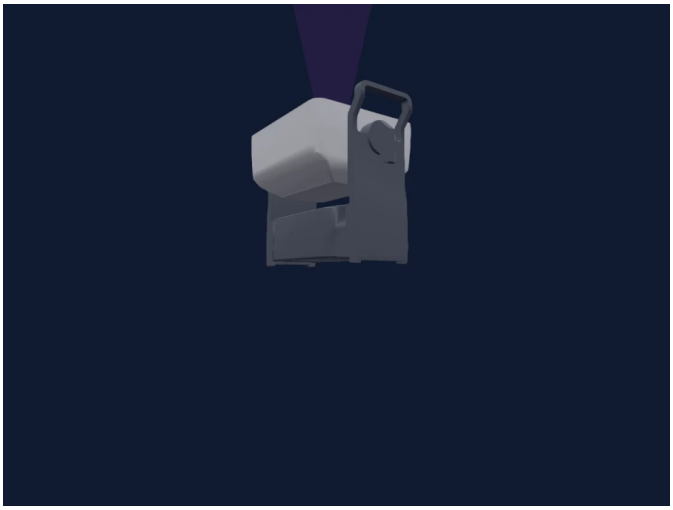
CINDY

TOUGH 400 PANEL



Manufacturer	**CINDY**
Type	**Effect light**
DMX modes	**4**
DMX footprint	**15, 28, 30, 45 channels**
Beam angle	**25°**
Heads / cells	**3**
Size (W × H × D)	**336 × 273 × 141 mm**
GDTF fixture type	**CE5EA6B2-FA0C-4664-8646-DA…**

Controls

Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Effect speed · Strobe · Dimmer · Pixel control

Safety-relevant functions

Fixture reset · Built-in effect programmes

DMX modes

15CH Mode	15 ch
28CH Mode	28 ch
30CH Mode	30 ch
45CH Mode	45 ch

15CH Mode

15 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
2	Shutter / Strobe	22	0–19 Shutter Closed 20–24 Shutter Open 25–25 STROBE · Fast 20 Hz 26–63 STROBE · Fast > Slow 19.5–0.61 Hz 64–64 STROBE · Slow 0.1 Hz 65–69 Shutter Open 70–70 STROBE 100-0% · Fast 20 Hz 71–83 STROBE 100-0% · Fast > Slow 18.6–1.52 Hz 84–84 STROBE 100-0% · Slow 0.1 Hz 85–89 Shutter Open 90–90 STROBE 0-100% · Fast 20 Hz 91–103 STROBE 0-100% · Fast > Slow 18.6–1.52 Hz 104–104 STROBE 0-100% · Slow 0.1 Hz 105–109 Shutter Open 110–110 RANDOM STROBE · Fast 20 Hz 111–123 RANDOM STROBE · Fast > Slow 18.6–1.52 Hz 124–124 RANDOM STROBE · Slow 0.1 Hz 125–129 Shutter Open 130–130 RANDOM STROBE 100-0% · Fast 20 Hz 131–143 RANDOM STROBE 100-0% · Fast > Slow 18.6–1.52 Hz 144–144 RANDOM STROBE 100-0% · Slow 0.1 Hz 145–149 Shutter Open 150–150 RANDOM STROBE 0-100% · Fast 20 Hz 151–163 RANDOM STROBE 0-100% · Fast > Slow 18.6–1.52 Hz 164–164 RANDOM STROBE 0-100% · Slow 0.1 Hz 165–169 Shutter Open 170–170 PULSE STROBE · Fast 20 Hz 171–183 PULSE STROBE · Fast > Slow 18.6–1.52 Hz 184–184 PULSE STROBE · Slow 0.1 Hz 185–189 Shutter Open 190–190 RANDOM PULSE STROBE · Fast 20 Hz 191–203 RANDOM PULSE STROBE · Fast > Slow 18.6–1.52 Hz 204–204 RANDOM PULSE STROBE · Slow 0.1 Hz 205–209 Shutter Open 210–210 STROBE 0-100-0% · Fast 20 Hz 211–223 STROBE 0-100-0% · Fast > Slow 18.6–1.52 Hz 224–224 STROBE 0-100-0% · Slow 0.1 Hz 225–229 Shutter Open 230–230 RANDOM PULSE STROBE 1 · Fast 20 Hz 231–243 RANDOM PULSE STROBE 1 · Fast > Slow 18.6–1.52 … 244–244 RANDOM PULSE STROBE 1 · Slow 0.1 Hz 245–255 Shutter Open
3	C TC	0	

