yellow / magenta (wheel slot 3) 12–13 magenta (wheel slot 4) 14–15 magenta / green (wheel slot 4) 16–17 green (wheel slot 5) 18–19 green / orange (wheel slot 5) 20–21 orange (wheel slot 6) 22–23 orange / blue (wheel slot 6) 24–25 blue (wheel slot 7) 26–27 blue / hcri (wheel slot 7) 28–29 hcri (wheel slot 8) 30–31 hcri / ctb (wheel slot 8) 32–33 ctb (wheel slot 9) 34–63 ctb / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 red (wheel slot 2) 90–101 yellow (wheel slot 3) 102–114 magenta (wheel slot 4) 115–127 green (wheel slot 5) 128–140 orange (wheel slot 6) 141–153 blue (wheel slot 7) 154–165 hcri (wheel slot 8) 166–178 ctb (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
22	Cyan	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
23	Magenta	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
24	Yellow	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
25	No Feature	128	
26	C TO	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
27	C TC	68	

Wash Mode 1 (35 ch) Frame Mode AB CMY (continued)

Ch	Function	Default	DMX values
28	Tint	128	0–0 Black Body Shift Off 1–1 -100 Minus Green 2–126 Minus Green 127–127 -1 Minus Green 128–128 Neutral 129–129 +1 Plus Green 130–254 Plus Green 255–255 +100 Plus Green
29	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
30	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast
31	Frost1	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
32	Dummy	128	
33	Position MSpeed	0	0–3 real time movement 4–254 movement fast 255–255 movement slow
34	Global MSpeed	0	0–3 realtime effects 4–254 effects fast 255–255 effects slow
35	Blackout Mode	0	0–95 no bo 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at go co pr cmy ir fr slow 159–159 bo at go co pr cmy ir fr fast 160–190 bo at go co pr cmy ir fr fo zo slow 191–191 bo at go co pr cmy ir fr fo zo fast 192–222 bo at go co pr cmy ir fr p/t slow 223–223 bo at go co pr cmy ir fr p/t fast 224–254 bo at go co pr cmy ir fr fo zo p/t slow 255–255 bo at go co pr cmy ir fr fo zo p/t fast

Wash Mode 1 (35 ch) Frame Mode AB RGB

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	
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) 224–237 rnd pulse close fast 238–238 rnd pulse close slow 239–239 open (7) 240–253 rnd pulse open fast 254–254 rnd pulse open slow 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	Focus	0	0–127 min 128–254 medium 255–255 max

Wash Mode 1 (35 ch) Frame Mode AB RGB (continued)

Ch	Function	Default	DMX values
9	Zoom	38	0–127 narrow 128–254 medium 255–255 wide
10	No Feature2	128	
11	Iris	0	0–254 open 255–255 closed
12	Blade1A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
13	Blade1B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
14	Blade2A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
15	Blade2B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
16	Blade3A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
17	Blade3B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%

Wash Mode 1 (35 ch) Frame Mode AB RGB (continued)

Ch	Function	Default	DMX values
18	Blade4A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
19	Blade4B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
20	Shaper Rot	128	0–9 -65 10–19 -60 20–28 -55 29–38 -50 39–48 -45 49–58 -40 59–68 -35 69–77 -30 78–87 -25 88–97 -20 98–107 -15 108–117 -10 118–127 -5 128–136 0 137–146 5 147–156 10 157–166 15 167–176 20 177–185 25 186–195 30 196–205 35 206–215 40 216–225 45 226–234 50 235–244 55 245–254 60 255–255 65

Wash Mode 1 (35 ch) Frame Mode AB RGB (continued)

