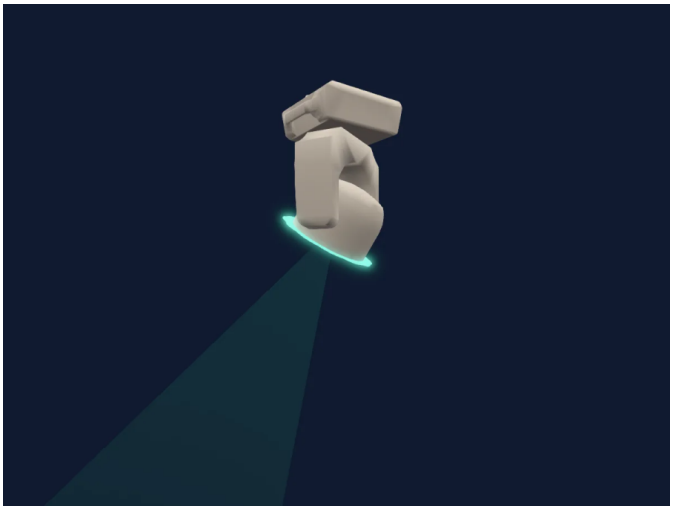
Jolly

LX-1940



Manufacturer	**Jolly**
Type	**Moving head**
DMX modes	**5**
DMX footprint	**10, 15, 21, 37 channels**
Beam angle	**8-63°**
Pan range	**450°**
Tilt range	**300°**
Heads / cells	**3**
Size (W × H × D)	**209 × 156 × 203 mm**
GDTF fixture type	**30BE186F-481F-4475-AAA1-A0…**

Controls

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

Safety-relevant functions

Fixture reset

DMX modes

mode 4	10 ch
mode 3	15 ch
mode 2	21 ch
mode 1	37 ch
mode 5	37 ch

mode 4

10 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 1–1 Max speed time 2–255 Speed/Time max to min
6	Control1	0	0–49 No function 50–59 P/T speed mode 60–69 P/T time mode 70–79 Blackout while P/T moving: ON 80–89 Blackout while P/T moving: OFF 90–99 Theatre mode ON 100–109 Theatre mode OFF 110–139 NoFeature 5 140–149 P/T reset 150–179 NoFeature 7 180–189 Zoom/Beam shaper reset 190–199 NoFeature 9 200–209 Total reset 210–255 NoFeature 11

mode 4 (continued)

Ch	Function	Default	DMX values
7	Color Wheel	0	0–0 Open (wheel slot 1) 1–1 White 2700 K (wheel slot 2) 2–2 White 2700 K (wheel slot 3) 3–3 White 2700 K (Halogen lamp mode) (wheel slot 4) 4–4 White 3200 K (wheel slot 5) 5–5 White 2700 K (wheel slot 6) 6–6 White 3200 K (Halogen lamp mode) (wheel slot 7) 7–7 White 4200 K (wheel slot 8) 8–8 White 4200 K (wheel slot 9) 9–9 White 4200 K (wheel slot 10) 10–10 White 5600 K (wheel slot 11) 11–11 White 4200 K (wheel slot 12) 12–12 White 4200 K (wheel slot 13) 13–13 White 8000 K (wheel slot 14) 14–14 White 8000 K (wheel slot 15) 15–15 White 8000 K (wheel slot 16) 16–16 Blue (wheel slot 17) 17–17 Blue + Green >> 00 (wheel slot 18) 18–18 Blue + Green >> 01 (wheel slot 19) 19–19 Blue + Green >> 02 (wheel slot 20) 20–20 Blue + Green >> 03 (wheel slot 21) 21–21 Blue + Green >> 04 (wheel slot 22) 22–22 Blue + Green >> 05 (wheel slot 23) 23–23 Blue + Green >> 06 (wheel slot 24) 24–24 Blue + Green >> 07 (wheel slot 25) 25–25 Blue + Green >> 08 (wheel slot 26) 26–26 Blue + Green >> 09 (wheel slot 27) 27–27 Blue + Green >> 10 (wheel slot 28) 28–28 Blue + Green >> 11 (wheel slot 29) 29–29 Blue + Green >> 12 (wheel slot 30) 30–30 Blue + Green >> 13 (wheel slot 31) 31–31 Blue + Green >> 14 (wheel slot 32) 32–32 Blue + Green >> 15 (wheel slot 33) 33–33 Blue + Green >> 16 (wheel slot 34) 34–34 Blue + Green >> 17 (wheel slot 35) 35–35 Blue + Green >> 18 (wheel slot 36) 36–36 Blue + Green >> 19 (wheel slot 37) 37–37 Blue + Green >> 20 (wheel slot 38) 38–38 Blue + Green >> 21 (wheel slot 39) 39–39 Blue + Green >> 22 (wheel slot 40) 40–40 Blue + Green >> 23 (wheel slot 41) 41–41 Blue + Green >> 24 (wheel slot 42) 42–42 Blue + Green >> 25 (wheel slot 43) 43–43 Blue + Green >> 26 (wheel slot 44) 44–44 Blue + Green >> 27 (wheel slot 45) 45–45 Blue + Green >> 28 (wheel slot 46) 46–46 Blue + Green >> 29 (wheel slot 47) 47–47 Blue + Green >> 30 (wheel slot 48) 48–48 Blue + Green >> 31 (wheel slot 49) 49–49 Blue + Green >> 32 (wheel slot 50) 50–50 Blue + Green >> 33 (wheel slot 51) 51–51 Blue + Green >> 34 (wheel slot 52) 52–52 Blue + Green >> 35 (wheel slot 53) 53–53 Blue + Green >> 36 (wheel slot 54) 54–54 Blue + Green >> 37 (wheel slot 55) 55–55 Blue + Green >> 38 (wheel slot 56) 56–56 LightBlue (wheel slot 57) 57–57 Green + Blue << 00 (wheel slot 58) 58–58 Green + Blue << 01 (wheel slot 59) 59–59 Green + Blue << 02 (wheel slot 60) 60–60 Green + Blue << 03 (wheel slot 61) 61–61 Green + Blue << 04 (wheel slot 62) 62–62 Green + Blue << 05 (wheel slot 63) 63–63 Green + Blue << 06 (wheel slot 64)

mode 4 (continued)