15CH Mode (continued)

Ch	Function	Default	DMX values
4	Color Macro1	0	0–0 Open (wheel slot 1) 1–2 White 2700K - CTC (wheel slot 1) 3–4 White 3200K - CTC (wheel slot 2) 5–6 White 4200K - CTC (wheel slot 3) 7–8 White 5600K - CTC (wheel slot 4) 9–10 White 8000K - CTC (wheel slot 5) 11–11 Blue (wheel slot 6) 12–48 +Green (wheel slot 7) 49–49 Cyan (wheel slot 8) 50–86 -Blue (wheel slot 9) 87–87 Green (wheel slot 10) 88–124 +Red (wheel slot 11) 125–125 Yellow (wheel slot 12) 126–162 -Green (wheel slot 13) 163–163 Red (wheel slot 14) 164–200 +Blue (wheel slot 15) 201–201 Magenta (wheel slot 16) 202–238 -Red (wheel slot 17) 239–239 Blue (wheel slot 7) 240–240 Fast 241–246 Fast > Slow 247–247 Slow 248–248 Fast 249–254 Fast > Slow 255–255 Slow

15CH Mode (continued)

Ch	Function	Default	DMX values
5	Effect	0	0–0 Open 1–1 Pattern 1 - Macro 2–2 Pattern 2 - Macro 3–3 Pattern 3 - Macro 4–4 Pattern 4 - Macro 5–5 Pattern 5 - Macro 6–6 Pattern 6 - Macro 7–7 Pattern 7 - Macro 8–8 Pattern 8 - Macro 9–9 Pattern 9 - Macro 10–10 Pattern 10 - Macro 11–11 Pattern 11 - Macro 12–12 Pattern 12 - Macro 13–13 Pattern 13 - Macro 14–14 Pattern 14 - Macro 15–15 Pattern 15 - Macro 16–16 Pattern 16 - Macro 17–17 Pattern 17 - Macro 18–18 Pattern 18 - Macro 19–19 Pattern 19 - Macro 20–20 Pattern 20 - Macro 21–21 Pattern 21 - Macro 22–22 Pattern 22 - Macro 23–23 Pattern 23 - Macro 24–24 Pattern 24 - Macro 25–25 Pattern 25 - Macro 26–26 Pattern 26 - Macro 27–27 Pattern 27 - Macro 28–28 Pattern 28 - Macro 29–29 Pattern 29 - Macro 30–30 Pattern 30 - Macro 31–31 Pattern 31 - Macro 32–32 Pattern 32 - Macro 33–33 Pattern 33 - Macro 34–34 Pattern 34 - Macro 35–35 Pattern 35 - Macro 36–36 Pattern 36 - Macro 37–37 Pattern 37 - Macro 38–38 Pattern 38 - Macro 39–39 Pattern 39 - Macro 40–40 Pattern 40 - Macro 41–41 Pattern 41 - Macro 42–42 Pattern 42 - Macro 43–43 Pattern 43 - Macro 44–44 Pattern 44 - Macro 45–45 Pattern 45 - Macro 46–46 Pattern 46 - Macro 47–47 Pattern 47 - Macro 48–48 Pattern 48 - Macro 49–49 Pattern 49 - Macro 50–50 Pattern 50 - Macro 51–51 Pattern 51 - Macro 52–52 Pattern 52 - Macro 53–53 Pattern 53 - Macro 54–54 Pattern 54 - Macro 55–55 Pattern 55 - Macro 56–56 Pattern 56 - Macro 57–57 Pattern 57 - Macro 58–58 Pattern 58 - Macro 59–59 Pattern 59 - Macro 60–60 Pattern 60 - Macro 61–61 Pattern 61 - Macro 62–62 Pattern 62 - Macro 63–63 Pattern 63 - Macro

15CH Mode (continued)