Ch	Function	Default	DMX values
21	Color Wheel	0	0–1 open (wheel slot 1) 2–3 white / red (wheel slot 1) 4–5 red (wheel slot 2) 6–7 red / yellow (wheel slot 2) 8–9 yellow (wheel slot 3) 10–11 yellow / magenta (wheel slot 3) 12–13 magenta (wheel slot 4) 14–15 magenta / green (wheel slot 4) 16–17 green (wheel slot 5) 18–19 green / orange (wheel slot 5) 20–21 orange (wheel slot 6) 22–23 orange / blue (wheel slot 6) 24–25 blue (wheel slot 7) 26–27 blue / hcri (wheel slot 7) 28–29 hcri (wheel slot 8) 30–31 hcri / ctb (wheel slot 8) 32–33 ctb (wheel slot 9) 34–63 ctb / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 red (wheel slot 2) 90–101 yellow (wheel slot 3) 102–114 magenta (wheel slot 4) 115–127 green (wheel slot 5) 128–140 orange (wheel slot 6) 141–153 blue (wheel slot 7) 154–165 hcri (wheel slot 8) 166–178 ctb (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
22	Red	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
23	Green	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
24	Blue	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
25	Colorfulness	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
26	C TO	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
27	C TC	68	

Wash Mode 1 (35 ch) Frame Mode AB RGB (continued)

Ch	Function	Default	DMX values
28	Tint	128	0–0 Black Body Shift Off 1–1 -100 Minus Green 2–126 Minus Green 127–127 -1 Minus Green 128–128 Neutral 129–129 +1 Plus Green 130–254 Plus Green 255–255 +100 Plus Green
29	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
30	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast
31	Frost1	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
32	Dummy	128	
33	Position MSpeed	0	0–3 real time movement 4–254 movement fast 255–255 movement slow
34	Global MSpeed	0	0–3 realtime effects 4–254 effects fast 255–255 effects slow
35	Blackout Mode	0	0–95 no bo 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at go co pr cmy ir fr slow 159–159 bo at go co pr cmy ir fr fast 160–190 bo at go co pr cmy ir fr fo zo slow 191–191 bo at go co pr cmy ir fr fo zo fast 192–222 bo at go co pr cmy ir fr p/t slow 223–223 bo at go co pr cmy ir fr p/t fast 224–254 bo at go co pr cmy ir fr fo zo p/t slow 255–255 bo at go co pr cmy ir fr fo zo p/t fast

Wash Mode 1 (35 ch) Frame Mode TA CMY

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	
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) 224–237 rnd pulse close fast 238–238 rnd pulse close slow 239–239 open (7) 240–253 rnd pulse open fast 254–254 rnd pulse open slow 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	Focus	0	0–127 min 128–254 medium 255–255 max

Wash Mode 1 (35 ch) Frame Mode TA CMY (continued)

Ch	Function	Default	DMX values
9	Zoom	38	0–127 narrow 128–254 medium 255–255 wide
10	No Feature2	128	
11	Iris	0	0–254 open 255–255 closed
12	Blade1A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
13	Blade1Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
14	Blade2A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
15	Blade2Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
16	Blade3A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
17	Blade3Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
18	Blade4A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%

Wash Mode 1 (35 ch) Frame Mode TA CMY (continued)

Ch	Function	Default	DMX values
19	Blade4Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
20	Shaper Rot	128	0–9 -65 10–19 -60 20–28 -55 29–38 -50 39–48 -45 49–58 -40 59–68 -35 69–77 -30 78–87 -25 88–97 -20 98–107 -15 108–117 -10 118–127 -5 128–136 0 137–146 5 147–156 10 157–166 15 167–176 20 177–185 25 186–195 30 196–205 35 206–215 40 216–225 45 226–234 50 235–244 55 245–254 60 255–255 65

Wash Mode 1 (35 ch) Frame Mode TA CMY (continued)

Ch	Function	Default	DMX values
21	Color Wheel	0	0–1 open (wheel slot 1) 2–3 white / red (wheel slot 1) 4–5 red (wheel slot 2) 6–7 red / yellow (wheel slot 2) 8–9 yellow (wheel slot 3) 10–11 yellow / magenta (wheel slot 3) 12–13 magenta (wheel slot 4) 14–15 magenta / green (wheel slot 4) 16–17 green (wheel slot 5) 18–19 green / orange (wheel slot 5) 20–21 orange (wheel slot 6) 22–23 orange / blue (wheel slot 6) 24–25 blue (wheel slot 7) 26–27 blue / hcri (wheel slot 7) 28–29 hcri (wheel slot 8) 30–31 hcri / ctb (wheel slot 8) 32–33 ctb (wheel slot 9) 34–63 ctb / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 red (wheel slot 2) 90–101 yellow (wheel slot 3) 102–114 magenta (wheel slot 4) 115–127 green (wheel slot 5) 128–140 orange (wheel slot 6) 141–153 blue (wheel slot 7) 154–165 hcri (wheel slot 8) 166–178 ctb (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
22	Cyan	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
23	Magenta	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
24	Yellow	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
25	No Feature	128	
26	C TO	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
27	C TC	68	

