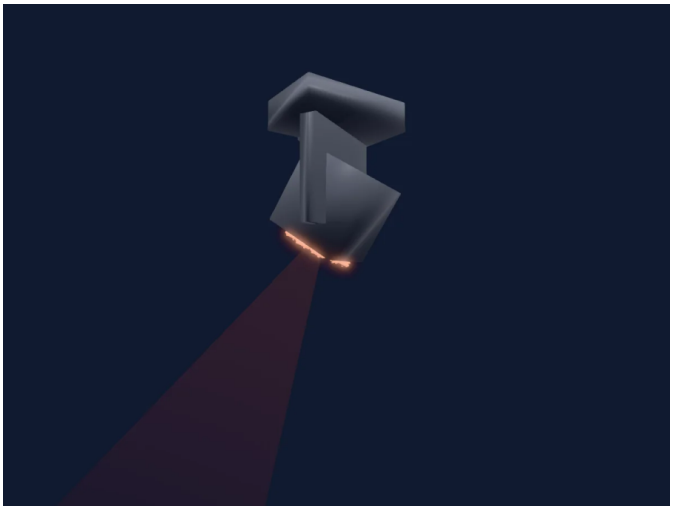
Brighter

X-DOT Max



Manufacturer	**Brighter**
Type	**Moving head**
DMX modes	**12**
DMX footprint	**27, 28, 35, 40, 97 channels**
Beam angle	**4-60°**
Pan range	**540°**
Tilt range	**210°**
Heads / cells	**5**
Size (W × H × D)	**280 × 300 × 280 mm**
GDTF fixture type	**468054A8-9501-47AF-94CB-E8…**

Controls

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

Safety-relevant functions

Fixture reset

DMX modes

252Ch	27 ch
252Ch-Virtual White	27 ch
99Ch	27 ch
99Ch-Virtual White	27 ch
28Ch	28 ch
28Ch-Virtual White	28 ch
35Ch	35 ch
35Ch-Virtual White	35 ch
40Ch	40 ch
40Ch-Virtual White	40 ch
322Ch	97 ch
322CH-Virtual White	97 ch

252Ch

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	Zoom	0	0–254 Narrow 255–255 Wide
7	Shape Fade	0	
8	Zoom Pos	192	0–31 0 deg 32–63 15 deg 64–95 30 deg 96–126 45 deg 127–127 60 deg 128–140 x5 Rot Zoom<< 141–152 x4 Rot Zoom<< 153–165 x3 Rot Zoom<< 166–177 x2 Rot Zoom<< 178–191 x1 Rot Zoom<< 192–192 Rot Zoom>< 193–205 x1 Rot Zoom>> 206–217 x2 Rot Zoom>> 218–230 x3 Rot Zoom>> 231–242 x4 Rot Zoom>> 243–255 x5 Rot Zoom>>
9	Control1	0	0–0 Menu Set 1–10 NoFeature 11–16 Dimmer Smooth 17–21 Dimmer Fast 22–26 LED 400Hz 27–31 LED 1200Hz 32–36 LED 2000Hz 37–41 LED 4000Hz 42–46 LED 6000Hz 47–51 LED 8000Hz 52–56 LED 16000Hz 57–61 LED 24000Hz 62–126 NoFeature 1 127–131 DMX Hold 132–136 DMX Blackout 137–141 Virtual White On 142–146 Virtual White Off 147–200 NoFeature 2 201–215 Zoom Reset 216–230 Position Reset 231–245 Reset 246–255 NoFeature 3
10	Dimmer	0	0–254 Closed 255–255 Open
11	Dimmer Fine	0	Fine byte of Dimmer
12	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
13	Red	255	
14	Green	255	

252Ch (continued)

Ch	Function	Default	DMX values
15	Blue	255	
16	Color Add GY	255	
17	Shape Selection	0	0–15 Off 16–20 Macro1 21–27 Macro2 28–33 Macro3 34–39 Macro4 40–45 Macro5 46–51 Macro6 52–57 Macro7 58–63 Macro8 64–69 Macro9 70–75 Macro10 76–81 Macro11 82–87 Macro12 88–93 Macro13 94–99 Macro14 100–105 Macro15 106–111 Macro16 112–117 Macro 17 118–123 Macro 18 124–129 Macro 19 130–135 Macro 20 136–141 Macro 21 142–147 Macro 22 148–153 Macro 23 154–159 Macro 24 160–165 Macro 25 166–171 Macro 26 172–177 Macro 27 178–183 Macro 28 184–189 Macro 29 190–195 Macro 30 196–201 Macro 31 202–207 Macro 32 208–213 Macro 33 214–219 Macro 34 220–225 Macro 35 226–231 Macro 36 232–237 Macro 37 238–243 Macro 38 244–249 Macro 39 250–255 Auto Run
18	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F

252Ch (continued)

Ch	Function	Default	DMX values
19	Color Macro1	0	0–45 Macro Off (wheel slot 1) 46–50 Cyan (wheel slot 2) 51–55 Yellow (wheel slot 3) 56–60 Magenta (wheel slot 4) 61–65 Medium Yellow (wheel slot 5) 66–70 Straw Tint (wheel slot 6) 71–75 Surpise Peach (wheel slot 7) 76–80 Fire (wheel slot 8) 81–85 Medium Amber (wheel slot 9) 86–90 Gold Amber (wheel slot 10) 91–95 Dark Amber (wheel slot 11) 96–100 Sunrise Red (wheel slot 12) 101–105 Light Pink (wheel slot 13) 106–110 Medium Pink (wheel slot 14) 111–115 Pink Carnation (wheel slot 15) 116–120 Light Lavender (wheel slot 16) 121–125 Sky Blue (wheel slot 17) 126–130 Just Blue (wheel slot 18) 131–135 Dark Yellow Green (wheel slot 19) 136–140 Spring Yellow (wheel slot 20) 141–145 Light Amber (wheel slot 21) 146–150 Straw (wheel slot 22) 151–155 Deep Amber (wheel slot 23) 156–160 Orange (wheel slot 24) 161–165 Light Rose (wheel slot 25) 166–170 Middle Rose (wheel slot 26) 171–175 Dark Pink (wheel slot 27) 176–180 Magenta 2 (wheel slot 28) 181–185 Peacock Blue (wheel slot 29) 186–190 Steel Blue (wheel slot 30) 191–195 Light Blue (wheel slot 31) 196–200 Dark Blue (wheel slot 32) 201–205 Leaf Green (wheel slot 33) 206–210 Dark Green (wheel slot 34) 211–215 Mauve (wheel slot 35) 216–220 Deep Golden Amber (wheel slot 36) 221–225 Pale Lavender (wheel slot 37) 226–230 Primary Green (wheel slot 38) 231–235 Bright Blue (wheel slot 39) 236–240 Apricot (wheel slot 40) 241–245 Pale Gold (wheel slot 41) 246–250 Deep Orange (wheel slot 42) 251–255 Flame Red (wheel slot 43)
20	C TO	0	0–17 OFF 18–34 8000K 35–51 7500K 52–68 6500K 69–85 6000K 86–102 5600K 103–119 5000K 120–136 4500K 137–153 4000K 154–170 3500K 171–187 3200K 188–204 3000K 205–221 2700K 222–238 2500K 239–255 2000K

252Ch (continued)

Ch	Function	Default	DMX values
21	Tint	128	0–0 Off 1–127 Magenta Shift 128–128 Off 129–254 Green Shift 255–255 Off
22	Dimmer	255	0–254 Closed 255–255 Open
23	Dimmer Fine	255	Fine byte of Dimmer
24	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
25	Red	255	
26	Green	255	
27	Blue	255	

252Ch-Virtual White

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	Zoom	0	0–254 Narrow 255–255 Wide
7	Shape Fade	0	
8	Zoom Pos	192	0–31 0 deg 32–63 15 deg 64–95 30 deg 96–126 45 deg 127–127 60 deg 128–140 x5 Rot Zoom<< 141–152 x4 Rot Zoom<< 153–165 x3 Rot Zoom<< 166–177 x2 Rot Zoom<< 178–191 x1 Rot Zoom<< 192–192 Rot Zoom>< 193–205 x1 Rot Zoom>> 206–217 x2 Rot Zoom>> 218–230 x3 Rot Zoom>> 231–242 x4 Rot Zoom>> 243–255 x5 Rot Zoom>>