Ch	Function	Default	DMX values
6	Effect 2	0	0–15 LED Built-In Open 16–17 LED Built-In 1 - Macro 18–19 LED Built-In 2 - Macro 20–21 LED Built-In 3 - Macro 22–23 LED Built-In 4 - Macro 24–25 LED Built-In 5 - Macro 26–27 LED Built-In 6 - Macro 28–29 LED Built-In 7 - Macro 30–31 LED Built-In 8 - Macro 32–33 LED Built-In 9 - Macro 34–35 LED Built-In 10 - Macro 36–37 LED Built-In 11 - Macro 38–39 LED Built-In 12 - Macro 40–41 LED Built-In 13 - Macro 42–43 LED Built-In 14 - Macro 44–45 LED Built-In 15 - Macro 46–47 LED Built-In 16 - Macro 48–49 LED Built-In 17 - Macro 50–51 LED Built-In 18 - Macro 52–53 LED Built-In 19 - Macro 54–55 LED Built-In 20 - Macro 56–57 LED Built-In 21 - Macro 58–59 LED Built-In 22 - Macro 60–61 LED Built-In 23 - Macro 62–63 LED Built-In 24 - Macro 64–65 LED Built-In 25 - Macro 66–67 LED Built-In 26 - Macro 68–69 LED Built-In 27 - Macro 70–71 LED Built-In 28 - Macro 72–73 LED Built-In 29 - Macro 74–75 LED Built-In 30 - Macro 76–77 LED Built-In 31 - Macro 78–79 LED Built-In 32 - Macro 80–81 LED Built-In 33 - Macro 82–83 LED Built-In 34 - Macro 84–85 LED Built-In 35 - Macro 86–87 LED Built-In 36 - Macro 88–89 LED Built-In 37 - Macro 90–91 LED Built-In 38 - Macro 92–93 LED Built-In 39 - Macro 94–95 LED Built-In 40 - Macro 96–97 LED Built-In 41 - Macro 98–99 LED Built-In 42 - Macro 100–101 LED Built-In 43 - Macro 102–103 LED Built-In 44 - Macro 104–105 LED Built-In 45 - Macro 106–107 LED Built-In 46 - Macro 108–109 LED Built-In 47 - Macro 110–111 LED Built-In 48 - Macro 112–113 LED Built-In 49 - Macro 114–115 LED Built-In 50 - Macro 116–117 LED Built-In 51 - Macro 118–119 LED Built-In 52 - Macro 120–121 LED Built-In 53 - Macro 122–123 LED Built-In 54 - Macro 124–125 LED Built-In 55 - Macro 126–127 LED Built-In 56 - Macro 128–129 LED Built-In 57 - Macro 130–131 LED Built-In 58 - Macro 132–133 LED Built-In 59 - Macro 134–135 LED Built-In 60 - Macro 136–137 LED Built-In 61 - Macro 138–139 LED Built-In 62 - Macro 140–141 LED Built-In 63 - Macro

15CH Mode (continued)

Ch	Function	Default	DMX values
7	Effect Speed 2	128	0–127 Fast > Slow 128–128 Stop 129–255 Slow > Fast
8	Effects2Adjust1	0	0–0 Min 1–254 Min > Max 255–255 Max
9	Color Macro2	0	0–0 Open 1–2 White 2700K - CTC (wheel slot 1) 3–4 White 3200K - CTC (wheel slot 2) 5–6 White 4200K - CTC (wheel slot 3) 7–8 White 5600K - CTC (wheel slot 4) 9–10 White 8000K - CTC (wheel slot 5) 11–11 Blue (wheel slot 6) 12–48 +Green (wheel slot 7) 49–49 Cyan (wheel slot 8) 50–86 -Blue (wheel slot 9) 87–87 Green (wheel slot 10) 88–124 +Red (wheel slot 11) 125–125 Yellow (wheel slot 12) 126–162 -Green (wheel slot 13) 163–163 Red (wheel slot 14) 164–200 +Blue (wheel slot 15) 201–201 Magenta (wheel slot 16) 202–238 -Red (wheel slot 17) 239–239 Blue (wheel slot 7) 240–240 Fast 241–246 Fast > Slow 247–247 Slow 248–248 Fast 249–254 Fast > Slow 255–255 Slow
10	Background Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
11	Control1	0	0–9 No Function 15–19 Reserved 20–24 RGBW Color Mixing Mode 25–29 CMY Color Mixing Mode 30–69 Reserved 70–74 Reset All 75–134 Reserved 135–139 Dimmer Fast 140–144 Dimmer Smooth 145–149 Linear 150–154 Square 155–159 Inverse Square 160–164 S Square 165–169 White Mode 170–174 Full Mode 175–255 Reserved
12	Red	255	0–0 Min 1–254 Min > Max 255–255 Max
13	Green	255	0–0 Min 1–254 Min > Max 255–255 Max
14	Blue	255	0–0 Min 1–254 Min > Max 255–255 Max

15CH Mode (continued)