Wash Mode 1 (35 ch) Frame Mode TA CMY (continued)

Ch	Function	Default	DMX values
28	Tint	128	0–0 Black Body Shift Off 1–1 -100 Minus Green 2–126 Minus Green 127–127 -1 Minus Green 128–128 Neutral 129–129 +1 Plus Green 130–254 Plus Green 255–255 +100 Plus Green
29	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
30	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast
31	Frost1	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
32	Dummy	128	
33	Position MSpeed	0	0–3 real time movement 4–254 movement fast 255–255 movement slow
34	Global MSpeed	0	0–3 realtime effects 4–254 effects fast 255–255 effects slow
35	Blackout Mode	0	0–95 no bo 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at go co pr cmy ir fr slow 159–159 bo at go co pr cmy ir fr fast 160–190 bo at go co pr cmy ir fr fo zo slow 191–191 bo at go co pr cmy ir fr fo zo fast 192–222 bo at go co pr cmy ir fr p/t slow 223–223 bo at go co pr cmy ir fr p/t fast 224–254 bo at go co pr cmy ir fr fo zo p/t slow 255–255 bo at go co pr cmy ir fr fo zo p/t fast

Wash Mode 1 (35 ch) Frame Mode TA RGB

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	
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) 224–237 rnd pulse close fast 238–238 rnd pulse close slow 239–239 open (7) 240–253 rnd pulse open fast 254–254 rnd pulse open slow 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	Focus	0	0–127 min 128–254 medium 255–255 max

Wash Mode 1 (35 ch) Frame Mode TA RGB (continued)

Ch	Function	Default	DMX values
9	Zoom	38	0–127 narrow 128–254 medium 255–255 wide
10	No Feature2	128	
11	Iris	0	0–254 open 255–255 closed
12	Blade1A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
13	Blade1Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
14	Blade2A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
15	Blade2Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
16	Blade3A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
17	Blade3Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
18	Blade4A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%

Wash Mode 1 (35 ch) Frame Mode TA RGB (continued)

Ch	Function	Default	DMX values
19	Blade4Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
20	Shaper Rot	128	0–9 -65 10–19 -60 20–28 -55 29–38 -50 39–48 -45 49–58 -40 59–68 -35 69–77 -30 78–87 -25 88–97 -20 98–107 -15 108–117 -10 118–127 -5 128–136 0 137–146 5 147–156 10 157–166 15 167–176 20 177–185 25 186–195 30 196–205 35 206–215 40 216–225 45 226–234 50 235–244 55 245–254 60 255–255 65

Wash Mode 1 (35 ch) Frame Mode TA RGB (continued)

Ch	Function	Default	DMX values
21	Color Wheel	0	0–1 open (wheel slot 1) 2–3 white / red (wheel slot 1) 4–5 red (wheel slot 2) 6–7 red / yellow (wheel slot 2) 8–9 yellow (wheel slot 3) 10–11 yellow / magenta (wheel slot 3) 12–13 magenta (wheel slot 4) 14–15 magenta / green (wheel slot 4) 16–17 green (wheel slot 5) 18–19 green / orange (wheel slot 5) 20–21 orange (wheel slot 6) 22–23 orange / blue (wheel slot 6) 24–25 blue (wheel slot 7) 26–27 blue / hcri (wheel slot 7) 28–29 hcri (wheel slot 8) 30–31 hcri / ctb (wheel slot 8) 32–33 ctb (wheel slot 9) 34–63 ctb / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 red (wheel slot 2) 90–101 yellow (wheel slot 3) 102–114 magenta (wheel slot 4) 115–127 green (wheel slot 5) 128–140 orange (wheel slot 6) 141–153 blue (wheel slot 7) 154–165 hcri (wheel slot 8) 166–178 ctb (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
22	Red	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
23	Green	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
24	Blue	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
25	Colorfulness	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
26	C TO	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
27	C TC	68	