Ch	Function	Default	DMX values
8	Zoom	128	0–254 narrow 255–255 wide
9	Shutter / Strobe	0	0–31 Shutter closed 32–34 StrobeZone 3 · Slow to fast 1/10 0.303–1.59 Hz 35–36 StrobeZone 3 · Slow to fast 2/10 2.23–2.87 Hz 37–39 StrobeZone 3 · Slow to fast 3/10 3.51–4.8 Hz 40–42 StrobeZone 3 · Slow to fast 4/10 5.44–6.72 Hz 43–46 StrobeZone 3 · Slow to fast 5/10 7.36–9.29 Hz 47–50 StrobeZone 3 · Slow to fast 6/10 9.93–11.9 Hz 51–53 StrobeZone 3 · Slow to fast 7/10 12.5–13.8 Hz 54–56 StrobeZone 3 · Slow to fast 8/10 14.4–15.7 Hz 57–59 StrobeZone 3 · Slow to fast 9/10 16.4–17.6 Hz 60–63 StrobeZone 3 · Slow to fast 10/10 18.3–20.2 Hz 64–66 StrobeAllZones 1 · Slow to fast 1/10 0.303–1.59 Hz 67–68 StrobeAllZones 1 · Slow to fast 2/10 2.23–2.87 Hz 69–71 StrobeAllZones 1 · Slow to fast 3/10 3.51–4.8 Hz 72–74 StrobeAllZones 1 · Slow to fast 4/10 5.44–6.72 Hz 75–78 StrobeAllZones 1 · Slow to fast 5/10 7.36–9.29 Hz 79–82 StrobeAllZones 1 · Slow to fast 6/10 9.93–11.9 Hz 83–85 StrobeAllZones 1 · Slow to fast 7/10 12.5–13.8 Hz 86–88 StrobeAllZones 1 · Slow to fast 8/10 14.4–15.7 Hz 89–91 StrobeAllZones 1 · Slow to fast 9/10 16.4–17.6 Hz 92–95 StrobeAllZones 1 · Slow to fast 10/10 18.3–20.2 Hz 96–111 StrobeEffects · Zone + Rainbow effects slow to fast ... 112–127 StrobeEffects · Zone + Rainbow effects fast to slow... 128–130 Shutter1StrobePulseOpen · Slow to fast 1/7 0.126–... 131–132 Shutter1StrobePulseOpen · Slow to fast 2/7 0.202–... 133–134 Shutter1StrobePulseOpen · Slow to fast 3/7 0.252–... 135–136 Shutter1StrobePulseOpen · Slow to fast 4/7 0.302–... 137–138 Shutter1StrobePulseOpen · Slow to fast 5/7 0.353–... 139–140 Shutter1StrobePulseOpen · Slow to fast 6/7 0.403–... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 0.454–... 144–145 Shutter1StrobePulseClose · Fast to slow 1/7 0.504–... 146–147 Shutter1StrobePulseClose · Fast to slow 2/7 0.454–... 148–150 Shutter1StrobePulseClose · Fast to slow 3/7 0.403–... 151–151 Shutter1StrobePulseClose · Fast to slow 4/7 0.328 ... 152–153 Shutter1StrobePulseClose · Fast to slow 5/7 0.302–... 154–155 Shutter1StrobePulseClose · Fast to sloe 6/7 0.252–... 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 0.202–... 160–175 Random zone effect slow to fast 176–191 Random zone + strobe effect slow to fast 192–223 Random strobe slow to fast (all zones) 224–239 Random strobe slow to fast (random LEDs) 240–255 Shutter open
10	Dimmer	0	0–254 Closed (wheel slot -2147483648) 255–255 Open (wheel slot -2147483648)

mode 3

15 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 1–1 Max speed time 2–255 Speed/Time max to min

mode 3 (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–49 No function 50–59 P/T speed mode 60–69 P/T time mode 70–79 Blackout while P/T moving: ON 80–89 Blackout while P/T moving: OFF 90–99 Theatre mode ON 100–109 Theatre mode OFF 110–139 NoFeature 5 140–149 P/T reset 150–179 NoFeature 7 180–189 Zoom/Beam shaper reset 190–199 NoFeature 9 200–209 Total reset 210–255 NoFeature 11
7	Red	255	
8	Green	255	
9	Blue	255	
10	White	255	
11	C TC	0	0–254 15500K 255–255 2700K

mode 3 (continued)