252Ch-Virtual White (continued)

Ch	Function	Default	DMX values
9	Control1	0	0–0 Menu Set 1–10 NoFeature 11–16 Dimmer Smooth 17–21 Dimmer Fast 22–26 LED 400Hz 27–31 LED 1200Hz 32–36 LED 2000Hz 37–41 LED 4000Hz 42–46 LED 6000Hz 47–51 LED 8000Hz 52–56 LED 16000Hz 57–61 LED 24000Hz 62–126 NoFeature 1 127–131 DMX Hold 132–136 DMX Blackout 137–141 Virtual White On 142–146 Virtual White Off 147–200 NoFeature 2 201–215 Zoom Reset 216–230 Position Reset 231–245 Reset 246–255 NoFeature 3
10	Dimmer	0	0–254 Closed 255–255 Open
11	Dimmer Fine	0	Fine byte of Dimmer
12	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
13	Red	255	
14	Green	255	
15	Blue	255	
16	White	255	

252Ch-Virtual White (continued)

Ch	Function	Default	DMX values
17	Shape Selection	0	0–15 Off 16–20 Macro1 21–27 Macro2 28–33 Macro3 34–39 Macro4 40–45 Macro5 46–51 Macro6 52–57 Macro7 58–63 Macro8 64–69 Macro9 70–75 Macro10 76–81 Macro11 82–87 Macro12 88–93 Macro13 94–99 Macro14 100–105 Macro15 106–111 Macro16 112–117 Macro 17 118–123 Macro 18 124–129 Macro 19 130–135 Macro 20 136–141 Macro 21 142–147 Macro 22 148–153 Macro 23 154–159 Macro 24 160–165 Macro 25 166–171 Macro 26 172–177 Macro 27 178–183 Macro 28 184–189 Macro 29 190–195 Macro 30 196–201 Macro 31 202–207 Macro 32 208–213 Macro 33 214–219 Macro 34 220–225 Macro 35 226–231 Macro 36 232–237 Macro 37 238–243 Macro 38 244–249 Macro 39 250–255 Auto Run
18	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F

252Ch-Virtual White (continued)

Ch	Function	Default	DMX values
19	Color Macro1	0	0–45 Macro Off (wheel slot 1) 46–50 Cyan (wheel slot 2) 51–55 Yellow (wheel slot 3) 56–60 Magenta (wheel slot 4) 61–65 Medium Yellow (wheel slot 5) 66–70 Straw Tint (wheel slot 6) 71–75 Surpise Peach (wheel slot 7) 76–80 Fire (wheel slot 8) 81–85 Medium Amber (wheel slot 9) 86–90 Gold Amber (wheel slot 10) 91–95 Dark Amber (wheel slot 11) 96–100 Sunrise Red (wheel slot 12) 101–105 Light Pink (wheel slot 13) 106–110 Medium Pink (wheel slot 14) 111–115 Pink Carnation (wheel slot 15) 116–120 Light Lavender (wheel slot 16) 121–125 Sky Blue (wheel slot 17) 126–130 Just Blue (wheel slot 18) 131–135 Dark Yellow Green (wheel slot 19) 136–140 Spring Yellow (wheel slot 20) 141–145 Light Amber (wheel slot 21) 146–150 Straw (wheel slot 22) 151–155 Deep Amber (wheel slot 23) 156–160 Orange (wheel slot 24) 161–165 Light Rose (wheel slot 25) 166–170 Middle Rose (wheel slot 26) 171–175 Dark Pink (wheel slot 27) 176–180 Magenta 2 (wheel slot 28) 181–185 Peacock Blue (wheel slot 29) 186–190 Steel Blue (wheel slot 30) 191–195 Light Blue (wheel slot 31) 196–200 Dark Blue (wheel slot 32) 201–205 Leaf Green (wheel slot 33) 206–210 Dark Green (wheel slot 34) 211–215 Mauve (wheel slot 35) 216–220 Deep Golden Amber (wheel slot 36) 221–225 Pale Lavender (wheel slot 37) 226–230 Primary Green (wheel slot 38) 231–235 Bright Blue (wheel slot 39) 236–240 Apricot (wheel slot 40) 241–245 Pale Gold (wheel slot 41) 246–250 Deep Orange (wheel slot 42) 251–255 Flame Red (wheel slot 43)
20	C TO	0	0–17 OFF 18–34 8000K 35–51 7500K 52–68 6500K 69–85 6000K 86–102 5600K 103–119 5000K 120–136 4500K 137–153 4000K 154–170 3500K 171–187 3200K 188–204 3000K 205–221 2700K 222–238 2500K 239–255 2000K

252Ch-Virtual White (continued)

Ch	Function	Default	DMX values
21	Tint	128	0–0 Off 1–127 Magenta Shift 128–128 Off 129–254 Green Shift 255–255 Off
22	Dimmer	255	0–254 Closed 255–255 Open
23	Dimmer Fine	255	Fine byte of Dimmer
24	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
25	Red	255	
26	Green	255	
27	Blue	255	

99Ch

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	Zoom	0	0–254 Narrow 255–255 Wide
7	Shape Fade	0	
8	Zoom Pos	192	0–31 0 deg 32–63 15 deg 64–95 30 deg 96–126 45 deg 127–127 60 deg 128–140 x5 Rot Zoom<< 141–152 x4 Rot Zoom<< 153–165 x3 Rot Zoom<< 166–177 x2 Rot Zoom<< 178–191 x1 Rot Zoom<< 192–192 Rot Zoom>< 193–205 x1 Rot Zoom>> 206–217 x2 Rot Zoom>> 218–230 x3 Rot Zoom>> 231–242 x4 Rot Zoom>> 243–255 x5 Rot Zoom>>

99Ch (continued)

Ch	Function	Default	DMX values
9	Control1	0	0–0 Menu Set 1–10 NoFeature 11–16 Dimmer Smooth 17–21 Dimmer Fast 22–26 LED 400Hz 27–31 LED 1200Hz 32–36 LED 2000Hz 37–41 LED 4000Hz 42–46 LED 6000Hz 47–51 LED 8000Hz 52–56 LED 16000Hz 57–61 LED 24000Hz 62–126 NoFeature 1 127–131 DMX Hold 132–136 DMX Blackout 137–141 Virtual White On 142–146 Virtual White Off 147–200 NoFeature 2 201–215 Zoom Reset 216–230 Position Reset 231–245 Reset 246–255 NoFeature 3
10	Dimmer	0	0–254 Closed 255–255 Open
11	Dimmer Fine	0	Fine byte of Dimmer
12	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
13	Red	255	
14	Green	255	
15	Blue	255	
16	Shape Selection	0	0–5 Off 6–20 Macro1 21–35 Macro2 36–50 Macro3 51–65 Macro4 66–80 Macro5 81–95 Macro6 96–110 Macro7 111–125 Macro8 126–140 Macro9 141–155 Macro10 156–170 Macro11 171–185 Macro12 186–200 Macro13 201–215 Macro14 216–230 Macro15 231–245 Macro16 246–255 Auto Run
17	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F
18	Dimmer	255	0–254 Closed 255–255 Open
19	Dimmer Fine	255	Fine byte of Dimmer

99Ch (continued)

