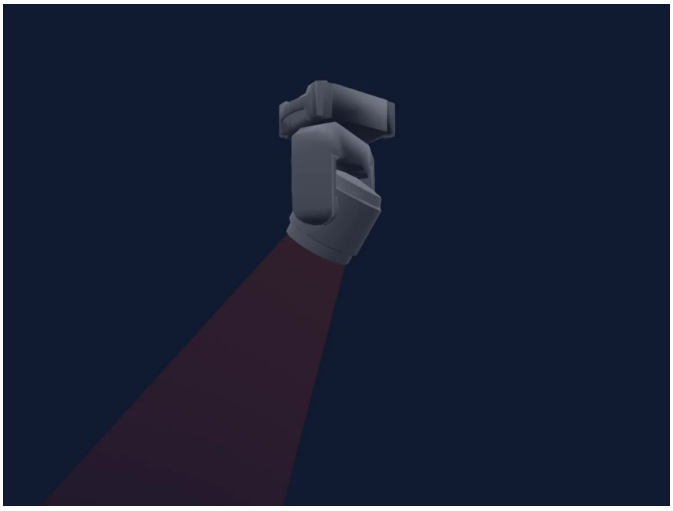
Robe Lighting

Robin LEDBeam 350



Manufacturer	**Robe Lighting**
Type	**Moving head**
DMX modes	**3**
DMX footprint	**16, 22, 24 channels**
Beam angle	**3.8-60°**
Pan range	**540°**
Tilt range	**228°**
Size (W × H × D)	**230 × 221 × 217 mm**
GDTF fixture type	**BA9F98D1-3BAC-4706-AFA9-FB…**

Controls

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

Safety-relevant functions

Fixture reset · Service functions

DMX modes

Mode 2 - Reduced 8 - bit	16 ch
Mode 1 - Standard 16 - bit	22 ch
Mode 3 - Cpulse mode	24 ch

Mode 2 - Reduced 8 - bit

16 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 max 255–255 min
6	Control1	0	0–19 No feature 20–24 Display ON 25–29 Display OFF 30–34 RGBW colour mixing mode 35–39 CMY colour mixing mode 40–44 Pan/Tilt speed mode 45–49 Pan/Tilt time mode 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–64 Dimmer curve - square law 65–69 Dimmer curve - linear 70–74 Fans mode Auto 75–79 Fans mode High 80–84 White point 8000K ON 85–89 White point 8000K OFF 90–94 NoFeature 1 95–99 Pan 540deg 100–104 Pan 450deg 105–109 Fans On at blackout 110–114 Fans Off at blackout 115–116 ON Chromatic white 117–118 OFF Chromatic white 119–139 NoFeature 2 140–149 Pan/Tilt reset 150–159 Zoom reset 160–169 NoFeature 3 170–171 Tungsten effect simulation (750W) On 172–173 Tungsten effect simulation (1000W) On 174–175 Tungsten effect simulation (1200W) On 176–177 Tungsten effect simulation (2000W) On 178–179 Tungsten effect simulation (2500W) On 180–181 Tungsten effect simulation Off 182–199 NoFeature 4 200–209 Total fixture reset 210–218 NoFeature 5 219–220 RoboSpot enabled 221–222 RoboSpot disabled except handle faders and PT 223–224 RoboSpot fully disabled 225–239 NoFeature 6 240–240 Disabled Quiet mode 241–255 Quiet mode min to max

Mode 2 - Reduced 8 - bit (continued)

Ch	Function	Default	DMX values
7	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 25 (Sunset Red) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 36 (Medium Pink) (wheel slot 8) 15–16 Filter 89 (Moss Green) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 49 (Medium Purple) (wheel slot 12) 23–24 Filter 52 (Light Lavender) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 140 (Summer Blue) (wheel slot 16) 31–32 Filter 124 (Dark Green) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 126 (Mauve) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 122 (Fern Green) (wheel slot 24) 47–48 Filter 182 (Light Red) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 798 (Chrysalis Pink) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 143 (Pale Navy Blue) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 194 (Surprise Pink) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 219 (Fluorescent Green) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 2 - Reduced 8 - bit (continued)