Ch	Function	Default	DMX values
12	Color Wheel	0	0–0 Open (wheel slot 1) 1–1 White 2700 K (wheel slot 2) 2–2 White 2700 K (wheel slot 3) 3–3 White 2700 K (Halogen lamp mode) (wheel slot 4) 4–4 White 3200 K (wheel slot 5) 5–5 White 2700 K (wheel slot 6) 6–6 White 3200 K (Halogen lamp mode) (wheel slot 7) 7–7 White 4200 K (wheel slot 8) 8–8 White 4200 K (wheel slot 9) 9–9 White 4200 K (wheel slot 10) 10–10 White 5600 K (wheel slot 11) 11–11 White 4200 K (wheel slot 12) 12–12 White 4200 K (wheel slot 13) 13–13 White 8000 K (wheel slot 14) 14–14 White 8000 K (wheel slot 15) 15–15 White 8000 K (wheel slot 16) 16–16 Blue (wheel slot 17) 17–17 Blue + Green >> 00 (wheel slot 18) 18–18 Blue + Green >> 01 (wheel slot 19) 19–19 Blue + Green >> 02 (wheel slot 20) 20–20 Blue + Green >> 03 (wheel slot 21) 21–21 Blue + Green >> 04 (wheel slot 22) 22–22 Blue + Green >> 05 (wheel slot 23) 23–23 Blue + Green >> 06 (wheel slot 24) 24–24 Blue + Green >> 07 (wheel slot 25) 25–25 Blue + Green >> 08 (wheel slot 26) 26–26 Blue + Green >> 09 (wheel slot 27) 27–27 Blue + Green >> 10 (wheel slot 28) 28–28 Blue + Green >> 11 (wheel slot 29) 29–29 Blue + Green >> 12 (wheel slot 30) 30–30 Blue + Green >> 13 (wheel slot 31) 31–31 Blue + Green >> 14 (wheel slot 32) 32–32 Blue + Green >> 15 (wheel slot 33) 33–33 Blue + Green >> 16 (wheel slot 34) 34–34 Blue + Green >> 17 (wheel slot 35) 35–35 Blue + Green >> 18 (wheel slot 36) 36–36 Blue + Green >> 19 (wheel slot 37) 37–37 Blue + Green >> 20 (wheel slot 38) 38–38 Blue + Green >> 21 (wheel slot 39) 39–39 Blue + Green >> 22 (wheel slot 40) 40–40 Blue + Green >> 23 (wheel slot 41) 41–41 Blue + Green >> 24 (wheel slot 42) 42–42 Blue + Green >> 25 (wheel slot 43) 43–43 Blue + Green >> 26 (wheel slot 44) 44–44 Blue + Green >> 27 (wheel slot 45) 45–45 Blue + Green >> 28 (wheel slot 46) 46–46 Blue + Green >> 29 (wheel slot 47) 47–47 Blue + Green >> 30 (wheel slot 48) 48–48 Blue + Green >> 31 (wheel slot 49) 49–49 Blue + Green >> 32 (wheel slot 50) 50–50 Blue + Green >> 33 (wheel slot 51) 51–51 Blue + Green >> 34 (wheel slot 52) 52–52 Blue + Green >> 35 (wheel slot 53) 53–53 Blue + Green >> 36 (wheel slot 54) 54–54 Blue + Green >> 37 (wheel slot 55) 55–55 Blue + Green >> 38 (wheel slot 56) 56–56 LightBlue (wheel slot 57) 57–57 Green + Blue << 00 (wheel slot 58) 58–58 Green + Blue << 01 (wheel slot 59) 59–59 Green + Blue << 02 (wheel slot 60) 60–60 Green + Blue << 03 (wheel slot 61) 61–61 Green + Blue << 04 (wheel slot 62) 62–62 Green + Blue << 05 (wheel slot 63) 63–63 Green + Blue << 06 (wheel slot 64)

mode 3 (continued)

Ch	Function	Default	DMX values
13	Zoom	128	0–254 narrow 255–255 wide
14	Shutter / Strobe	0	0–31 Shutter closed 32–34 StrobeZone 3 · Slow to fast 1/10 0.303–1.59 Hz 35–36 StrobeZone 3 · Slow to fast 2/10 2.23–2.87 Hz 37–39 StrobeZone 3 · Slow to fast 3/10 3.51–4.8 Hz 40–42 StrobeZone 3 · Slow to fast 4/10 5.44–6.72 Hz 43–46 StrobeZone 3 · Slow to fast 5/10 7.36–9.29 Hz 47–50 StrobeZone 3 · Slow to fast 6/10 9.93–11.9 Hz 51–53 StrobeZone 3 · Slow to fast 7/10 12.5–13.8 Hz 54–56 StrobeZone 3 · Slow to fast 8/10 14.4–15.7 Hz 57–59 StrobeZone 3 · Slow to fast 9/10 16.4–17.6 Hz 60–63 StrobeZone 3 · Slow to fast 10/10 18.3–20.2 Hz 64–66 StrobeAllZones 1 · Slow to fast 1/10 0.303–1.59 Hz 67–68 StrobeAllZones 1 · Slow to fast 2/10 2.23–2.87 Hz 69–71 StrobeAllZones 1 · Slow to fast 3/10 3.51–4.8 Hz 72–74 StrobeAllZones 1 · Slow to fast 4/10 5.44–6.72 Hz 75–78 StrobeAllZones 1 · Slow to fast 5/10 7.36–9.29 Hz 79–82 StrobeAllZones 1 · Slow to fast 6/10 9.93–11.9 Hz 83–85 StrobeAllZones 1 · Slow to fast 7/10 12.5–13.8 Hz 86–88 StrobeAllZones 1 · Slow to fast 8/10 14.4–15.7 Hz 89–91 StrobeAllZones 1 · Slow to fast 9/10 16.4–17.6 Hz 92–95 StrobeAllZones 1 · Slow to fast 10/10 18.3–20.2 Hz 96–111 StrobeEffects · Zone + Rainbow effects slow to fast ... 112–127 StrobeEffects · Zone + Rainbow effects fast to slow... 128–130 Shutter1StrobePulseOpen · Slow to fast 1/7 0.126–... 131–132 Shutter1StrobePulseOpen · Slow to fast 2/7 0.202–... 133–134 Shutter1StrobePulseOpen · Slow to fast 3/7 0.252–... 135–136 Shutter1StrobePulseOpen · Slow to fast 4/7 0.302–... 137–138 Shutter1StrobePulseOpen · Slow to fast 5/7 0.353–... 139–140 Shutter1StrobePulseOpen · Slow to fast 6/7 0.403–... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 0.454–... 144–145 Shutter1StrobePulseClose · Fast to slow 1/7 0.504–... 146–147 Shutter1StrobePulseClose · Fast to slow 2/7 0.454–... 148–150 Shutter1StrobePulseClose · Fast to slow 3/7 0.403–... 151–151 Shutter1StrobePulseClose · Fast to slow 4/7 0.328 ... 152–153 Shutter1StrobePulseClose · Fast to slow 5/7 0.302–... 154–155 Shutter1StrobePulseClose · Fast to sloe 6/7 0.252–... 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 0.202–... 160–175 Random zone effect slow to fast 176–191 Random zone + strobe effect slow to fast 192–223 Random strobe slow to fast (all zones) 224–239 Random strobe slow to fast (random LEDs) 240–255 Shutter open
15	Dimmer	0	0–254 Closed (wheel slot -2147483648) 255–255 Open (wheel slot -2147483648)