Ch	Function	Default	DMX values
20	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
21	Color Macro1	0	0–45 Macro Off (wheel slot 1) 46–50 Cyan (wheel slot 2) 51–55 Yellow (wheel slot 3) 56–60 Magenta (wheel slot 4) 61–65 Medium Yellow (wheel slot 5) 66–70 Straw Tint (wheel slot 6) 71–75 Surpise Peach (wheel slot 7) 76–80 Fire (wheel slot 8) 81–85 Medium Amber (wheel slot 9) 86–90 Gold Amber (wheel slot 10) 91–95 Dark Amber (wheel slot 11) 96–100 Sunrise Red (wheel slot 12) 101–105 Light Pink (wheel slot 13) 106–110 Medium Pink (wheel slot 14) 111–115 Pink Carnation (wheel slot 15) 116–120 Light Lavender (wheel slot 16) 121–125 Sky Blue (wheel slot 17) 126–130 Just Blue (wheel slot 18) 131–135 Dark Yellow Green (wheel slot 19) 136–140 Spring Yellow (wheel slot 20) 141–145 Light Amber (wheel slot 21) 146–150 Straw (wheel slot 22) 151–155 Deep Amber (wheel slot 23) 156–160 Orange (wheel slot 24) 161–165 Light Rose (wheel slot 25) 166–170 Middle Rose (wheel slot 26) 171–175 Dark Pink (wheel slot 27) 176–180 Magenta 2 (wheel slot 28) 181–185 Peacock Blue (wheel slot 29) 186–190 Steel Blue (wheel slot 30) 191–195 Light Blue (wheel slot 31) 196–200 Dark Blue (wheel slot 32) 201–205 Leaf Green (wheel slot 33) 206–210 Dark Green (wheel slot 34) 211–215 Mauve (wheel slot 35) 216–220 Deep Golden Amber (wheel slot 36) 221–225 Pale Lavender (wheel slot 37) 226–230 Primary Green (wheel slot 38) 231–235 Bright Blue (wheel slot 39) 236–240 Apricot (wheel slot 40) 241–245 Pale Gold (wheel slot 41) 246–250 Deep Orange (wheel slot 42) 251–255 Flame Red (wheel slot 43)

99Ch (continued)

Ch	Function	Default	DMX values
22	C TO	0	0–17 OFF 18–34 8000K 35–51 7500K 52–68 6500K 69–85 6000K 86–102 5600K 103–119 5000K 120–136 4500K 137–153 4000K 154–170 3500K 171–187 3200K 188–204 3000K 205–221 2700K 222–238 2500K 239–255 2000K
23	Tint	128	0–0 Off 1–127 Magenta Shift 128–128 Off 129–254 Green Shift 255–255 Off
24	Red	255	
25	Green	255	
26	Blue	255	
27	Color Add GY	255	

99Ch-Virtual White

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	Zoom	0	0–254 Narrow 255–255 Wide
7	Shape Fade	0	
8	Zoom Pos	192	0–31 0 deg 32–63 15 deg 64–95 30 deg 96–126 45 deg 127–127 60 deg 128–140 x5 Rot Zoom<< 141–152 x4 Rot Zoom<< 153–165 x3 Rot Zoom<< 166–177 x2 Rot Zoom<< 178–191 x1 Rot Zoom<< 192–192 Rot Zoom>< 193–205 x1 Rot Zoom>>>br>206–217 x2 Rot Zoom>>>br>218–230 x3 Rot Zoom>>>br>231–242 x4 Rot Zoom>>>br>243–255 x5 Rot Zoom>>

99Ch-Virtual White (continued)

Ch	Function	Default	DMX values
9	Control1	0	0–0 Menu Set 1–10 NoFeature 11–16 Dimmer Smooth 17–21 Dimmer Fast 22–26 LED 400Hz 27–31 LED 1200Hz 32–36 LED 2000Hz 37–41 LED 4000Hz 42–46 LED 6000Hz 47–51 LED 8000Hz 52–56 LED 16000Hz 57–61 LED 24000Hz 62–126 NoFeature 1 127–131 DMX Hold 132–136 DMX Blackout 137–141 Virtual White On 142–146 Virtual White Off 147–200 NoFeature 2 201–215 Zoom Reset 216–230 Position Reset 231–245 Reset 246–255 NoFeature 3
10	Dimmer	0	0–254 Closed 255–255 Open
11	Dimmer Fine	0	Fine byte of Dimmer
12	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
13	Red	255	
14	Green	255	
15	Blue	255	
16	Shape Selection	0	0–5 Off 6–20 Macro1 21–35 Macro2 36–50 Macro3 51–65 Macro4 66–80 Macro5 81–95 Macro6 96–110 Macro7 111–125 Macro8 126–140 Macro9 141–155 Macro10 156–170 Macro11 171–185 Macro12 186–200 Macro13 201–215 Macro14 216–230 Macro15 231–245 Macro16 246–255 Auto Run
17	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F
18	Dimmer	255	0–254 Closed 255–255 Open
19	Dimmer Fine	255	Fine byte of Dimmer

99Ch-Virtual White (continued)

Ch	Function	Default	DMX values
20	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
21	Color Macro1	0	0–45 Macro Off (wheel slot 1) 46–50 Cyan (wheel slot 2) 51–55 Yellow (wheel slot 3) 56–60 Magenta (wheel slot 4) 61–65 Medium Yellow (wheel slot 5) 66–70 Straw Tint (wheel slot 6) 71–75 Surpise Peach (wheel slot 7) 76–80 Fire (wheel slot 8) 81–85 Medium Amber (wheel slot 9) 86–90 Gold Amber (wheel slot 10) 91–95 Dark Amber (wheel slot 11) 96–100 Sunrise Red (wheel slot 12) 101–105 Light Pink (wheel slot 13) 106–110 Medium Pink (wheel slot 14) 111–115 Pink Carnation (wheel slot 15) 116–120 Light Lavender (wheel slot 16) 121–125 Sky Blue (wheel slot 17) 126–130 Just Blue (wheel slot 18) 131–135 Dark Yellow Green (wheel slot 19) 136–140 Spring Yellow (wheel slot 20) 141–145 Light Amber (wheel slot 21) 146–150 Straw (wheel slot 22) 151–155 Deep Amber (wheel slot 23) 156–160 Orange (wheel slot 24) 161–165 Light Rose (wheel slot 25) 166–170 Middle Rose (wheel slot 26) 171–175 Dark Pink (wheel slot 27) 176–180 Magenta 2 (wheel slot 28) 181–185 Peacock Blue (wheel slot 29) 186–190 Steel Blue (wheel slot 30) 191–195 Light Blue (wheel slot 31) 196–200 Dark Blue (wheel slot 32) 201–205 Leaf Green (wheel slot 33) 206–210 Dark Green (wheel slot 34) 211–215 Mauve (wheel slot 35) 216–220 Deep Golden Amber (wheel slot 36) 221–225 Pale Lavender (wheel slot 37) 226–230 Primary Green (wheel slot 38) 231–235 Bright Blue (wheel slot 39) 236–240 Apricot (wheel slot 40) 241–245 Pale Gold (wheel slot 41) 246–250 Deep Orange (wheel slot 42) 251–255 Flame Red (wheel slot 43)

99Ch-Virtual White (continued)

Ch	Function	Default	DMX values
22	C TO	0	0–17 OFF 18–34 8000K 35–51 7500K 52–68 6500K 69–85 6000K 86–102 5600K 103–119 5000K 120–136 4500K 137–153 4000K 154–170 3500K 171–187 3200K 188–204 3000K 205–221 2700K 222–238 2500K 239–255 2000K
23	Tint	128	0–0 Off 1–127 Magenta Shift 128–128 Off 129–254 Green Shift 255–255 Off
24	Red	255	
25	Green	255	
26	Blue	255	
27	White	255	

28Ch

28 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	Zoom	0	0–254 Narrow 255–255 Wide
7	Shape Fade	0	
8	Zoom Pos	192	0–31 0 deg 32–63 15 deg 64–95 30 deg 96–126 45 deg 127–127 60 deg 128–140 x5 Rot Zoom<< 141–152 x4 Rot Zoom<< 153–165 x3 Rot Zoom<< 166–177 x2 Rot Zoom<< 178–191 x1 Rot Zoom<< 192–192 Rot Zoom>< 193–205 x1 Rot Zoom>> 206–217 x2 Rot Zoom>> 218–230 x3 Rot Zoom>> 231–242 x4 Rot Zoom>> 243–255 x5 Rot Zoom>>

28Ch (continued)