Ch	Function	Default	DMX values
8	Red	255	
9	Green	255	
10	Blue	255	
11	White	255	
12	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K
13	Color Mix Mode	45	0–9 Virtual colors (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour Mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Virtual - Colour mix) 70–128 Reserved 129–129 Virtual colors (virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
14	Zoom	128	0–254 Wide 255–255 Narrow
15	Shutter / Strobe	32	0–31 Shutter closed 32–63 Shutter open 64–91 Shutter1Strobe · Slow to fast 1/10 0.1–8.72 Hz 92–95 Shutter1Strobe · Slow to fast 10/10 9.04–10 Hz 96–127 Open 128–140 Shutter1StrobePulseOpen · Slow to fast 1/7 0.1–8.... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 8.68–1... 144–155 Shutter1StrobePulseClose · Fast to slow 1/7 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 160–191 Open 192–222 Strobe random slow 223–223 Strobe random fast 224–255 Open
16	Dimmer	0	0–254 Closed 255–255 Open

Mode 1 - Standard 16 - bit

22 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 max 255–255 min

Mode 1 - Standard 16 - bit (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–19 No feature 20–24 Display ON 25–29 Display OFF 30–34 RGBW colour mixing mode 35–39 CMY colour mixing mode 40–44 Pan/Tilt speed mode 45–49 Pan/Tilt time mode 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–64 Dimmer curve - square law 65–69 Dimmer curve - linear 70–74 Fans mode Auto 75–79 Fans mode High 80–84 White point 8000K ON 85–89 White point 8000K OFF 90–94 NoFeature 1 95–99 Pan 540deg 100–104 Pan 450deg 105–109 Fans On at blackout 110–114 Fans Off at blackout 115–116 ON Chromatic white 117–118 OFF Chromatic white 119–139 NoFeature 2 140–149 Pan/Tilt reset 150–159 Zoom reset 160–169 NoFeature 3 170–171 Tungsten effect simulation (750W) On 172–173 Tungsten effect simulation (1000W) On 174–175 Tungsten effect simulation (1200W) On 176–177 Tungsten effect simulation (2000W) On 178–179 Tungsten effect simulation (2500W) On 180–181 Tungsten effect simulation Off 182–199 NoFeature 4 200–209 Total fixture reset 210–218 NoFeature 5 219–220 RoboSpot enabled 221–222 RoboSpot disabled except handle faders and PT 223–224 RoboSpot fully disabled 225–239 NoFeature 6 240–240 Disabled Quiet mode 241–255 Quiet mode min to max

Mode 1 - Standard 16 - bit (continued)

Ch	Function	Default	DMX values
7	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 25 (Sunset Red) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 36 (Medium Pink) (wheel slot 8) 15–16 Filter 89 (Moss Green) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 49 (Medium Purple) (wheel slot 12) 23–24 Filter 52 (Light Lavender) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 140 (Summer Blue) (wheel slot 16) 31–32 Filter 124 (Dark Green) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 126 (Mauve) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 122 (Fern Green) (wheel slot 24) 47–48 Filter 182 (Light Red) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 798 (Chrysalis Pink) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 143 (Pale Navy Blue) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 194 (Surprise Pink) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 219 (Fluorescent Green) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 1 - Standard 16 - bit (continued)

Ch	Function	Default	DMX values
8	Red	255	
9	Red Fine	255	Fine byte of Red
10	Green	255	
11	Green Fine	255	Fine byte of Green
12	Blue	255	
13	Blue Fine	255	Fine byte of Blue
14	White	255	
15	White Fine	255	Fine byte of White
16	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K
17	Color Mix Mode	45	0–9 Virtual colors (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour Mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Virtual - Colour mix) 70–128 Reserved 129–129 Virtual colors (virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
18	Zoom	128	0–254 Wide 255–255 Narrow
19	Zoom Fine	0	Fine byte of Zoom
20	Shutter / Strobe	32	0–31 Shutter closed 32–63 Shutter open 64–91 Shutter1Strobe · Slow to fast 1/10 0.1–8.72 Hz 92–95 Shutter1Strobe · Slow to fast 10/10 9.04–10 Hz 96–127 Open 128–140 Shutter1StrobePulseOpen · Slow to fast 1/7 0.1–8.... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 8.68–1... 144–155 Shutter1StrobePulseClose · Fast to slow 1/7 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 160–191 Open 192–222 Strobe random slow 223–223 Strobe random fast 224–255 Open
21	Dimmer	0	0–254 Closed 255–255 Open
22	Dimmer Fine	0	Fine byte of Dimmer