mode 2

21 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 1–1 Max speed time 2–255 Speed/Time max to min

mode 2 (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–49 No function 50–59 P/T speed mode 60–69 P/T time mode 70–79 Blackout while P/T moving: ON 80–89 Blackout while P/T moving: OFF 90–99 Theatre mode ON 100–109 Theatre mode OFF 110–139 NoFeature 5 140–149 P/T reset 150–179 NoFeature 7 180–189 Zoom/Beam shaper reset 190–199 NoFeature 9 200–209 Total reset 210–255 NoFeature 11
7	Red	255	
8	Red Fine	255	Fine byte of Red
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	White	255	
14	White Fine	253	Fine byte of White
15	C TC	0	0–254 15500K 255–255 2700K

mode 2 (continued)

Ch	Function	Default	DMX values
16	Color Wheel	0	0–0 Open (wheel slot 1) 1–1 White 2700 K (wheel slot 2) 2–2 White 2700 K (wheel slot 3) 3–3 White 2700 K (Halogen lamp mode) (wheel slot 4) 4–4 White 3200 K (wheel slot 5) 5–5 White 2700 K (wheel slot 6) 6–6 White 3200 K (Halogen lamp mode) (wheel slot 7) 7–7 White 4200 K (wheel slot 8) 8–8 White 4200 K (wheel slot 9) 9–9 White 4200 K (wheel slot 10) 10–10 White 5600 K (wheel slot 11) 11–11 White 4200 K (wheel slot 12) 12–12 White 4200 K (wheel slot 13) 13–13 White 8000 K (wheel slot 14) 14–14 White 8000 K (wheel slot 15) 15–15 White 8000 K (wheel slot 16) 16–16 Blue (wheel slot 17) 17–17 Blue + Green >> 00 (wheel slot 18) 18–18 Blue + Green >> 01 (wheel slot 19) 19–19 Blue + Green >> 02 (wheel slot 20) 20–20 Blue + Green >> 03 (wheel slot 21) 21–21 Blue + Green >> 04 (wheel slot 22) 22–22 Blue + Green >> 05 (wheel slot 23) 23–23 Blue + Green >> 06 (wheel slot 24) 24–24 Blue + Green >> 07 (wheel slot 25) 25–25 Blue + Green >> 08 (wheel slot 26) 26–26 Blue + Green >> 09 (wheel slot 27) 27–27 Blue + Green >> 10 (wheel slot 28) 28–28 Blue + Green >> 11 (wheel slot 29) 29–29 Blue + Green >> 12 (wheel slot 30) 30–30 Blue + Green >> 13 (wheel slot 31) 31–31 Blue + Green >> 14 (wheel slot 32) 32–32 Blue + Green >> 15 (wheel slot 33) 33–33 Blue + Green >> 16 (wheel slot 34) 34–34 Blue + Green >> 17 (wheel slot 35) 35–35 Blue + Green >> 18 (wheel slot 36) 36–36 Blue + Green >> 19 (wheel slot 37) 37–37 Blue + Green >> 20 (wheel slot 38) 38–38 Blue + Green >> 21 (wheel slot 39) 39–39 Blue + Green >> 22 (wheel slot 40) 40–40 Blue + Green >> 23 (wheel slot 41) 41–41 Blue + Green >> 24 (wheel slot 42) 42–42 Blue + Green >> 25 (wheel slot 43) 43–43 Blue + Green >> 26 (wheel slot 44) 44–44 Blue + Green >> 27 (wheel slot 45) 45–45 Blue + Green >> 28 (wheel slot 46) 46–46 Blue + Green >> 29 (wheel slot 47) 47–47 Blue + Green >> 30 (wheel slot 48) 48–48 Blue + Green >> 31 (wheel slot 49) 49–49 Blue + Green >> 32 (wheel slot 50) 50–50 Blue + Green >> 33 (wheel slot 51) 51–51 Blue + Green >> 34 (wheel slot 52) 52–52 Blue + Green >> 35 (wheel slot 53) 53–53 Blue + Green >> 36 (wheel slot 54) 54–54 Blue + Green >> 37 (wheel slot 55) 55–55 Blue + Green >> 38 (wheel slot 56) 56–56 LightBlue (wheel slot 57) 57–57 Green + Blue << 00 (wheel slot 58) 58–58 Green + Blue << 01 (wheel slot 59) 59–59 Green + Blue << 02 (wheel slot 60) 60–60 Green + Blue << 03 (wheel slot 61) 61–61 Green + Blue << 04 (wheel slot 62) 62–62 Green + Blue << 05 (wheel slot 63) 63–63 Green + Blue << 06 (wheel slot 64)

mode 2 (continued)