Ch	Function	Default	DMX values
9	Control1	0	0–0 Menu Set 1–10 NoFeature 11–16 Dimmer Smooth 17–21 Dimmer Fast 22–26 LED 400Hz 27–31 LED 1200Hz 32–36 LED 2000Hz 37–41 LED 4000Hz 42–46 LED 6000Hz 47–51 LED 8000Hz 52–56 LED 16000Hz 57–61 LED 24000Hz 62–126 NoFeature 1 127–131 DMX Hold 132–136 DMX Blackout 137–141 Virtual White On 142–146 Virtual White Off 147–200 NoFeature 2 201–215 Zoom Reset 216–230 Position Reset 231–245 Reset 246–255 NoFeature 3
10	Dimmer	0	0–254 Closed 255–255 Open
11	Dimmer Fine	0	Fine byte of Dimmer
12	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
13	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
14	Red	255	
15	Green	255	
16	Blue	255	
17	Color Add GY	255	
18	Dimmer	0	0–254 Closed 255–255 Open
19	Red	255	
20	Green	255	
21	Blue	255	

28Ch (continued)

Ch	Function	Default	DMX values
22	Shape Selection	0	0–15 Off 16–20 Macro1 21–27 Macro2 28–33 Macro3 34–39 Macro4 40–45 Macro5 46–51 Macro6 52–57 Macro7 58–63 Macro8 64–69 Macro9 70–75 Macro10 76–81 Macro11 82–87 Macro12 88–93 Macro13 94–99 Macro14 100–105 Macro15 106–111 Macro16 112–117 Macro 17 118–123 Macro 18 124–129 Macro 19 130–135 Macro 20 136–141 Macro 21 142–147 Macro 22 148–153 Macro 23 154–159 Macro 24 160–165 Macro 25 166–171 Macro 26 172–177 Macro 27 178–183 Macro 28 184–189 Macro 29 190–195 Macro 30 196–201 Macro 31 202–207 Macro 32 208–213 Macro 33 214–219 Macro 34 220–225 Macro 35 226–231 Macro 36 232–237 Macro 37 238–243 Macro 38 244–249 Macro 39 250–255 Auto Run
23	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F

28Ch (continued)

Ch	Function	Default	DMX values
24	Shape Selection	0	0–5 Off 6–20 Macro1 21–35 Macro2 36–50 Macro3 51–65 Macro4 66–80 Macro5 81–95 Macro6 96–110 Macro7 111–125 Macro8 126–140 Macro9 141–155 Macro10 156–170 Macro11 171–185 Macro12 186–200 Macro13 201–215 Macro14 216–230 Macro15 231–245 Macro16 246–255 Auto Run
25	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F

28Ch (continued)

Ch	Function	Default	DMX values
26	Color Macro1	0	0–45 Macro Off (wheel slot 1) 46–50 Cyan (wheel slot 2) 51–55 Yellow (wheel slot 3) 56–60 Magenta (wheel slot 4) 61–65 Medium Yellow (wheel slot 5) 66–70 Straw Tint (wheel slot 6) 71–75 Surpise Peach (wheel slot 7) 76–80 Fire (wheel slot 8) 81–85 Medium Amber (wheel slot 9) 86–90 Gold Amber (wheel slot 10) 91–95 Dark Amber (wheel slot 11) 96–100 Sunrise Red (wheel slot 12) 101–105 Light Pink (wheel slot 13) 106–110 Medium Pink (wheel slot 14) 111–115 Pink Carnation (wheel slot 15) 116–120 Light Lavender (wheel slot 16) 121–125 Sky Blue (wheel slot 17) 126–130 Just Blue (wheel slot 18) 131–135 Dark Yellow Green (wheel slot 19) 136–140 Spring Yellow (wheel slot 20) 141–145 Light Amber (wheel slot 21) 146–150 Straw (wheel slot 22) 151–155 Deep Amber (wheel slot 23) 156–160 Orange (wheel slot 24) 161–165 Light Rose (wheel slot 25) 166–170 Middle Rose (wheel slot 26) 171–175 Dark Pink (wheel slot 27) 176–180 Magenta 2 (wheel slot 28) 181–185 Peacock Blue (wheel slot 29) 186–190 Steel Blue (wheel slot 30) 191–195 Light Blue (wheel slot 31) 196–200 Dark Blue (wheel slot 32) 201–205 Leaf Green (wheel slot 33) 206–210 Dark Green (wheel slot 34) 211–215 Mauve (wheel slot 35) 216–220 Deep Golden Amber (wheel slot 36) 221–225 Pale Lavender (wheel slot 37) 226–230 Primary Green (wheel slot 38) 231–235 Bright Blue (wheel slot 39) 236–240 Apricot (wheel slot 40) 241–245 Pale Gold (wheel slot 41) 246–250 Deep Orange (wheel slot 42) 251–255 Flame Red (wheel slot 43)
27	C TO	0	0–17 OFF 18–34 8000K 35–51 7500K 52–68 6500K 69–85 6000K 86–102 5600K 103–119 5000K 120–136 4500K 137–153 4000K 154–170 3500K 171–187 3200K 188–204 3000K 205–221 2700K 222–238 2500K 239–255 2000K

28Ch (continued)

Ch	Function	Default	DMX values
28	Tint	128	0–0 Off 1–127 Magenta Shift 128–128 Off 129–254 Green Shift 255–255 Off

28Ch-Virtual White

28 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	Zoom	0	0–254 Narrow 255–255 Wide
7	Shape Fade	0	
8	Zoom Pos	192	0–31 0 deg 32–63 15 deg 64–95 30 deg 96–126 45 deg 127–127 60 deg 128–140 x5 Rot Zoom<< 141–152 x4 Rot Zoom<< 153–165 x3 Rot Zoom<< 166–177 x2 Rot Zoom<< 178–191 x1 Rot Zoom<< 192–192 Rot Zoom>< 193–205 x1 Rot Zoom>>>br>206–217 x2 Rot Zoom>>>br>218–230 x3 Rot Zoom>>>br>231–242 x4 Rot Zoom>>>br>243–255 x5 Rot Zoom>>>
9	Control1	0	0–0 Menu Set 1–10 NoFeature 11–16 Dimmer Smooth 17–21 Dimmer Fast 22–26 LED 400Hz 27–31 LED 1200Hz 32–36 LED 2000Hz 37–41 LED 4000Hz 42–46 LED 6000Hz 47–51 LED 8000Hz 52–56 LED 16000Hz 57–61 LED 24000Hz 62–126 NoFeature 1 127–131 DMX Hold 132–136 DMX Blackout 137–141 Virtual White On 142–146 Virtual White Off 147–200 NoFeature 2 201–215 Zoom Reset 216–230 Position Reset 231–245 Reset 246–255 NoFeature 3
10	Dimmer	0	0–254 Closed 255–255 Open

28Ch-Virtual White (continued)

Ch	Function	Default	DMX values
11	Dimmer Fine	0	Fine byte of Dimmer
12	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
13	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
14	Red	255	
15	Green	255	
16	Blue	255	
17	White	255	
18	Dimmer	0	0–254 Closed 255–255 Open
19	Red	255	
20	Green	255	
21	Blue	255	

28Ch-Virtual White (continued)

Ch	Function	Default	DMX values
22	Shape Selection	0	0–15 Off 16–20 Macro1 21–27 Macro2 28–33 Macro3 34–39 Macro4 40–45 Macro5 46–51 Macro6 52–57 Macro7 58–63 Macro8 64–69 Macro9 70–75 Macro10 76–81 Macro11 82–87 Macro12 88–93 Macro13 94–99 Macro14 100–105 Macro15 106–111 Macro16 112–117 Macro 17 118–123 Macro 18 124–129 Macro 19 130–135 Macro 20 136–141 Macro 21 142–147 Macro 22 148–153 Macro 23 154–159 Macro 24 160–165 Macro 25 166–171 Macro 26 172–177 Macro 27 178–183 Macro 28 184–189 Macro 29 190–195 Macro 30 196–201 Macro 31 202–207 Macro 32 208–213 Macro 33 214–219 Macro 34 220–225 Macro 35 226–231 Macro 36 232–237 Macro 37 238–243 Macro 38 244–249 Macro 39 250–255 Auto Run
23	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F

28Ch-Virtual White (continued)