Wash Mode 1 (35 ch) Frame Mode TA RGB (continued)

Ch	Function	Default	DMX values
28	Tint	128	0–0 Black Body Shift Off 1–1 -100 Minus Green 2–126 Minus Green 127–127 -1 Minus Green 128–128 Neutral 129–129 +1 Plus Green 130–254 Plus Green 255–255 +100 Plus Green
29	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
30	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast
31	Frost1	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
32	Dummy	128	
33	Position MSpeed	0	0–3 real time movement 4–254 movement fast 255–255 movement slow
34	Global MSpeed	0	0–3 realtime effects 4–254 effects fast 255–255 effects slow
35	Blackout Mode	0	0–95 no bo 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at go co pr cmy ir fr slow 159–159 bo at go co pr cmy ir fr fast 160–190 bo at go co pr cmy ir fr fo zo slow 191–191 bo at go co pr cmy ir fr fo zo fast 192–222 bo at go co pr cmy ir fr p/t slow 223–223 bo at go co pr cmy ir fr p/t fast 224–254 bo at go co pr cmy ir fr fo zo p/t slow 255–255 bo at go co pr cmy ir fr fo zo p/t fast

Wash Mode 2 (51 ch) Frame Mode AB CMY

51 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) 224–237 rnd pulse close fast 238–238 rnd pulse close slow 239–239 open (7) 240–253 rnd pulse open fast 254–254 rnd pulse open slow 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	Focus	0	0–126 min 127–254 medium 255–255 max

Wash Mode 2 (51 ch) Frame Mode AB CMY (continued)

Ch	Function	Default	DMX values
10	Focus Fine	0	Fine byte of Focus
11	Zoom	38	0–127 narrow 128–254 medium 255–255 wide
12	Zoom Fine	37	Fine byte of Zoom
13	No Feature2	128	
14	Iris	0	0–254 open 255–255 closed
15	Iris Fine	0	Fine byte of Iris
16	Blade1A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
17	Blade1A Fine	0	Fine byte of Blade1A
18	Blade1B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
19	Blade1B Fine	0	Fine byte of Blade1B
20	Blade2A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
21	Blade2A Fine	0	Fine byte of Blade2A
22	Blade2B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
23	Blade2B Fine	0	Fine byte of Blade2B
24	Blade3A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
25	Blade3A Fine	0	Fine byte of Blade3A

Wash Mode 2 (51 ch) Frame Mode AB CMY (continued)

Ch	Function	Default	DMX values
26	Blade3B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
27	Blade3B Fine	0	Fine byte of Blade3B
28	Blade4A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
29	Blade4A Fine	0	Fine byte of Blade4A
30	Blade4B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
31	Blade4B Fine	0	Fine byte of Blade4B
32	Shaper Rot	128	0–8 -65 9–18 -60 19–28 -55 29–38 -50 39–48 -45 49–58 -40 59–67 -35 68–77 -30 78–87 -25 88–97 -20 98–107 -15 108–117 -10 118–127 -5 128–136 0 137–146 5 147–156 10 157–166 15 167–176 20 177–186 25 187–195 30 196–205 35 206–215 40 216–225 45 226–235 50 236–245 55 246–254 60 255–255 65
33	Shaper Rot Fine	128	Fine byte of Shaper Rot

Wash Mode 2 (51 ch) Frame Mode AB CMY (continued)

Ch	Function	Default	DMX values
34	Color Wheel	0	0–1 open (wheel slot 1) 2–3 white / red (wheel slot 1) 4–5 red (wheel slot 2) 6–7 red / yellow (wheel slot 2) 8–9 yellow (wheel slot 3) 10–11 yellow / magenta (wheel slot 3) 12–13 magenta (wheel slot 4) 14–15 magenta / green (wheel slot 4) 16–17 green (wheel slot 5) 18–19 green / orange (wheel slot 5) 20–21 orange (wheel slot 6) 22–23 orange / blue (wheel slot 6) 24–25 blue (wheel slot 7) 26–27 blue / hcri (wheel slot 7) 28–29 hcri (wheel slot 8) 30–31 hcri / ctb (wheel slot 8) 32–33 ctb (wheel slot 9) 34–63 ctb / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 red (wheel slot 2) 90–101 yellow (wheel slot 3) 102–114 magenta (wheel slot 4) 115–127 green (wheel slot 5) 128–140 orange (wheel slot 6) 141–153 blue (wheel slot 7) 154–165 hcri (wheel slot 8) 166–178 ctb (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
35	Cyan	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
36	Cyan Fine	0	Fine byte of Cyan
37	Magenta	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
38	Magenta Fine	0	Fine byte of Magenta
39	Yellow	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
40	Yellow Fine	0	Fine byte of Yellow
41	No Feature	128	
42	No Feature Fine	128	Fine byte of No Feature
43	C TO	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
44	C TO Fine	0	Fine byte of C TO
45	C TC	68	