Ch	Function	Default	DMX values
15	White	255	0–0 Min 1–254 Min > Max 255–255 Max

28CH Mode

28 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
2	Dimmer Fine	0	Fine byte of Dimmer
3	Shutter / Strobe	22	0–19 Shutter Closed 20–24 Shutter Open 25–25 STROBE · Fast 20 Hz 26–63 STROBE · Fast > Slow 19.5–0.61 Hz 64–64 STROBE · Slow 0.1 Hz 65–69 Shutter Open 70–70 STROBE 100-0% · Fast 20 Hz 71–83 STROBE 100-0% · Fast > Slow 18.6–1.52 Hz 84–84 STROBE 100-0% · Slow 0.1 Hz 85–89 Shutter Open 90–90 STROBE 0-100% · Fast 20 Hz 91–103 STROBE 0-100% · Fast > Slow 18.6–1.52 Hz 104–104 STROBE 0-100% · Slow 0.1 Hz 105–109 Shutter Open 110–110 RANDOM STROBE · Fast 20 Hz 111–123 RANDOM STROBE · Fast > Slow 18.6–1.52 Hz 124–124 RANDOM STROBE · Slow 0.1 Hz 125–129 Shutter Open 130–130 RANDOM STROBE 100-0% · Fast 20 Hz 131–143 RANDOM STROBE 100-0% · Fast > Slow 18.6–1.52 Hz 144–144 RANDOM STROBE 100-0% · Slow 0.1 Hz 145–149 Shutter Open 150–150 RANDOM STROBE 0-100% · Fast 20 Hz 151–163 RANDOM STROBE 0-100% · Fast > Slow 18.6–1.52 Hz 164–164 RANDOM STROBE 0-100% · Slow 0.1 Hz 165–169 Shutter Open 170–170 PULSE STROBE · Fast 20 Hz 171–183 PULSE STROBE · Fast > Slow 18.6–1.52 Hz 184–184 PULSE STROBE · Slow 0.1 Hz 185–189 Shutter Open 190–190 RANDOM PULSE STROBE · Fast 20 Hz 191–203 RANDOM PULSE STROBE · Fast > Slow 18.6–1.52 Hz 204–204 RANDOM PULSE STROBE · Slow 0.1 Hz 205–209 Shutter Open 210–210 STROBE 0-100-0% · Fast 20 Hz 211–223 STROBE 0-100-0% · Fast > Slow 18.6–1.52 Hz 224–224 STROBE 0-100-0% · Slow 0.1 Hz 225–229 Shutter Open 230–230 RANDOM PULSE STROBE 1 · Fast 20 Hz 231–243 RANDOM PULSE STROBE 1 · Fast > Slow 18.6–1.52 … 244–244 RANDOM PULSE STROBE 1 · Slow 0.1 Hz 245–255 Shutter Open
4	C TC	0	

28CH Mode (continued)

Ch	Function	Default	DMX values
5	Color Macro1	0	0–0 Open (wheel slot 1) 1–2 White 2700K - CTC (wheel slot 1) 3–4 White 3200K - CTC (wheel slot 2) 5–6 White 4200K - CTC (wheel slot 3) 7–8 White 5600K - CTC (wheel slot 4) 9–10 White 8000K - CTC (wheel slot 5) 11–11 Blue (wheel slot 6) 12–48 +Green (wheel slot 7) 49–49 Cyan (wheel slot 8) 50–86 -Blue (wheel slot 9) 87–87 Green (wheel slot 10) 88–124 +Red (wheel slot 11) 125–125 Yellow (wheel slot 12) 126–162 -Green (wheel slot 13) 163–163 Red (wheel slot 14) 164–200 +Blue (wheel slot 15) 201–201 Magenta (wheel slot 16) 202–238 -Red (wheel slot 17) 239–239 Blue (wheel slot 7) 240–240 Fast 241–246 Fast > Slow 247–247 Slow 248–248 Fast 249–254 Fast > Slow 255–255 Slow

28CH Mode (continued)