Mode 3 - Cpulse mode

24 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 max 255–255 min

Mode 3 - Cpulse mode (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–19 No feature 20–24 Display ON 25–29 Display OFF 30–34 RGBW colour mixing mode 35–39 CMY colour mixing mode 40–44 Pan/Tilt speed mode 45–49 Pan/Tilt time mode 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–64 Dimmer curve - square law 65–69 Dimmer curve - linear 70–74 Fans mode Auto 75–79 Fans mode High 80–84 White point 8000K ON 85–89 White point 8000K OFF 90–94 NoFeature 1 95–99 Pan 540deg 100–104 Pan 450deg 105–109 Fans On at blackout 110–114 Fans Off at blackout 115–116 ON Chromatic white 117–118 OFF Chromatic white 119–139 NoFeature 2 140–149 Pan/Tilt reset 150–159 Zoom reset 160–169 NoFeature 3 170–171 Tungsten effect simulation (750W) On 172–173 Tungsten effect simulation (1000W) On 174–175 Tungsten effect simulation (1200W) On 176–177 Tungsten effect simulation (2000W) On 178–179 Tungsten effect simulation (2500W) On 180–181 Tungsten effect simulation Off 182–199 NoFeature 4 200–209 Total fixture reset 210–218 NoFeature 5 219–220 RoboSpot enabled 221–222 RoboSpot disabled except handle faders and PT 223–224 RoboSpot fully disabled 225–239 NoFeature 6 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
7	L EDFrequency	10	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–29 High 30–255 NoFeature
8	L EDFrequency Adjust	128	

Mode 3 - Cpulse mode (continued)

Ch	Function	Default	DMX values
9	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 25 (Sunset Red) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 36 (Medium Pink) (wheel slot 8) 15–16 Filter 89 (Moss Green) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 49 (Medium Purple) (wheel slot 12) 23–24 Filter 52 (Light Lavender) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 140 (Summer Blue) (wheel slot 16) 31–32 Filter 124 (Dark Green) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 126 (Mauve) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 122 (Fern Green) (wheel slot 24) 47–48 Filter 182 (Light Red) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 798 (Chrysalis Pink) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 143 (Pale Navy Blue) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 194 (Surprise Pink) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 219 (Fluorescent Green) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 3 - Cpulse mode (continued)

Ch	Function	Default	DMX values
10	Red	255	
11	Red Fine	255	Fine byte of Red
12	Green	255	
13	Green Fine	255	Fine byte of Green
14	Blue	255	
15	Blue Fine	255	Fine byte of Blue
16	White	255	
17	White Fine	255	Fine byte of White
18	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K
19	Color Mix Mode	45	0–9 Virtual colors (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour Mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Virtual - Colour mix) 70–128 Reserved 129–129 Virtual colors (virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
20	Zoom	128	0–254 Wide 255–255 Narrow
21	Zoom Fine	0	Fine byte of Zoom
22	Shutter / Strobe	32	0–31 Shutter closed 32–63 Shutter open 64–91 Shutter1Strobe · Slow to fast 1/10 0.1–8.72 Hz 92–95 Shutter1Strobe · Slow to fast 10/10 9.04–10 Hz 96–127 Open 128–140 Shutter1StrobePulseOpen · Slow to fast 1/7 0.1–8.... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 8.68–1... 144–155 Shutter1StrobePulseClose · Fast to slow 1/7 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 160–191 Open 192–222 Strobe random slow 223–223 Strobe random fast 224–255 Open
23	Dimmer	0	0–254 Closed 255–255 Open
24	Dimmer Fine	0	Fine byte of Dimmer