Ch	Function	Default	DMX values
17	Zoom	128	0–254 narrow 255–255 wide
18	Zoom Fine	0	Fine byte of Zoom
19	Shutter / Strobe	0	0–31 Shutter closed 32–34 StrobeZone 3 · Slow to fast 1/10 0.303–1.59 Hz 35–36 StrobeZone 3 · Slow to fast 2/10 2.23–2.87 Hz 37–39 StrobeZone 3 · Slow to fast 3/10 3.51–4.8 Hz 40–42 StrobeZone 3 · Slow to fast 4/10 5.44–6.72 Hz 43–46 StrobeZone 3 · Slow to fast 5/10 7.36–9.29 Hz 47–50 StrobeZone 3 · Slow to fast 6/10 9.93–11.9 Hz 51–53 StrobeZone 3 · Slow to fast 7/10 12.5–13.8 Hz 54–56 StrobeZone 3 · Slow to fast 8/10 14.4–15.7 Hz 57–59 StrobeZone 3 · Slow to fast 9/10 16.4–17.6 Hz 60–63 StrobeZone 3 · Slow to fast 10/10 18.3–20.2 Hz 64–66 StrobeAllZones 1 · Slow to fast 1/10 0.303–1.59 Hz 67–68 StrobeAllZones 1 · Slow to fast 2/10 2.23–2.87 Hz 69–71 StrobeAllZones 1 · Slow to fast 3/10 3.51–4.8 Hz 72–74 StrobeAllZones 1 · Slow to fast 4/10 5.44–6.72 Hz 75–78 StrobeAllZones 1 · Slow to fast 5/10 7.36–9.29 Hz 79–82 StrobeAllZones 1 · Slow to fast 6/10 9.93–11.9 Hz 83–85 StrobeAllZones 1 · Slow to fast 7/10 12.5–13.8 Hz 86–88 StrobeAllZones 1 · Slow to fast 8/10 14.4–15.7 Hz 89–91 StrobeAllZones 1 · Slow to fast 9/10 16.4–17.6 Hz 92–95 StrobeAllZones 1 · Slow to fast 10/10 18.3–20.2 Hz 96–111 StrobeEffects · Zone + Rainbow effects slow to fast ... 112–127 StrobeEffects · Zone + Rainbow effects fast to slow... 128–130 Shutter1StrobePulseOpen · Slow to fast 1/7 0.126–... 131–132 Shutter1StrobePulseOpen · Slow to fast 2/7 0.202–... 133–134 Shutter1StrobePulseOpen · Slow to fast 3/7 0.252–... 135–136 Shutter1StrobePulseOpen · Slow to fast 4/7 0.302–... 137–138 Shutter1StrobePulseOpen · Slow to fast 5/7 0.353–... 139–140 Shutter1StrobePulseOpen · Slow to fast 6/7 0.403–... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 0.454–... 144–145 Shutter1StrobePulseClose · Fast to slow 1/7 0.504–... 146–147 Shutter1StrobePulseClose · Fast to slow 2/7 0.454–... 148–150 Shutter1StrobePulseClose · Fast to slow 3/7 0.403–... 151–151 Shutter1StrobePulseClose · Fast to slow 4/7 0.328 ... 152–153 Shutter1StrobePulseClose · Fast to slow 5/7 0.302–... 154–155 Shutter1StrobePulseClose · Fast to sloe 6/7 0.252–... 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 0.202–... 160–175 Random zone effect slow to fast 176–191 Random zone + strobe effect slow to fast 192–223 Random strobe slow to fast (all zones) 224–239 Random strobe slow to fast (random LEDs) 240–255 Shutter open
20	Dimmer	0	0–254 Closed (wheel slot -2147483648) 255–255 Open (wheel slot -2147483648)
21	Dimmer Fine	0	Fine byte of Dimmer

mode 1

37 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

mode 1 (continued)

Ch	Function	Default	DMX values
5	Position MSpeed	0	0–0 Standard mode 1–254 Max speed time 255–255 Min speed time
6	Control1	0	0–49 No function 50–59 P/T speed mode 60–69 P/T time mode 70–79 Blackout while P/T moving: ON 80–89 Blackout while P/T moving: OFF 90–99 Theatre mode ON 100–109 Theatre mode OFF 110–139 NoFeature 5 140–149 P/T reset 150–179 NoFeature 7 180–189 Zoom/Beam shaper reset 190–199 NoFeature 9 200–209 Total reset 210–255 NoFeature 11
7	Red	255	
8	Red Fine	255	Fine byte of Red
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	White	255	
14	White Fine	255	Fine byte of White
15	Red	255	
16	Red Fine	255	Fine byte of Red
17	Green	255	
18	Green Fine	255	Fine byte of Green
19	Blue	255	
20	Blue Fine	255	Fine byte of Blue
21	White	255	
22	White Fine	255	Fine byte of White
23	Red	255	
24	Red Fine	255	Fine byte of Red
25	Green	255	
26	Green Fine	255	Fine byte of Green
27	Blue	255	
28	Blue Fine	255	Fine byte of Blue
29	White	255	
30	White Fine	255	Fine byte of White
31	C TC	0	0–254 15500K 255–255 2700K

mode 1 (continued)