Wash Mode 2 (51 ch) Frame Mode AB CMY (continued)

Ch	Function	Default	DMX values
46	Tint	128	0–0 Black Body Shift Off 1–1 -100 Minus Green 2–126 Minus Green 127–127 -1 Minus Green 128–128 Neutral 129–129 +1 Plus Green 130–254 Plus Green 255–255 +100 Plus Green
47	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
48	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast
49	Frost1	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
50	Dummy	128	
51	Blackout Mode	0	0–95 no bo 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at go co pr cmy ir fr slow 159–159 bo at go co pr cmy ir fr fast 160–190 bo at go co pr cmy ir fr fo zo slow 191–191 bo at go co pr cmy ir fr fo zo fast 192–222 bo at go co pr cmy ir fr p/t slow 223–223 bo at go co pr cmy ir fr p/t fast 224–254 bo at go co pr cmy ir fr fo zo p/t slow 255–255 bo at go co pr cmy ir fr fo zo p/t fast

Wash Mode 2 (51 ch) Frame Mode AB RGB

51 channels

Ch	Function	Default	DMX values
1	Pan	128	

Wash Mode 2 (51 ch) Frame Mode AB RGB (continued)

Ch	Function	Default	DMX values
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) 224–237 rnd pulse close fast 238–238 rnd pulse close slow 239–239 open (7) 240–253 rnd pulse open fast 254–254 rnd pulse open slow 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	Focus	0	0–126 min 127–254 medium 255–255 max
10	Focus Fine	0	Fine byte of Focus

Wash Mode 2 (51 ch) Frame Mode AB RGB (continued)

Ch	Function	Default	DMX values
11	Zoom	38	0–127 narrow 128–254 medium 255–255 wide
12	Zoom Fine	37	Fine byte of Zoom
13	No Feature2	128	
14	Iris	0	0–254 open 255–255 closed
15	Iris Fine	0	Fine byte of Iris
16	Blade1A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
17	Blade1A Fine	0	Fine byte of Blade1A
18	Blade1B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
19	Blade1B Fine	0	Fine byte of Blade1B
20	Blade2A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
21	Blade2A Fine	0	Fine byte of Blade2A
22	Blade2B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
23	Blade2B Fine	0	Fine byte of Blade2B
24	Blade3A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
25	Blade3A Fine	0	Fine byte of Blade3A

Wash Mode 2 (51 ch) Frame Mode AB RGB (continued)

Ch	Function	Default	DMX values
26	Blade3B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
27	Blade3B Fine	0	Fine byte of Blade3B
28	Blade4A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
29	Blade4A Fine	0	Fine byte of Blade4A
30	Blade4B	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
31	Blade4B Fine	0	Fine byte of Blade4B
32	Shaper Rot	128	0–8 -65 9–18 -60 19–28 -55 29–38 -50 39–48 -45 49–58 -40 59–67 -35 68–77 -30 78–87 -25 88–97 -20 98–107 -15 108–117 -10 118–127 -5 128–136 0 137–146 5 147–156 10 157–166 15 167–176 20 177–186 25 187–195 30 196–205 35 206–215 40 216–225 45 226–235 50 236–245 55 246–254 60 255–255 65
33	Shaper Rot Fine	128	Fine byte of Shaper Rot

Wash Mode 2 (51 ch) Frame Mode AB RGB (continued)