Ch	Function	Default	DMX values
6	Effect	0	0–0 Open 1–1 Pattern 1 - Macro 2–2 Pattern 2 - Macro 3–3 Pattern 3 - Macro 4–4 Pattern 4 - Macro 5–5 Pattern 5 - Macro 6–6 Pattern 6 - Macro 7–7 Pattern 7 - Macro 8–8 Pattern 8 - Macro 9–9 Pattern 9 - Macro 10–10 Pattern 10 - Macro 11–11 Pattern 11 - Macro 12–12 Pattern 12 - Macro 13–13 Pattern 13 - Macro 14–14 Pattern 14 - Macro 15–15 Pattern 15 - Macro 16–16 Pattern 16 - Macro 17–17 Pattern 17 - Macro 18–18 Pattern 18 - Macro 19–19 Pattern 19 - Macro 20–20 Pattern 20 - Macro 21–21 Pattern 21 - Macro 22–22 Pattern 22 - Macro 23–23 Pattern 23 - Macro 24–24 Pattern 24 - Macro 25–25 Pattern 25 - Macro 26–26 Pattern 26 - Macro 27–27 Pattern 27 - Macro 28–28 Pattern 28 - Macro 29–29 Pattern 29 - Macro 30–30 Pattern 30 - Macro 31–31 Pattern 31 - Macro 32–32 Pattern 32 - Macro 33–33 Pattern 33 - Macro 34–34 Pattern 34 - Macro 35–35 Pattern 35 - Macro 36–36 Pattern 36 - Macro 37–37 Pattern 37 - Macro 38–38 Pattern 38 - Macro 39–39 Pattern 39 - Macro 40–40 Pattern 40 - Macro 41–41 Pattern 41 - Macro 42–42 Pattern 42 - Macro 43–43 Pattern 43 - Macro 44–44 Pattern 44 - Macro 45–45 Pattern 45 - Macro 46–46 Pattern 46 - Macro 47–47 Pattern 47 - Macro 48–48 Pattern 48 - Macro 49–49 Pattern 49 - Macro 50–50 Pattern 50 - Macro 51–51 Pattern 51 - Macro 52–52 Pattern 52 - Macro 53–53 Pattern 53 - Macro 54–54 Pattern 54 - Macro 55–55 Pattern 55 - Macro 56–56 Pattern 56 - Macro 57–57 Pattern 57 - Macro 58–58 Pattern 58 - Macro 59–59 Pattern 59 - Macro 60–60 Pattern 60 - Macro 61–61 Pattern 61 - Macro 62–62 Pattern 62 - Macro 63–63 Pattern 63 - Macro

28CH Mode (continued)

Ch	Function	Default	DMX values
7	Effect 2	0	0–15 LED Built-In Open 16–17 LED Built-In 1 - Macro 18–19 LED Built-In 2 - Macro 20–21 LED Built-In 3 - Macro 22–23 LED Built-In 4 - Macro 24–25 LED Built-In 5 - Macro 26–27 LED Built-In 6 - Macro 28–29 LED Built-In 7 - Macro 30–31 LED Built-In 8 - Macro 32–33 LED Built-In 9 - Macro 34–35 LED Built-In 10 - Macro 36–37 LED Built-In 11 - Macro 38–39 LED Built-In 12 - Macro 40–41 LED Built-In 13 - Macro 42–43 LED Built-In 14 - Macro 44–45 LED Built-In 15 - Macro 46–47 LED Built-In 16 - Macro 48–49 LED Built-In 17 - Macro 50–51 LED Built-In 18 - Macro 52–53 LED Built-In 19 - Macro 54–55 LED Built-In 20 - Macro 56–57 LED Built-In 21 - Macro 58–59 LED Built-In 22 - Macro 60–61 LED Built-In 23 - Macro 62–63 LED Built-In 24 - Macro 64–65 LED Built-In 25 - Macro 66–67 LED Built-In 26 - Macro 68–69 LED Built-In 27 - Macro 70–71 LED Built-In 28 - Macro 72–73 LED Built-In 29 - Macro 74–75 LED Built-In 30 - Macro 76–77 LED Built-In 31 - Macro 78–79 LED Built-In 32 - Macro 80–81 LED Built-In 33 - Macro 82–83 LED Built-In 34 - Macro 84–85 LED Built-In 35 - Macro 86–87 LED Built-In 36 - Macro 88–89 LED Built-In 37 - Macro 90–91 LED Built-In 38 - Macro 92–93 LED Built-In 39 - Macro 94–95 LED Built-In 40 - Macro 96–97 LED Built-In 41 - Macro 98–99 LED Built-In 42 - Macro 100–101 LED Built-In 43 - Macro 102–103 LED Built-In 44 - Macro 104–105 LED Built-In 45 - Macro 106–107 LED Built-In 46 - Macro 108–109 LED Built-In 47 - Macro 110–111 LED Built-In 48 - Macro 112–113 LED Built-In 49 - Macro 114–115 LED Built-In 50 - Macro 116–117 LED Built-In 51 - Macro 118–119 LED Built-In 52 - Macro 120–121 LED Built-In 53 - Macro 122–123 LED Built-In 54 - Macro 124–125 LED Built-In 55 - Macro 126–127 LED Built-In 56 - Macro 128–129 LED Built-In 57 - Macro 130–131 LED Built-In 58 - Macro 132–133 LED Built-In 59 - Macro 134–135 LED Built-In 60 - Macro 136–137 LED Built-In 61 - Macro 138–139 LED Built-In 62 - Macro 140–141 LED Built-In 63 - Macro