Ch	Function	Default	DMX values
32	Color Wheel	0	0–0 Open (wheel slot 1) 1–1 White 2700 K (wheel slot 2) 2–2 White 2700 K (wheel slot 3) 3–3 White 2700 K (Halogen lamp mode) (wheel slot 4) 4–4 White 3200 K (wheel slot 5) 5–5 White 2700 K (wheel slot 6) 6–6 White 3200 K (Halogen lamp mode) (wheel slot 7) 7–7 White 4200 K (wheel slot 8) 8–8 White 4200 K (wheel slot 9) 9–9 White 4200 K (wheel slot 10) 10–10 White 5600 K (wheel slot 11) 11–11 White 4200 K (wheel slot 12) 12–12 White 4200 K (wheel slot 13) 13–13 White 8000 K (wheel slot 14) 14–14 White 8000 K (wheel slot 15) 15–15 White 8000 K (wheel slot 16) 16–16 Blue (wheel slot 17) 17–17 Blue + Green >> 00 (wheel slot 18) 18–18 Blue + Green >> 01 (wheel slot 19) 19–19 Blue + Green >> 02 (wheel slot 20) 20–20 Blue + Green >> 03 (wheel slot 21) 21–21 Blue + Green >> 04 (wheel slot 22) 22–22 Blue + Green >> 05 (wheel slot 23) 23–23 Blue + Green >> 06 (wheel slot 24) 24–24 Blue + Green >> 07 (wheel slot 25) 25–25 Blue + Green >> 08 (wheel slot 26) 26–26 Blue + Green >> 09 (wheel slot 27) 27–27 Blue + Green >> 10 (wheel slot 28) 28–28 Blue + Green >> 11 (wheel slot 29) 29–29 Blue + Green >> 12 (wheel slot 30) 30–30 Blue + Green >> 13 (wheel slot 31) 31–31 Blue + Green >> 14 (wheel slot 32) 32–32 Blue + Green >> 15 (wheel slot 33) 33–33 Blue + Green >> 16 (wheel slot 34) 34–34 Blue + Green >> 17 (wheel slot 35) 35–35 Blue + Green >> 18 (wheel slot 36) 36–36 Blue + Green >> 19 (wheel slot 37) 37–37 Blue + Green >> 20 (wheel slot 38) 38–38 Blue + Green >> 21 (wheel slot 39) 39–39 Blue + Green >> 22 (wheel slot 40) 40–40 Blue + Green >> 23 (wheel slot 41) 41–41 Blue + Green >> 24 (wheel slot 42) 42–42 Blue + Green >> 25 (wheel slot 43) 43–43 Blue + Green >> 26 (wheel slot 44) 44–44 Blue + Green >> 27 (wheel slot 45) 45–45 Blue + Green >> 28 (wheel slot 46) 46–46 Blue + Green >> 29 (wheel slot 47) 47–47 Blue + Green >> 30 (wheel slot 48) 48–48 Blue + Green >> 31 (wheel slot 49) 49–49 Blue + Green >> 32 (wheel slot 50) 50–50 Blue + Green >> 33 (wheel slot 51) 51–51 Blue + Green >> 34 (wheel slot 52) 52–52 Blue + Green >> 35 (wheel slot 53) 53–53 Blue + Green >> 36 (wheel slot 54) 54–54 Blue + Green >> 37 (wheel slot 55) 55–55 Blue + Green >> 38 (wheel slot 56) 56–56 LightBlue (wheel slot 57) 57–57 Green + Blue << 00 (wheel slot 58) 58–58 Green + Blue << 01 (wheel slot 59) 59–59 Green + Blue << 02 (wheel slot 60) 60–60 Green + Blue << 03 (wheel slot 61) 61–61 Green + Blue << 04 (wheel slot 62) 62–62 Green + Blue << 05 (wheel slot 63) 63–63 Green + Blue << 06 (wheel slot 64)

mode 1 (continued)