Ch	Function	Default	DMX values
24	Shape Selection	0	0–5 Off 6–20 Macro1 21–35 Macro2 36–50 Macro3 51–65 Macro4 66–80 Macro5 81–95 Macro6 96–110 Macro7 111–125 Macro8 126–140 Macro9 141–155 Macro10 156–170 Macro11 171–185 Macro12 186–200 Macro13 201–215 Macro14 216–230 Macro15 231–245 Macro16 246–255 Auto Run
25	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F

28Ch-Virtual White (continued)

Ch	Function	Default	DMX values
26	Color Macro1	0	0–45 Macro Off (wheel slot 1) 46–50 Cyan (wheel slot 2) 51–55 Yellow (wheel slot 3) 56–60 Magenta (wheel slot 4) 61–65 Medium Yellow (wheel slot 5) 66–70 Straw Tint (wheel slot 6) 71–75 Surpise Peach (wheel slot 7) 76–80 Fire (wheel slot 8) 81–85 Medium Amber (wheel slot 9) 86–90 Gold Amber (wheel slot 10) 91–95 Dark Amber (wheel slot 11) 96–100 Sunrise Red (wheel slot 12) 101–105 Light Pink (wheel slot 13) 106–110 Medium Pink (wheel slot 14) 111–115 Pink Carnation (wheel slot 15) 116–120 Light Lavender (wheel slot 16) 121–125 Sky Blue (wheel slot 17) 126–130 Just Blue (wheel slot 18) 131–135 Dark Yellow Green (wheel slot 19) 136–140 Spring Yellow (wheel slot 20) 141–145 Light Amber (wheel slot 21) 146–150 Straw (wheel slot 22) 151–155 Deep Amber (wheel slot 23) 156–160 Orange (wheel slot 24) 161–165 Light Rose (wheel slot 25) 166–170 Middle Rose (wheel slot 26) 171–175 Dark Pink (wheel slot 27) 176–180 Magenta 2 (wheel slot 28) 181–185 Peacock Blue (wheel slot 29) 186–190 Steel Blue (wheel slot 30) 191–195 Light Blue (wheel slot 31) 196–200 Dark Blue (wheel slot 32) 201–205 Leaf Green (wheel slot 33) 206–210 Dark Green (wheel slot 34) 211–215 Mauve (wheel slot 35) 216–220 Deep Golden Amber (wheel slot 36) 221–225 Pale Lavender (wheel slot 37) 226–230 Primary Green (wheel slot 38) 231–235 Bright Blue (wheel slot 39) 236–240 Apricot (wheel slot 40) 241–245 Pale Gold (wheel slot 41) 246–250 Deep Orange (wheel slot 42) 251–255 Flame Red (wheel slot 43)
27	C TO	0	0–17 OFF 18–34 8000K 35–51 7500K 52–68 6500K 69–85 6000K 86–102 5600K 103–119 5000K 120–136 4500K 137–153 4000K 154–170 3500K 171–187 3200K 188–204 3000K 205–221 2700K 222–238 2500K 239–255 2000K

28Ch-Virtual White (continued)

Ch	Function	Default	DMX values
28	Tint	128	0–0 Off 1–127 Magenta Shift 128–128 Off 129–254 Green Shift 255–255 Off

35Ch

35 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Red Fine	255	Fine byte of Red
3	Green	255	
4	Green Fine	255	Fine byte of Green
5	Blue	255	
6	Blue Fine	255	Fine byte of Blue
7	Color Add GY	255	
8	Color Add GY Fine	255	Fine byte of Color Add GY
9	C TO	0	0–9 No CTO 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2500K
10	Color Macro1	0	
11	Shutter / Strobe	106	0–3 Closed 4–23 Strobe · x1 Strb>> 1–5.61 Hz 24–43 Strobe · x2 Strb>> 5.85–10.5 Hz 44–63 Strobe · x3 Strb>> 10.7–15.3 Hz 64–83 Strobe · x4 Strb>> 15.5–20.2 Hz 84–103 Strobe · x5 Strb>> 20.4–25 Hz 104–107 Open 108–127 x1 PulseC>> 128–147 x2 PulseC>> 148–167 x3 PulseC>> 168–187 x4 PulseC>> 188–207 x5 PulseC>> 208–212 Open 213–220 Random · x1 RndStrb>> 1–5.42 Hz 221–228 Random · x2 RndStrb>> 6.05–10.5 Hz 229–235 Random · x3 RndStrb>> 11.1–14.9 Hz 236–243 Random · x4 RndStrb>> 15.5–19.9 Hz 244–251 Random · x5 RndStrb>> 20.6–25 Hz 252–255 Open
12	Dimmer	0	0–254 Closed 255–255 Open
13	Dimmer Fine	0	Fine byte of Dimmer
14	Pan	128	
15	Pan Fine	0	Fine byte of Pan
16	Tilt	128	
17	Tilt Fine	0	Fine byte of Tilt
18	Function	0	

35Ch (continued)

Ch	Function	Default	DMX values
19	Fixture Global Reset	0	0–25 No Function 26–76 Zoom Reset 77–127 Position Reset 128–255 Reset
20	Zoom	0	0–254 Narrow 255–255 Wide
21	Zoom Pos	192	0–31 0 deg 32–63 15 deg 64–95 30 deg 96–126 45 deg 127–127 60 deg 128–140 x5 Rot Zoom< 141–152 x4 Rot Zoom<< 153–165 x3 Rot Zoom<< 166–177 x2 Rot Zoom<< 178–191 x1 Rot Zoom<< 192–192 Rot Zoom>< 193–205 x1 Rot Zoom>> 206–217 x2 Rot Zoom>> 218–230 x3 Rot Zoom>> 231–242 x4 Rot Zoom>> 243–255 x5 Rot Zoom>>
22	Shape Selection	0	
23	Shape Speed	0	0–4 0 deg 5–9 30 deg 10–15 60 deg 16–20 90 deg 21–25 120 deg 26–31 150 deg 32–36 180 deg 37–41 210 deg 42–46 240 deg 47–52 270 deg 53–57 300 deg 58–62 330 deg 63–63 360 deg 64–82 x5 Speed< 83–101 x4 Speed<< 102–120 x3 Speed<< 121–139 x2 Speed<< 140–158 x1 Speed<< 159–160 Speed>< 161–179 x1 Speed>> 180–198 x2 Speed>> 199–217 x3 Speed>> 218–236 x4 Speed>> 237–255 x5 Speed>>
24	Shape Fade	0	0–15 Snap 16–53 Gamma 050 54–91 Gamma 075 92–129 Gamma 100 130–167 Gamma 125 168–206 Gamma 150 207–244 Gamma 175 245–245 Gamma 200 246–255 Gamma Auto
25	Red	255	
26	Green	255	
27	Blue	255	

35Ch (continued)

Ch	Function	Default	DMX values
28	Color Add GY	255	
29	Dimmer	0	0–254 Closed 255–255 Open
30	Dimmer	0	0–254 Closed 255–255 Open
31	Shape Transition	0	0–4 No Fade 5–72 100 ms 73–112 500 ms 113–170 1s 171–215 2s 216–254 3s 255–255 4s
32	Shape Offset	0	
33	Shutter / Strobe	106	0–3 Closed 4–23 Strobe · x1 Strb>> 1–5.61 Hz 24–43 Strobe · x2 Strb>> 5.85–10.5 Hz 44–63 Strobe · x3 Strb>> 10.7–15.3 Hz 64–83 Strobe · x4 Strb>> 15.5–20.2 Hz 84–103 Strobe · x5 Strb>> 20.4–25 Hz 104–107 Open 108–127 x1 PulseC>> 128–147 x2 PulseC>> 148–167 x3 PulseC>> 168–187 x4 PulseC>> 188–207 x5 PulseC>> 208–212 Open 213–220 Random · x1 RndStrb>> 1–5.42 Hz 221–228 Random · x2 RndStrb>> 6.05–10.5 Hz 229–235 Random · x3 RndStrb>> 11.1–14.9 Hz 236–243 Random · x4 RndStrb>> 15.5–19.9 Hz 244–251 Random · x5 RndStrb>> 20.6–25 Hz 252–255 Open
34	Shutter / Strobe	106	0–3 Closed 4–23 Strobe · x1 Strb>> 1–5.61 Hz 24–43 Strobe · x2 Strb>> 5.85–10.5 Hz 44–63 Strobe · x3 Strb>> 10.7–15.3 Hz 64–83 Strobe · x4 Strb>> 15.5–20.2 Hz 84–103 Strobe · x5 Strb>> 20.4–25 Hz 104–107 Open 108–127 x1 PulseC>> 128–147 x2 PulseC>> 148–167 x3 PulseC>> 168–187 x4 PulseC>> 188–207 x5 PulseC>> 208–212 Open 213–220 Random · x1 RndStrb>> 1–5.42 Hz 221–228 Random · x2 RndStrb>> 6.05–10.5 Hz 229–235 Random · x3 RndStrb>> 11.1–14.9 Hz 236–243 Random · x4 RndStrb>> 15.5–19.9 Hz 244–251 Random · x5 RndStrb>> 20.6–25 Hz 252–255 Open