Ch	Function	Default	DMX values
34	Color Wheel	0	0–1 open (wheel slot 1) 2–3 white / red (wheel slot 1) 4–5 red (wheel slot 2) 6–7 red / yellow (wheel slot 2) 8–9 yellow (wheel slot 3) 10–11 yellow / magenta (wheel slot 3) 12–13 magenta (wheel slot 4) 14–15 magenta / green (wheel slot 4) 16–17 green (wheel slot 5) 18–19 green / orange (wheel slot 5) 20–21 orange (wheel slot 6) 22–23 orange / blue (wheel slot 6) 24–25 blue (wheel slot 7) 26–27 blue / hcri (wheel slot 7) 28–29 hcri (wheel slot 8) 30–31 hcri / ctb (wheel slot 8) 32–33 ctb (wheel slot 9) 34–63 ctb / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 red (wheel slot 2) 90–101 yellow (wheel slot 3) 102–114 magenta (wheel slot 4) 115–127 green (wheel slot 5) 128–140 orange (wheel slot 6) 141–153 blue (wheel slot 7) 154–165 hcri (wheel slot 8) 166–178 ctb (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
35	Red	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
36	Red Fine	255	Fine byte of Red
37	Green	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
38	Green Fine	255	Fine byte of Green
39	Blue	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
40	Blue Fine	255	Fine byte of Blue
41	Colorfulness	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
42	Colorfulness Fine	0	Fine byte of Colorfulness

Wash Mode 2 (51 ch) Frame Mode AB RGB (continued)

Ch	Function	Default	DMX values
43	C TO	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
44	C TO Fine	0	Fine byte of C TO
45	C TC	68	
46	Tint	128	0–0 Black Body Shift Off 1–1 -100 Minus Green 2–126 Minus Green 127–127 -1 Minus Green 128–128 Neutral 129–129 +1 Plus Green 130–254 Plus Green 255–255 +100 Plus Green
47	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
48	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast
49	Frost1	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
50	Dummy	128	

Wash Mode 2 (51 ch) Frame Mode AB RGB (continued)

Ch	Function	Default	DMX values
51	Blackout Mode	0	0–95 no bo 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at go co pr cmy ir fr slow 159–159 bo at go co pr cmy ir fr fast 160–190 bo at go co pr cmy ir fr fo zo slow 191–191 bo at go co pr cmy ir fr fo zo fast 192–222 bo at go co pr cmy ir fr p/t slow 223–223 bo at go co pr cmy ir fr p/t fast 224–254 bo at go co pr cmy ir fr fo zo p/t slow 255–255 bo at go co pr cmy ir fr fo zo p/t fast

Wash Mode 2 (51 ch) Frame Mode TA CMY

51 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) 224–237 rnd pulse close fast 238–238 rnd pulse close slow 239–239 open (7) 240–253 rnd pulse open fast 254–254 rnd pulse open slow 255–255 open (8)

Wash Mode 2 (51 ch) Frame Mode TA CMY (continued)

Ch	Function	Default	DMX values
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	Focus	0	0–126 min 127–254 medium 255–255 max
10	Focus Fine	0	Fine byte of Focus
11	Zoom	38	0–127 narrow 128–254 medium 255–255 wide
12	Zoom Fine	37	Fine byte of Zoom
13	No Feature2	128	
14	Iris	0	0–254 open 255–255 closed
15	Iris Fine	0	Fine byte of Iris
16	Blade1A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
17	Blade1A Fine	0	Fine byte of Blade1A
18	Blade1Rot	128	0–41 max ccw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
19	Blade1Rot Fine	0	Fine byte of Blade1Rot
20	Blade2A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
21	Blade2A Fine	0	Fine byte of Blade2A

Wash Mode 2 (51 ch) Frame Mode TA CMY (continued)

Ch	Function	Default	DMX values
22	Blade2Rot	128	0–41 max ccw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
23	Blade2Rot Fine	0	Fine byte of Blade2Rot
24	Blade3A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
25	Blade3A Fine	0	Fine byte of Blade3A
26	Blade3Rot	128	0–41 max cw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
27	Blade3Rot Fine	0	Fine byte of Blade3Rot
28	Blade4A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
29	Blade4A Fine	0	Fine byte of Blade4A
30	Blade4Rot	128	0–41 max ccw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
31	Blade4Rot Fine	0	Fine byte of Blade4Rot

Wash Mode 2 (51 ch) Frame Mode TA CMY (continued)