28CH Mode (continued)

Ch	Function	Default	DMX values
8	Effect Speed 2	128	0–127 Fast > Slow 128–128 Stop 129–255 Slow > Fast
9	Effects2Adjust1	0	0–0 Min 1–254 Min > Max 255–255 Max
10	Color Macro2	0	0–0 Open 1–2 White 2700K - CTC (wheel slot 1) 3–4 White 3200K - CTC (wheel slot 2) 5–6 White 4200K - CTC (wheel slot 3) 7–8 White 5600K - CTC (wheel slot 4) 9–10 White 8000K - CTC (wheel slot 5) 11–11 Blue (wheel slot 6) 12–48 +Green (wheel slot 7) 49–49 Cyan (wheel slot 8) 50–86 -Blue (wheel slot 9) 87–87 Green (wheel slot 10) 88–124 +Red (wheel slot 11) 125–125 Yellow (wheel slot 12) 126–162 -Green (wheel slot 13) 163–163 Red (wheel slot 14) 164–200 +Blue (wheel slot 15) 201–201 Magenta (wheel slot 16) 202–238 -Red (wheel slot 17) 239–239 Blue (wheel slot 7) 240–240 Fast 241–246 Fast > Slow 247–247 Slow 248–248 Fast 249–254 Fast > Slow 255–255 Slow
11	Background Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
12	R Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max
13	G Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max
14	B Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max
15	W Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max

28CH Mode (continued)

Ch	Function	Default	DMX values
16	Control1	0	0–9 No Function 15–19 Reserved 20–24 RGBW Color Mixing Mode 25–29 CMY Color Mixing Mode 30–69 Reserved 70–74 Reset All 75–134 Reserved 135–139 Dimmer Fast 140–144 Dimmer Smooth 145–149 Linear 150–154 Square 155–159 Inverse Square 160–164 S Square 165–169 White Mode 170–174 Full Mode 175–255 Reserved
17	Red	255	
18	Green	255	
19	Blue	255	
20	White	255	
21	Red	255	
22	Green	255	
23	Blue	255	
24	White	255	
25	Red	255	
26	Green	255	
27	Blue	255	
28	White	255	

30CH Mode

30 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
2	Dimmer Fine	0	Fine byte of Dimmer

30CH Mode (continued)

Ch	Function	Default	DMX values
3	Shutter / Strobe	22	0–19 Shutter Closed 20–24 Shutter Open 25–25 STROBE · Fast 20 Hz 26–63 STROBE · Fast > Slow 19.5–0.61 Hz 64–64 STROBE · Slow 0.1 Hz 65–69 Shutter Open 70–70 STROBE 100-0% · Fast 20 Hz 71–83 STROBE 100-0% · Fast > Slow 18.6–1.52 Hz 84–84 STROBE 100-0% · Slow 0.1 Hz 85–89 Shutter Open 90–90 STROBE 0-100% · Fast 20 Hz 91–103 STROBE 0-100% · Fast > Slow 18.6–1.52 Hz 104–104 STROBE 0-100% · Slow 0.1 Hz 105–109 Shutter Open 110–110 RANDOM STROBE · Fast 20 Hz 111–123 RANDOM STROBE · Fast > Slow 18.6–1.52 Hz 124–124 RANDOM STROBE · Slow 0.1 Hz 125–129 Shutter Open 130–130 RANDOM STROBE 100-0% · Fast 20 Hz 131–143 RANDOM STROBE 100-0% · Fast > Slow 18.6–1.52 Hz 144–144 RANDOM STROBE 100-0% · Slow 0.1 Hz 145–149 Shutter Open 150–150 RANDOM STROBE 0-100% · Fast 20 Hz 151–163 RANDOM STROBE 0-100% · Fast > Slow 18.6–1.52 Hz 164–164 RANDOM STROBE 0-100% · Slow 0.1 Hz 165–169 Shutter Open 170–170 PULSE STROBE · Fast 20 Hz 171–183 PULSE STROBE · Fast > Slow 18.6–1.52 Hz 184–184 PULSE STROBE · Slow 0.1 Hz 185–189 Shutter Open 190–190 RANDOM PULSE STROBE · Fast 20 Hz 191–203 RANDOM PULSE STROBE · Fast > Slow 18.6–1.52 Hz 204–204 RANDOM PULSE STROBE · Slow 0.1 Hz 205–209 Shutter Open 210–210 STROBE 0-100-0% · Fast 20 Hz 211–223 STROBE 0-100-0% · Fast > Slow 18.6–1.52 Hz 224–224 STROBE 0-100-0% · Slow 0.1 Hz 225–229 Shutter Open 230–230 RANDOM PULSE STROBE 1 · Fast 20 Hz 231–243 RANDOM PULSE STROBE 1 · Fast > Slow 18.6–1.52 … 244–244 RANDOM PULSE STROBE 1 · Slow 0.1 Hz 245–255 Shutter Open
4	C TC	0	