35Ch (continued)

Ch	Function	Default	DMX values
35	Shape Selection	0	0–8 BG Shape OFF 9–9 Pixel 1 10–10 Ring 2 11–11 Ring 3 12–12 Ring 4 13–13 Pixel 1 + Ring 2 14–14 Pixel 1 + Ring 2-3 15–15 Pixel 1 + Ring 2-3-4 16–16 Ring 2-3-4 17–17 Ring 3-4 18–18 Pixel 1 + Ring 4 19–19 Ring 2-3 20–20 Pixel 1 + Ring 3 21–21 Ring 2-4 22–22 Pixel 1 + Ring 3-4 23–23 Pixel 1 + Ring 2-4 24–254 No Selection 255–255 Mirror Effect

35Ch-Virtual White

35 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Red Fine	255	Fine byte of Red
3	Green	255	
4	Green Fine	255	Fine byte of Green
5	Blue	255	
6	Blue Fine	255	Fine byte of Blue
7	White	255	
8	White Fine	255	Fine byte of White
9	C TO	0	0–9 No CTO 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2500K
10	Color Macro1	0	

35Ch-Virtual White (continued)

Ch	Function	Default	DMX values
11	Shutter / Strobe	106	0–3 Closed 4–23 Strobe · x1 Strb>> 1–5.61 Hz 24–43 Strobe · x2 Strb>> 5.85–10.5 Hz 44–63 Strobe · x3 Strb>> 10.7–15.3 Hz 64–83 Strobe · x4 Strb>> 15.5–20.2 Hz 84–103 Strobe · x5 Strb>> 20.4–25 Hz 104–107 Open 108–127 x1 PulseC>> 128–147 x2 PulseC>> 148–167 x3 PulseC>> 168–187 x4 PulseC>> 188–207 x5 PulseC>> 208–212 Open 213–220 Random · x1 RndStrb>> 1–5.42 Hz 221–228 Random · x2 RndStrb>> 6.05–10.5 Hz 229–235 Random · x3 RndStrb>> 11.1–14.9 Hz 236–243 Random · x4 RndStrb>> 15.5–19.9 Hz 244–251 Random · x5 RndStrb>> 20.6–25 Hz 252–255 Open
12	Dimmer	0	0–254 Closed 255–255 Open
13	Dimmer Fine	0	Fine byte of Dimmer
14	Pan	128	
15	Pan Fine	0	Fine byte of Pan
16	Tilt	128	
17	Tilt Fine	0	Fine byte of Tilt
18	Function	0	
19	Fixture Global Reset	0	0–25 No Function 26–76 Zoom Reset 77–127 Position Reset 128–255 Reset
20	Zoom	0	0–254 Narrow 255–255 Wide
21	Zoom Pos	192	0–31 0 deg 32–63 15 deg 64–95 30 deg 96–126 45 deg 127–127 60 deg 128–140 x5 Rot Zoom<< 141–152 x4 Rot Zoom<< 153–165 x3 Rot Zoom<< 166–177 x2 Rot Zoom<< 178–191 x1 Rot Zoom<< 192–192 Rot Zoom>< 193–205 x1 Rot Zoom>> 206–217 x2 Rot Zoom>> 218–230 x3 Rot Zoom>> 231–242 x4 Rot Zoom>> 243–255 x5 Rot Zoom>>
22	Shape Selection	0	

35Ch-Virtual White (continued)

Ch	Function	Default	DMX values
23	Shape Speed	0	0–4 0 deg 5–9 30 deg 10–15 60 deg 16–20 90 deg 21–25 120 deg 26–31 150 deg 32–36 180 deg 37–41 210 deg 42–46 240 deg 47–52 270 deg 53–57 300 deg 58–62 330 deg 63–63 360 deg 64–82 x5 Speed< 83–101 x4 Speed<< 102–120 x3 Speed<< 121–139 x2 Speed<< 140–158 x1 Speed<< 159–160 Speed>< 161–179 x1 Speed>> 180–198 x2 Speed>> 199–217 x3 Speed>> 218–236 x4 Speed>> 237–255 x5 Speed>>
24	Shape Fade	0	0–15 Snap 16–53 Gamma 050 54–91 Gamma 075 92–129 Gamma 100 130–167 Gamma 125 168–206 Gamma 150 207–244 Gamma 175 245–245 Gamma 200 246–255 Gamma Auto
25	Red	255	
26	Green	255	
27	Blue	255	
28	White	255	
29	Dimmer	0	0–254 Closed 255–255 Open
30	Dimmer	0	0–254 Closed 255–255 Open
31	Shape Transition	0	0–4 No Fade 5–72 100 ms 73–112 500 ms 113–170 1s 171–215 2s 216–254 3s 255–255 4s
32	Shape Offset	0	

35Ch-Virtual White (continued)

Ch	Function	Default	DMX values
33	Shutter / Strobe	106	0–3 Closed 4–23 Strobe · x1 Strb>> 1–5.61 Hz 24–43 Strobe · x2 Strb>> 5.85–10.5 Hz 44–63 Strobe · x3 Strb>> 10.7–15.3 Hz 64–83 Strobe · x4 Strb>> 15.5–20.2 Hz 84–103 Strobe · x5 Strb>> 20.4–25 Hz 104–107 Open 108–127 x1 PulseC>> 128–147 x2 PulseC>> 148–167 x3 PulseC>> 168–187 x4 PulseC>> 188–207 x5 PulseC>> 208–212 Open 213–220 Random · x1 RndStrb>> 1–5.42 Hz 221–228 Random · x2 RndStrb>> 6.05–10.5 Hz 229–235 Random · x3 RndStrb>> 11.1–14.9 Hz 236–243 Random · x4 RndStrb>> 15.5–19.9 Hz 244–251 Random · x5 RndStrb>> 20.6–25 Hz 252–255 Open
34	Shutter / Strobe	106	0–3 Closed 4–23 Strobe · x1 Strb>> 1–5.61 Hz 24–43 Strobe · x2 Strb>> 5.85–10.5 Hz 44–63 Strobe · x3 Strb>> 10.7–15.3 Hz 64–83 Strobe · x4 Strb>> 15.5–20.2 Hz 84–103 Strobe · x5 Strb>> 20.4–25 Hz 104–107 Open 108–127 x1 PulseC>> 128–147 x2 PulseC>> 148–167 x3 PulseC>> 168–187 x4 PulseC>> 188–207 x5 PulseC>> 208–212 Open 213–220 Random · x1 RndStrb>> 1–5.42 Hz 221–228 Random · x2 RndStrb>> 6.05–10.5 Hz 229–235 Random · x3 RndStrb>> 11.1–14.9 Hz 236–243 Random · x4 RndStrb>> 15.5–19.9 Hz 244–251 Random · x5 RndStrb>> 20.6–25 Hz 252–255 Open
35	Shape Selection	0	0–8 BG Shape OFF 9–9 Pixel 1 10–10 Ring 2 11–11 Ring 3 12–12 Ring 4 13–13 Pixel 1 + Ring 2 14–14 Pixel 1 + Ring 2-3 15–15 Pixel 1 + Ring 2-3-4 16–16 Ring 2-3-4 17–17 Ring 3-4 18–18 Pixel 1 + Ring 4 19–19 Ring 2-3 20–20 Pixel 1 + Ring 3 21–21 Ring 2-4 22–22 Pixel 1 + Ring 3-4 23–23 Pixel 1 + Ring 2-4 24–254 No Selection 255–255 Mirror Effect