Ch	Function	Default	DMX values
32	Shaper Rot	128	0–8 -65 9–18 -60 19–28 -55 29–38 -50 39–48 -45 49–58 -40 59–67 -35 68–77 -30 78–87 -25 88–97 -20 98–107 -15 108–117 -10 118–127 -5 128–136 0 137–146 5 147–156 10 157–166 15 167–176 20 177–186 25 187–195 30 196–205 35 206–215 40 216–225 45 226–235 50 236–245 55 246–254 60 255–255 65
33	Shaper Rot Fine	128	Fine byte of Shaper Rot
34	Color Wheel	0	0–1 open (wheel slot 1) 2–3 white / red (wheel slot 1) 4–5 red (wheel slot 2) 6–7 red / yellow (wheel slot 2) 8–9 yellow (wheel slot 3) 10–11 yellow / magenta (wheel slot 3) 12–13 magenta (wheel slot 4) 14–15 magenta / green (wheel slot 4) 16–17 green (wheel slot 5) 18–19 green / orange (wheel slot 5) 20–21 orange (wheel slot 6) 22–23 orange / blue (wheel slot 6) 24–25 blue (wheel slot 7) 26–27 blue / hcri (wheel slot 7) 28–29 hcri (wheel slot 8) 30–31 hcri / ctb (wheel slot 8) 32–33 ctb (wheel slot 9) 34–63 ctb / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 red (wheel slot 2) 90–101 yellow (wheel slot 3) 102–114 magenta (wheel slot 4) 115–127 green (wheel slot 5) 128–140 orange (wheel slot 6) 141–153 blue (wheel slot 7) 154–165 hcri (wheel slot 8) 166–178 ctb (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast

Wash Mode 2 (51 ch) Frame Mode TA CMY (continued)

Ch	Function	Default	DMX values
35	Cyan	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
36	Cyan Fine	0	Fine byte of Cyan
37	Magenta	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
38	Magenta Fine	0	Fine byte of Magenta
39	Yellow	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
40	Yellow Fine	0	Fine byte of Yellow
41	No Feature	128	
42	No Feature Fine	128	Fine byte of No Feature
43	C TO	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
44	C TO Fine	0	Fine byte of C TO
45	C TC	68	
46	Tint	128	0–0 Black Body Shift Off 1–1 -100 Minus Green 2–126 Minus Green 127–127 -1 Minus Green 128–128 Neutral 129–129 +1 Plus Green 130–254 Plus Green 255–255 +100 Plus Green
47	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle

Wash Mode 2 (51 ch) Frame Mode TA CMY (continued)

Ch	Function	Default	DMX values
48	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast
49	Frost1	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
50	Dummy	128	
51	Blackout Mode	0	0–95 no bo 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at go co pr cmy ir fr slow 159–159 bo at go co pr cmy ir fr fast 160–190 bo at go co pr cmy ir fr fo zo slow 191–191 bo at go co pr cmy ir fr fo zo fast 192–222 bo at go co pr cmy ir fr p/t slow 223–223 bo at go co pr cmy ir fr p/t fast 224–254 bo at go co pr cmy ir fr fo zo p/t slow 255–255 bo at go co pr cmy ir fr fo zo p/t fast

Wash Mode 2 (51 ch) Frame Mode TA RGB

51 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	

Wash Mode 2 (51 ch) Frame Mode TA RGB (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) 224–237 rnd pulse close fast 238–238 rnd pulse close slow 239–239 open (7) 240–253 rnd pulse open fast 254–254 rnd pulse open slow 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	Focus	0	0–126 min 127–254 medium 255–255 max
10	Focus Fine	0	Fine byte of Focus
11	Zoom	38	0–127 narrow 128–254 medium 255–255 wide
12	Zoom Fine	37	Fine byte of Zoom
13	No Feature2	128	

Wash Mode 2 (51 ch) Frame Mode TA RGB (continued)