30CH Mode (continued)

Ch	Function	Default	DMX values
5	Color Macro1	0	0–0 Open (wheel slot 1) 1–2 White 2700K - CTC (wheel slot 1) 3–4 White 3200K - CTC (wheel slot 2) 5–6 White 4200K - CTC (wheel slot 3) 7–8 White 5600K - CTC (wheel slot 4) 9–10 White 8000K - CTC (wheel slot 5) 11–11 Blue (wheel slot 6) 12–48 +Green (wheel slot 7) 49–49 Cyan (wheel slot 8) 50–86 -Blue (wheel slot 9) 87–87 Green (wheel slot 10) 88–124 +Red (wheel slot 11) 125–125 Yellow (wheel slot 12) 126–162 -Green (wheel slot 13) 163–163 Red (wheel slot 14) 164–200 +Blue (wheel slot 15) 201–201 Magenta (wheel slot 16) 202–238 -Red (wheel slot 17) 239–239 Blue (wheel slot 7) 240–240 Fast 241–246 Fast > Slow 247–247 Slow 248–248 Fast 249–254 Fast > Slow 255–255 Slow

30CH Mode (continued)

Ch	Function	Default	DMX values
6	Effect	0	0–0 Open 1–1 Pattern 1 - Macro 2–2 Pattern 2 - Macro 3–3 Pattern 3 - Macro 4–4 Pattern 4 - Macro 5–5 Pattern 5 - Macro 6–6 Pattern 6 - Macro 7–7 Pattern 7 - Macro 8–8 Pattern 8 - Macro 9–9 Pattern 9 - Macro 10–10 Pattern 10 - Macro 11–11 Pattern 11 - Macro 12–12 Pattern 12 - Macro 13–13 Pattern 13 - Macro 14–14 Pattern 14 - Macro 15–15 Pattern 15 - Macro 16–16 Pattern 16 - Macro 17–17 Pattern 17 - Macro 18–18 Pattern 18 - Macro 19–19 Pattern 19 - Macro 20–20 Pattern 20 - Macro 21–21 Pattern 21 - Macro 22–22 Pattern 22 - Macro 23–23 Pattern 23 - Macro 24–24 Pattern 24 - Macro 25–25 Pattern 25 - Macro 26–26 Pattern 26 - Macro 27–27 Pattern 27 - Macro 28–28 Pattern 28 - Macro 29–29 Pattern 29 - Macro 30–30 Pattern 30 - Macro 31–31 Pattern 31 - Macro 32–32 Pattern 32 - Macro 33–33 Pattern 33 - Macro 34–34 Pattern 34 - Macro 35–35 Pattern 35 - Macro 36–36 Pattern 36 - Macro 37–37 Pattern 37 - Macro 38–38 Pattern 38 - Macro 39–39 Pattern 39 - Macro 40–40 Pattern 40 - Macro 41–41 Pattern 41 - Macro 42–42 Pattern 42 - Macro 43–43 Pattern 43 - Macro 44–44 Pattern 44 - Macro 45–45 Pattern 45 - Macro 46–46 Pattern 46 - Macro 47–47 Pattern 47 - Macro 48–48 Pattern 48 - Macro 49–49 Pattern 49 - Macro 50–50 Pattern 50 - Macro 51–51 Pattern 51 - Macro 52–52 Pattern 52 - Macro 53–53 Pattern 53 - Macro 54–54 Pattern 54 - Macro 55–55 Pattern 55 - Macro 56–56 Pattern 56 - Macro 57–57 Pattern 57 - Macro 58–58 Pattern 58 - Macro 59–59 Pattern 59 - Macro 60–60 Pattern 60 - Macro 61–61 Pattern 61 - Macro 62–62 Pattern 62 - Macro 63–63 Pattern 63 - Macro

30CH Mode (continued)