40Ch

40 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	Zoom	0	0–254 Narrow 255–255 Wide
7	Shape Fade	0	
8	Zoom Pos	192	0–31 0 deg 32–63 15 deg 64–95 30 deg 96–126 45 deg 127–127 60 deg 128–140 x5 Rot Zoom<< 141–152 x4 Rot Zoom<< 153–165 x3 Rot Zoom<< 166–177 x2 Rot Zoom<< 178–191 x1 Rot Zoom<< 192–192 Rot Zoom>< 193–205 x1 Rot Zoom>>>br>206–217 x2 Rot Zoom>>>br>218–230 x3 Rot Zoom>>>br>231–242 x4 Rot Zoom>>>br>243–255 x5 Rot Zoom>>
9	Control1	0	0–0 Menu Set 1–10 NoFeature 11–16 Dimmer Smooth 17–21 Dimmer Fast 22–26 LED 400Hz 27–31 LED 1200Hz 32–36 LED 2000Hz 37–41 LED 4000Hz 42–46 LED 6000Hz 47–51 LED 8000Hz 52–56 LED 16000Hz 57–61 LED 24000Hz 62–126 NoFeature 1 127–131 DMX Hold 132–136 DMX Blackout 137–141 Virtual White On 142–146 Virtual White Off 147–200 NoFeature 2 201–215 Zoom Reset 216–230 Position Reset 231–245 Reset 246–255 NoFeature 3
10	Dimmer	255	0–254 Closed 255–255 Open
11	Dimmer Fine	255	Fine byte of Dimmer
12	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
13	Dimmer	0	0–254 Closed 255–255 Open

40Ch (continued)

Ch	Function	Default	DMX values
14	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
15	Shape Selection	0	0–15 Off 16–20 Macro1 21–27 Macro2 28–33 Macro3 34–39 Macro4 40–45 Macro5 46–51 Macro6 52–57 Macro7 58–63 Macro8 64–69 Macro9 70–75 Macro10 76–81 Macro11 82–87 Macro12 88–93 Macro13 94–99 Macro14 100–105 Macro15 106–111 Macro16 112–117 Macro 17 118–123 Macro 18 124–129 Macro 19 130–135 Macro 20 136–141 Macro 21 142–147 Macro 22 148–153 Macro 23 154–159 Macro 24 160–165 Macro 25 166–171 Macro 26 172–177 Macro 27 178–183 Macro 28 184–189 Macro 29 190–195 Macro 30 196–201 Macro 31 202–207 Macro 32 208–213 Macro 33 214–219 Macro 34 220–225 Macro 35 226–231 Macro 36 232–237 Macro 37 238–243 Macro 38 244–249 Macro 39 250–255 Auto Run
16	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F

40Ch (continued)

Ch	Function	Default	DMX values
17	C TO	0	0–17 OFF 18–34 8000K 35–51 7500K 52–68 6500K 69–85 6000K 86–102 5600K 103–119 5000K 120–136 4500K 137–153 4000K 154–170 3500K 171–187 3200K 188–204 3000K 205–221 2700K 222–238 2500K 239–255 2000K
18	Tint	128	0–0 Off 1–127 Magenta Shift 128–128 Off 129–254 Green Shift 255–255 Off

40Ch (continued)

Ch	Function	Default	DMX values
19	Color Macro1	0	0–45 Macro Off (wheel slot 1) 46–50 Cyan (wheel slot 2) 51–55 Yellow (wheel slot 3) 56–60 Magenta (wheel slot 4) 61–65 Medium Yellow (wheel slot 5) 66–70 Straw Tint (wheel slot 6) 71–75 Surpise Peach (wheel slot 7) 76–80 Fire (wheel slot 8) 81–85 Medium Amber (wheel slot 9) 86–90 Gold Amber (wheel slot 10) 91–95 Dark Amber (wheel slot 11) 96–100 Sunrise Red (wheel slot 12) 101–105 Light Pink (wheel slot 13) 106–110 Medium Pink (wheel slot 14) 111–115 Pink Carnation (wheel slot 15) 116–120 Light Lavender (wheel slot 16) 121–125 Sky Blue (wheel slot 17) 126–130 Just Blue (wheel slot 18) 131–135 Dark Yellow Green (wheel slot 19) 136–140 Spring Yellow (wheel slot 20) 141–145 Light Amber (wheel slot 21) 146–150 Straw (wheel slot 22) 151–155 Deep Amber (wheel slot 23) 156–160 Orange (wheel slot 24) 161–165 Light Rose (wheel slot 25) 166–170 Middle Rose (wheel slot 26) 171–175 Dark Pink (wheel slot 27) 176–180 Magenta 2 (wheel slot 28) 181–185 Peacock Blue (wheel slot 29) 186–190 Steel Blue (wheel slot 30) 191–195 Light Blue (wheel slot 31) 196–200 Dark Blue (wheel slot 32) 201–205 Leaf Green (wheel slot 33) 206–210 Dark Green (wheel slot 34) 211–215 Mauve (wheel slot 35) 216–220 Deep Golden Amber (wheel slot 36) 221–225 Pale Lavender (wheel slot 37) 226–230 Primary Green (wheel slot 38) 231–235 Bright Blue (wheel slot 39) 236–240 Apricot (wheel slot 40) 241–245 Pale Gold (wheel slot 41) 246–250 Deep Orange (wheel slot 42) 251–255 Flame Red (wheel slot 43)
20	Red	255	
21	Green	255	
22	Blue	255	

40Ch (continued)

Ch	Function	Default	DMX values
23	Shape Selection	0	0–5 Off 6–20 Macro1 21–35 Macro2 36–50 Macro3 51–65 Macro4 66–80 Macro5 81–95 Macro6 96–110 Macro7 111–125 Macro8 126–140 Macro9 141–155 Macro10 156–170 Macro11 171–185 Macro12 186–200 Macro13 201–215 Macro14 216–230 Macro15 231–245 Macro16 246–255 Auto Run
24	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F
25	Red	255	
26	Green	255	
27	Blue	255	
28	Color Add GY	255	
29	Red	255	
30	Green	255	
31	Blue	255	
32	Color Add GY	255	
33	Red	255	
34	Green	255	
35	Blue	255	
36	Color Add GY	255	
37	Red	255	
38	Green	255	
39	Blue	255	
40	Color Add GY	255	

40Ch-Virtual White

40 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	Zoom	0	0–254 Narrow 255–255 Wide
7	Shape Fade	0	

40Ch-Virtual White (continued)

Ch	Function	Default	DMX values
8	Zoom Pos	192	0–31 0 deg 32–63 15 deg 64–95 30 deg 96–126 45 deg 127–127 60 deg 128–140 x5 Rot Zoom<< 141–152 x4 Rot Zoom<< 153–165 x3 Rot Zoom<< 166–177 x2 Rot Zoom<< 178–191 x1 Rot Zoom<< 192–192 Rot Zoom>< 193–205 x1 Rot Zoom>>>br>206–217 x2 Rot Zoom>>>br>218–230 x3 Rot Zoom>>>br>231–242 x4 Rot Zoom>>>br>243–255 x5 Rot Zoom>>
9	Control1	0	0–0 Menu Set 1–10 NoFeature 11–16 Dimmer Smooth 17–21 Dimmer Fast 22–26 LED 400Hz 27–31 LED 1200Hz 32–36 LED 2000Hz 37–41 LED 4000Hz 42–46 LED 6000Hz 47–51 LED 8000Hz 52–56 LED 16000Hz 57–61 LED 24000Hz 62–126 NoFeature 1 127–131 DMX Hold 132–136 DMX Blackout 137–141 Virtual White On 142–146 Virtual White Off 147–200 NoFeature 2 201–215 Zoom Reset 216–230 Position Reset 231–245 Reset 246–255 NoFeature 3
10	Dimmer	255	0–254 Closed 255–255 Open
11	Dimmer Fine	255	Fine byte of Dimmer
12	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
13	Dimmer	0	0–254 Closed 255–255 Open
14	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F