Ch	Function	Default	DMX values
14	Iris	0	0–254 open 255–255 closed
15	Iris Fine	0	Fine byte of Iris
16	Blade1A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
17	Blade1A Fine	0	Fine byte of Blade1A
18	Blade1Rot	128	0–41 max ccw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
19	Blade1Rot Fine	0	Fine byte of Blade1Rot
20	Blade2A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
21	Blade2A Fine	0	Fine byte of Blade2A
22	Blade2Rot	128	0–41 max ccw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
23	Blade2Rot Fine	0	Fine byte of Blade2Rot
24	Blade3A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
25	Blade3A Fine	0	Fine byte of Blade3A
26	Blade3Rot	128	0–41 max cw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
27	Blade3Rot Fine	0	Fine byte of Blade3Rot

Wash Mode 2 (51 ch) Frame Mode TA RGB (continued)

Ch	Function	Default	DMX values
28	Blade4A	0	0–35 min 36–72 10% 73–108 20% 109–145 30% 146–181 40% 182–218 50% 219–254 60% 255–255 70%
29	Blade4A Fine	0	Fine byte of Blade4A
30	Blade4Rot	128	0–41 max ccw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
31	Blade4Rot Fine	0	Fine byte of Blade4Rot
32	Shaper Rot	128	0–8 -65 9–18 -60 19–28 -55 29–38 -50 39–48 -45 49–58 -40 59–67 -35 68–77 -30 78–87 -25 88–97 -20 98–107 -15 108–117 -10 118–127 -5 128–136 0 137–146 5 147–156 10 157–166 15 167–176 20 177–186 25 187–195 30 196–205 35 206–215 40 216–225 45 226–235 50 236–245 55 246–254 60 255–255 65
33	Shaper Rot Fine	128	Fine byte of Shaper Rot

Wash Mode 2 (51 ch) Frame Mode TA RGB (continued)

Ch	Function	Default	DMX values
34	Color Wheel	0	0–1 open (wheel slot 1) 2–3 white / red (wheel slot 1) 4–5 red (wheel slot 2) 6–7 red / yellow (wheel slot 2) 8–9 yellow (wheel slot 3) 10–11 yellow / magenta (wheel slot 3) 12–13 magenta (wheel slot 4) 14–15 magenta / green (wheel slot 4) 16–17 green (wheel slot 5) 18–19 green / orange (wheel slot 5) 20–21 orange (wheel slot 6) 22–23 orange / blue (wheel slot 6) 24–25 blue (wheel slot 7) 26–27 blue / hcri (wheel slot 7) 28–29 hcri (wheel slot 8) 30–31 hcri / ctb (wheel slot 8) 32–33 ctb (wheel slot 9) 34–63 ctb / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 red (wheel slot 2) 90–101 yellow (wheel slot 3) 102–114 magenta (wheel slot 4) 115–127 green (wheel slot 5) 128–140 orange (wheel slot 6) 141–153 blue (wheel slot 7) 154–165 hcri (wheel slot 8) 166–178 ctb (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
35	Red	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
36	Red Fine	255	Fine byte of Red
37	Green	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
38	Green Fine	255	Fine byte of Green
39	Blue	255	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
40	Blue Fine	255	Fine byte of Blue
41	Colorfulness	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
42	Colorfulness Fine	0	Fine byte of Colorfulness

Wash Mode 2 (51 ch) Frame Mode TA RGB (continued)

Ch	Function	Default	DMX values
43	C TO	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
44	C TO Fine	0	Fine byte of C TO
45	C TC	68	
46	Tint	128	0–0 Black Body Shift Off 1–1 -100 Minus Green 2–126 Minus Green 127–127 -1 Minus Green 128–128 Neutral 129–129 +1 Plus Green 130–254 Plus Green 255–255 +100 Plus Green
47	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
48	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast
49	Frost1	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
50	Dummy	128	

Wash Mode 2 (51 ch) Frame Mode TA RGB (continued)

Ch	Function	Default	DMX values
51	Blackout Mode	0	0–95 no bo 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at go co pr cmy ir fr slow 159–159 bo at go co pr cmy ir fr fast 160–190 bo at go co pr cmy ir fr fo zo slow 191–191 bo at go co pr cmy ir fr fo zo fast 192–222 bo at go co pr cmy ir fr p/t slow 223–223 bo at go co pr cmy ir fr p/t fast 224–254 bo at go co pr cmy ir fr fo zo p/t slow 255–255 bo at go co pr cmy ir fr fo zo p/t fast