Ch	Function	Default	DMX values
33	Zoom	128	0–254 narrow 255–255 wide
34	Zoom Fine	0	Fine byte of Zoom
35	Shutter / Strobe	0	0–31 Shutter closed 32–34 StrobeZone 3 · Slow to fast 1/10 0.303–1.59 Hz 35–36 StrobeZone 3 · Slow to fast 2/10 2.23–2.87 Hz 37–39 StrobeZone 3 · Slow to fast 3/10 3.51–4.8 Hz 40–42 StrobeZone 3 · Slow to fast 4/10 5.44–6.72 Hz 43–46 StrobeZone 3 · Slow to fast 5/10 7.36–9.29 Hz 47–50 StrobeZone 3 · Slow to fast 6/10 9.93–11.9 Hz 51–53 StrobeZone 3 · Slow to fast 7/10 12.5–13.8 Hz 54–56 StrobeZone 3 · Slow to fast 8/10 14.4–15.7 Hz 57–59 StrobeZone 3 · Slow to fast 9/10 16.4–17.6 Hz 60–63 StrobeZone 3 · Slow to fast 10/10 18.3–20.2 Hz 64–66 StrobeAllZones 1 · Slow to fast 1/10 0.303–1.59 Hz 67–68 StrobeAllZones 1 · Slow to fast 2/10 2.23–2.87 Hz 69–71 StrobeAllZones 1 · Slow to fast 3/10 3.51–4.8 Hz 72–74 StrobeAllZones 1 · Slow to fast 4/10 5.44–6.72 Hz 75–78 StrobeAllZones 1 · Slow to fast 5/10 7.36–9.29 Hz 79–82 StrobeAllZones 1 · Slow to fast 6/10 9.93–11.9 Hz 83–85 StrobeAllZones 1 · Slow to fast 7/10 12.5–13.8 Hz 86–88 StrobeAllZones 1 · Slow to fast 8/10 14.4–15.7 Hz 89–91 StrobeAllZones 1 · Slow to fast 9/10 16.4–17.6 Hz 92–95 StrobeAllZones 1 · Slow to fast 10/10 18.3–20.2 Hz 96–111 StrobeEffects · Zone + Rainbow effects slow to fast ... 112–127 StrobeEffects · Zone + Rainbow effects fast to slow... 128–130 Shutter1StrobePulseOpen · Slow to fast 1/7 0.126–... 131–132 Shutter1StrobePulseOpen · Slow to fast 2/7 0.202–... 133–134 Shutter1StrobePulseOpen · Slow to fast 3/7 0.252–... 135–136 Shutter1StrobePulseOpen · Slow to fast 4/7 0.302–... 137–138 Shutter1StrobePulseOpen · Slow to fast 5/7 0.353–... 139–140 Shutter1StrobePulseOpen · Slow to fast 6/7 0.403–... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 0.454–... 144–145 Shutter1StrobePulseClose · Fast to slow 1/7 0.504–... 146–147 Shutter1StrobePulseClose · Fast to slow 2/7 0.454–... 148–150 Shutter1StrobePulseClose · Fast to slow 3/7 0.403–... 151–151 Shutter1StrobePulseClose · Fast to slow 4/7 0.328 ... 152–153 Shutter1StrobePulseClose · Fast to slow 5/7 0.302–... 154–155 Shutter1StrobePulseClose · Fast to sloe 6/7 0.252–... 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 0.202–... 160–175 Random zone effect slow to fast 176–191 Random zone + strobe effect slow to fast 192–223 Random strobe slow to fast (all zones) 224–239 Random strobe slow to fast (random LEDs) 240–255 Shutter open
36	Dimmer	0	0–254 Closed 255–255 Open
37	Dimmer Fine	0	Fine byte of Dimmer

mode 5

37 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

mode 5 (continued)

Ch	Function	Default	DMX values
5	Position MSpeed	0	0–0 Standard mode 1–1 Max speed time 2–255 Speed/Time max to min
6	Control1	0	0–49 No function 50–59 P/T speed mode 60–69 P/T time mode 70–79 Blackout while P/T moving: ON 80–89 Blackout while P/T moving: OFF 90–99 Theatre mode ON 100–109 Theatre mode OFF 110–139 NoFeature 5 140–149 P/T reset 150–179 NoFeature 7 180–189 Zoom/Beam shaper reset 190–199 NoFeature 9 200–209 Total reset 210–255 NoFeature 11
7	Zoom	128	0–254 narrow 255–255 wide
8	Zoom Fine	0	Fine byte of Zoom

mode 5 (continued)

Ch	Function	Default	DMX values
9	Shutter / Strobe	0	0–31 Shutter closed 32–34 StrobeZone 3 · Slow to fast 1/10 0.303–1.59 Hz 35–36 StrobeZone 3 · Slow to fast 2/10 2.23–2.87 Hz 37–39 StrobeZone 3 · Slow to fast 3/10 3.51–4.8 Hz 40–42 StrobeZone 3 · Slow to fast 4/10 5.44–6.72 Hz 43–46 StrobeZone 3 · Slow to fast 5/10 7.36–9.29 Hz 47–50 StrobeZone 3 · Slow to fast 6/10 9.93–11.9 Hz 51–53 StrobeZone 3 · Slow to fast 7/10 12.5–13.8 Hz 54–56 StrobeZone 3 · Slow to fast 8/10 14.4–15.7 Hz 57–59 StrobeZone 3 · Slow to fast 9/10 16.4–17.6 Hz 60–63 StrobeZone 3 · Slow to fast 10/10 18.3–20.2 Hz 64–66 StrobeAllZones 1 · Slow to fast 1/10 0.303–1.59 Hz 67–68 StrobeAllZones 1 · Slow to fast 2/10 2.23–2.87 Hz 69–71 StrobeAllZones 1 · Slow to fast 3/10 3.51–4.8 Hz 72–74 StrobeAllZones 1 · Slow to fast 4/10 5.44–6.72 Hz 75–78 StrobeAllZones 1 · Slow to fast 5/10 7.36–9.29 Hz 79–82 StrobeAllZones 1 · Slow to fast 6/10 9.93–11.9 Hz 83–85 StrobeAllZones 1 · Slow to fast 7/10 12.5–13.8 Hz 86–88 StrobeAllZones 1 · Slow to fast 8/10 14.4–15.7 Hz 89–91 StrobeAllZones 1 · Slow to fast 9/10 16.4–17.6 Hz 92–95 StrobeAllZones 1 · Slow to fast 10/10 18.3–20.2 Hz 96–111 StrobeEffects · Zone + Rainbow effects slow to fast … 112–127 StrobeEffects · Zone + Rainbow effects fast to slow… 128–130 Shutter1StrobePulseOpen · Slow to fast 1/7 0.126–… 131–132 Shutter1StrobePulseOpen · Slow to fast 2/7 0.202–… 133–134 Shutter1StrobePulseOpen · Slow to fast 3/7 0.252–… 135–136 Shutter1StrobePulseOpen · Slow to fast 4/7 0.302–… 137–138 Shutter1StrobePulseOpen · Slow to fast 5/7 0.353–… 139–140 Shutter1StrobePulseOpen · Slow to fast 6/7 0.403–… 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 0.454–… 144–145 Shutter1StrobePulseClose · Fast to slow 1/7 0.504–… 146–147 Shutter1StrobePulseClose · Fast to slow 2/7 0.454–… 148–150 Shutter1StrobePulseClose · Fast to slow 3/7 0.403–… 151–151 Shutter1StrobePulseClose · Fast to slow 4/7 0.328 … 152–153 Shutter1StrobePulseClose · Fast to slow 5/7 0.302–… 154–155 Shutter1StrobePulseClose · Fast to sloe 6/7 0.252–… 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 0.202–… 160–175 Random zone effect slow to fast 176–191 Random zone + strobe effect slow to fast 192–223 Random strobe slow to fast (all zones) 224–239 Random strobe slow to fast (random LEDs) 240–255 Shutter open
10	Dimmer	0	0–254 Closed (wheel slot -2147483648) 255–255 Open (wheel slot -2147483648)
11	Dimmer Fine	0	Fine byte of Dimmer
12	C TC	0	0–254 15500K 255–255 2700K