40Ch-Virtual White (continued)

Ch	Function	Default	DMX values
15	Shape Selection	0	0–15 Off 16–20 Macro1 21–27 Macro2 28–33 Macro3 34–39 Macro4 40–45 Macro5 46–51 Macro6 52–57 Macro7 58–63 Macro8 64–69 Macro9 70–75 Macro10 76–81 Macro11 82–87 Macro12 88–93 Macro13 94–99 Macro14 100–105 Macro15 106–111 Macro16 112–117 Macro 17 118–123 Macro 18 124–129 Macro 19 130–135 Macro 20 136–141 Macro 21 142–147 Macro 22 148–153 Macro 23 154–159 Macro 24 160–165 Macro 25 166–171 Macro 26 172–177 Macro 27 178–183 Macro 28 184–189 Macro 29 190–195 Macro 30 196–201 Macro 31 202–207 Macro 32 208–213 Macro 33 214–219 Macro 34 220–225 Macro 35 226–231 Macro 36 232–237 Macro 37 238–243 Macro 38 244–249 Macro 39 250–255 Auto Run
16	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F
17	C TO	0	0–17 OFF 18–34 8000K 35–51 7500K 52–68 6500K 69–85 6000K 86–102 5600K 103–119 5000K 120–136 4500K 137–153 4000K 154–170 3500K 171–187 3200K 188–204 3000K 205–221 2700K 222–238 2500K 239–255 2000K

40Ch-Virtual White (continued)

Ch	Function	Default	DMX values
18	Tint	128	0–0 Off 1–127 Magenta Shift 128–128 Off 129–254 Green Shift 255–255 Off
19	Color Macro1	0	0–45 Macro Off (wheel slot 1) 46–50 Cyan (wheel slot 2) 51–55 Yellow (wheel slot 3) 56–60 Magenta (wheel slot 4) 61–65 Medium Yellow (wheel slot 5) 66–70 Straw Tint (wheel slot 6) 71–75 Surpise Peach (wheel slot 7) 76–80 Fire (wheel slot 8) 81–85 Medium Amber (wheel slot 9) 86–90 Gold Amber (wheel slot 10) 91–95 Dark Amber (wheel slot 11) 96–100 Sunrise Red (wheel slot 12) 101–105 Light Pink (wheel slot 13) 106–110 Medium Pink (wheel slot 14) 111–115 Pink Carnation (wheel slot 15) 116–120 Light Lavender (wheel slot 16) 121–125 Sky Blue (wheel slot 17) 126–130 Just Blue (wheel slot 18) 131–135 Dark Yellow Green (wheel slot 19) 136–140 Spring Yellow (wheel slot 20) 141–145 Light Amber (wheel slot 21) 146–150 Straw (wheel slot 22) 151–155 Deep Amber (wheel slot 23) 156–160 Orange (wheel slot 24) 161–165 Light Rose (wheel slot 25) 166–170 Middle Rose (wheel slot 26) 171–175 Dark Pink (wheel slot 27) 176–180 Magenta 2 (wheel slot 28) 181–185 Peacock Blue (wheel slot 29) 186–190 Steel Blue (wheel slot 30) 191–195 Light Blue (wheel slot 31) 196–200 Dark Blue (wheel slot 32) 201–205 Leaf Green (wheel slot 33) 206–210 Dark Green (wheel slot 34) 211–215 Mauve (wheel slot 35) 216–220 Deep Golden Amber (wheel slot 36) 221–225 Pale Lavender (wheel slot 37) 226–230 Primary Green (wheel slot 38) 231–235 Bright Blue (wheel slot 39) 236–240 Apricot (wheel slot 40) 241–245 Pale Gold (wheel slot 41) 246–250 Deep Orange (wheel slot 42) 251–255 Flame Red (wheel slot 43)
20	Red	255	
21	Green	255	
22	Blue	255	

40Ch-Virtual White (continued)

Ch	Function	Default	DMX values
23	Shape Selection	0	0–5 Off 6–20 Macro1 21–35 Macro2 36–50 Macro3 51–65 Macro4 66–80 Macro5 81–95 Macro6 96–110 Macro7 111–125 Macro8 126–140 Macro9 141–155 Macro10 156–170 Macro11 171–185 Macro12 186–200 Macro13 201–215 Macro14 216–230 Macro15 231–245 Macro16 246–255 Auto Run
24	Shape Speed	192	0–128 Index 129–191 CW F>S 192–192 Stop 193–255 CCW S>F
25	Red	255	
26	Green	255	
27	Blue	255	
28	White	255	
29	Red	255	
30	Green	255	
31	Blue	255	
32	White	255	
33	Red	255	
34	Green	255	
35	Blue	255	
36	White	255	
37	Red	255	
38	Green	255	
39	Blue	255	
40	White	255	

322Ch

97 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	Zoom	0	
7	Shape Fade	0	
8	Zoom Pos	192	
9	Control1	0	

322Ch (continued)

Ch	Function	Default	DMX values
10	Dimmer	255	
11	Dimmer Fine	255	Fine byte of Dimmer
12	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
13	Dimmer	255	
14	Dimmer Fine	255	Fine byte of Dimmer
15	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
16	Color Macro1	0	
17	C TO	0	
18	Tint	128	
19	Red	255	
20	Green	255	
21	Blue	255	
22	Color Add GY	255	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	
38	Reserved 38	0	
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	

322Ch (continued)

Ch	Function	Default	DMX values
48	Reserved 48	0	
49	Reserved 49	0	
50	Reserved 50	0	
51	Reserved 51	0	
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	Reserved 63	0	
64	Reserved 64	0	
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	Reserved 76	0	
77	Reserved 77	0	
78	Reserved 78	0	
79	Reserved 79	0	
80	Reserved 80	0	
81	Reserved 81	0	
82	Reserved 82	0	
83	Reserved 83	0	
84	Reserved 84	0	
85	Reserved 85	0	
86	Reserved 86	0	
87	Reserved 87	0	
88	Reserved 88	0	
89	Reserved 89	0	
90	Reserved 90	0	
91	Reserved 91	0	
92	Reserved 92	0	

322Ch (continued)

Ch	Function	Default	DMX values
93	Reserved 93	0	
94	Reserved 94	0	
95	Red	255	
96	Green	255	
97	Blue	255	

322CH-Virtual White

97 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	Zoom	0	
7	Shape Fade	0	
8	Zoom Pos	192	
9	Control1	0	
10	Dimmer	255	
11	Dimmer Fine	255	Fine byte of Dimmer
12	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
13	Dimmer	255	
14	Dimmer Fine	255	Fine byte of Dimmer
15	Shutter / Strobe	5	0–5 Open 6–55 Strobe S>F · Rnd S>F 0–25 Hz 56–105 Strobe S>F 106–155 Pulse Strobe 156–205 Pulse Open S>F 206–255 Pulse Close S>F
16	Color Macro1	0	
17	C TO	0	
18	Tint	128	
19	Red	255	
20	Green	255	
21	Blue	255	
22	White	255	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	

322CH-Virtual White (continued)

Ch	Function	Default	DMX values
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	
38	Reserved 38	0	
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	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	
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	Reserved 63	0	
64	Reserved 64	0	
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	

322CH-Virtual White (continued)

Ch	Function	Default	DMX values
75	Reserved 75	0	
76	Reserved 76	0	
77	Reserved 77	0	
78	Reserved 78	0	
79	Reserved 79	0	
80	Reserved 80	0	
81	Reserved 81	0	
82	Reserved 82	0	
83	Reserved 83	0	
84	Reserved 84	0	
85	Reserved 85	0	
86	Reserved 86	0	
87	Reserved 87	0	
88	Reserved 88	0	
89	Reserved 89	0	
90	Reserved 90	0	
91	Reserved 91	0	
92	Reserved 92	0	
93	Reserved 93	0	
94	Reserved 94	0	
95	Red	255	
96	Green	255	
97	Blue	255	