mode 5 (continued)

Ch	Function	Default	DMX values
13	Color Wheel	0	0–0 Open (wheel slot 1) 1–1 White 2700 K (wheel slot 2) 2–2 White 2700 K (wheel slot 3) 3–3 White 2700 K (Halogen lamp mode) (wheel slot 4) 4–4 White 3200 K (wheel slot 5) 5–5 White 2700 K (wheel slot 6) 6–6 White 3200 K (Halogen lamp mode) (wheel slot 7) 7–7 White 4200 K (wheel slot 8) 8–8 White 4200 K (wheel slot 9) 9–9 White 4200 K (wheel slot 10) 10–10 White 5600 K (wheel slot 11) 11–11 White 4200 K (wheel slot 12) 12–12 White 4200 K (wheel slot 13) 13–13 White 8000 K (wheel slot 14) 14–14 White 8000 K (wheel slot 15) 15–15 White 8000 K (wheel slot 16) 16–16 Blue (wheel slot 17) 17–17 Blue + Green >> 00 (wheel slot 18) 18–18 Blue + Green >> 01 (wheel slot 19) 19–19 Blue + Green >> 02 (wheel slot 20) 20–20 Blue + Green >> 03 (wheel slot 21) 21–21 Blue + Green >> 04 (wheel slot 22) 22–22 Blue + Green >> 05 (wheel slot 23) 23–23 Blue + Green >> 06 (wheel slot 24) 24–24 Blue + Green >> 07 (wheel slot 25) 25–25 Blue + Green >> 08 (wheel slot 26) 26–26 Blue + Green >> 09 (wheel slot 27) 27–27 Blue + Green >> 10 (wheel slot 28) 28–28 Blue + Green >> 11 (wheel slot 29) 29–29 Blue + Green >> 12 (wheel slot 30) 30–30 Blue + Green >> 13 (wheel slot 31) 31–31 Blue + Green >> 14 (wheel slot 32) 32–32 Blue + Green >> 15 (wheel slot 33) 33–33 Blue + Green >> 16 (wheel slot 34) 34–34 Blue + Green >> 17 (wheel slot 35) 35–35 Blue + Green >> 18 (wheel slot 36) 36–36 Blue + Green >> 19 (wheel slot 37) 37–37 Blue + Green >> 20 (wheel slot 38) 38–38 Blue + Green >> 21 (wheel slot 39) 39–39 Blue + Green >> 22 (wheel slot 40) 40–40 Blue + Green >> 23 (wheel slot 41) 41–41 Blue + Green >> 24 (wheel slot 42) 42–42 Blue + Green >> 25 (wheel slot 43) 43–43 Blue + Green >> 26 (wheel slot 44) 44–44 Blue + Green >> 27 (wheel slot 45) 45–45 Blue + Green >> 28 (wheel slot 46) 46–46 Blue + Green >> 29 (wheel slot 47) 47–47 Blue + Green >> 30 (wheel slot 48) 48–48 Blue + Green >> 31 (wheel slot 49) 49–49 Blue + Green >> 32 (wheel slot 50) 50–50 Blue + Green >> 33 (wheel slot 51) 51–51 Blue + Green >> 34 (wheel slot 52) 52–52 Blue + Green >> 35 (wheel slot 53) 53–53 Blue + Green >> 36 (wheel slot 54) 54–54 Blue + Green >> 37 (wheel slot 55) 55–55 Blue + Green >> 38 (wheel slot 56) 56–56 LightBlue (wheel slot 57) 57–57 Green + Blue << 00 (wheel slot 58) 58–58 Green + Blue << 01 (wheel slot 59) 59–59 Green + Blue << 02 (wheel slot 60) 60–60 Green + Blue << 03 (wheel slot 61) 61–61 Green + Blue << 04 (wheel slot 62) 62–62 Green + Blue << 05 (wheel slot 63) 63–63 Green + Blue << 06 (wheel slot 64)

mode 5 (continued)

Ch	Function	Default	DMX values
14	Red	255	
15	Red Fine	255	Fine byte of Red
16	Green	255	
17	Green Fine	255	Fine byte of Green
18	Blue	255	
19	Blue Fine	255	Fine byte of Blue
20	White	255	
21	White Fine	255	Fine byte of White
22	Red	255	
23	Red Fine	255	Fine byte of Red
24	Green	255	
25	Green Fine	255	Fine byte of Green
26	Blue	255	
27	Blue Fine	255	Fine byte of Blue
28	White	255	
29	White Fine	255	Fine byte of White
30	Red	255	
31	Red Fine	255	Fine byte of Red
32	Green	255	
33	Green Fine	255	Fine byte of Green
34	Blue	255	
35	Blue Fine	255	Fine byte of Blue
36	White	255	
37	White Fine	255	Fine byte of White