Ch	Function	Default	DMX values
7	Effect 2	0	0–15 LED Built-In Open 16–17 LED Built-In 1 - Macro 18–19 LED Built-In 2 - Macro 20–21 LED Built-In 3 - Macro 22–23 LED Built-In 4 - Macro 24–25 LED Built-In 5 - Macro 26–27 LED Built-In 6 - Macro 28–29 LED Built-In 7 - Macro 30–31 LED Built-In 8 - Macro 32–33 LED Built-In 9 - Macro 34–35 LED Built-In 10 - Macro 36–37 LED Built-In 11 - Macro 38–39 LED Built-In 12 - Macro 40–41 LED Built-In 13 - Macro 42–43 LED Built-In 14 - Macro 44–45 LED Built-In 15 - Macro 46–47 LED Built-In 16 - Macro 48–49 LED Built-In 17 - Macro 50–51 LED Built-In 18 - Macro 52–53 LED Built-In 19 - Macro 54–55 LED Built-In 20 - Macro 56–57 LED Built-In 21 - Macro 58–59 LED Built-In 22 - Macro 60–61 LED Built-In 23 - Macro 62–63 LED Built-In 24 - Macro 64–65 LED Built-In 25 - Macro 66–67 LED Built-In 26 - Macro 68–69 LED Built-In 27 - Macro 70–71 LED Built-In 28 - Macro 72–73 LED Built-In 29 - Macro 74–75 LED Built-In 30 - Macro 76–77 LED Built-In 31 - Macro 78–79 LED Built-In 32 - Macro 80–81 LED Built-In 33 - Macro 82–83 LED Built-In 34 - Macro 84–85 LED Built-In 35 - Macro 86–87 LED Built-In 36 - Macro 88–89 LED Built-In 37 - Macro 90–91 LED Built-In 38 - Macro 92–93 LED Built-In 39 - Macro 94–95 LED Built-In 40 - Macro 96–97 LED Built-In 41 - Macro 98–99 LED Built-In 42 - Macro 100–101 LED Built-In 43 - Macro 102–103 LED Built-In 44 - Macro 104–105 LED Built-In 45 - Macro 106–107 LED Built-In 46 - Macro 108–109 LED Built-In 47 - Macro 110–111 LED Built-In 48 - Macro 112–113 LED Built-In 49 - Macro 114–115 LED Built-In 50 - Macro 116–117 LED Built-In 51 - Macro 118–119 LED Built-In 52 - Macro 120–121 LED Built-In 53 - Macro 122–123 LED Built-In 54 - Macro 124–125 LED Built-In 55 - Macro 126–127 LED Built-In 56 - Macro 128–129 LED Built-In 57 - Macro 130–131 LED Built-In 58 - Macro 132–133 LED Built-In 59 - Macro 134–135 LED Built-In 60 - Macro 136–137 LED Built-In 61 - Macro 138–139 LED Built-In 62 - Macro 140–141 LED Built-In 63 - Macro

30CH Mode (continued)

Ch	Function	Default	DMX values
8	Effect Speed 2	128	0–127 Fast > Slow 128–128 Stop 129–255 Slow > Fast
9	Effects2Adjust1	0	0–0 Min 1–254 Min > Max 255–255 Max
10	Color Macro2	0	0–0 Open 1–2 White 2700K - CTC (wheel slot 1) 3–4 White 3200K - CTC (wheel slot 2) 5–6 White 4200K - CTC (wheel slot 3) 7–8 White 5600K - CTC (wheel slot 4) 9–10 White 8000K - CTC (wheel slot 5) 11–11 Blue (wheel slot 6) 12–48 +Green (wheel slot 7) 49–49 Cyan (wheel slot 8) 50–86 -Blue (wheel slot 9) 87–87 Green (wheel slot 10) 88–124 +Red (wheel slot 11) 125–125 Yellow (wheel slot 12) 126–162 -Green (wheel slot 13) 163–163 Red (wheel slot 14) 164–200 +Blue (wheel slot 15) 201–201 Magenta (wheel slot 16) 202–238 -Red (wheel slot 17) 239–239 Blue (wheel slot 7) 240–240 Fast 241–246 Fast > Slow 247–247 Slow 248–248 Fast 249–254 Fast > Slow 255–255 Slow
11	Background Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
12	R Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max
13	G Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max
14	B Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max
15	W Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max

30CH Mode (continued)

Ch	Function	Default	DMX values
16	Control1	0	0–9 No Function 15–19 Reserved 20–24 RGBW Color Mixing Mode 25–29 CMY Color Mixing Mode 30–69 Reserved 70–74 Reset All 75–134 Reserved 135–139 Dimmer Fast 140–144 Dimmer Smooth 145–149 Linear 150–154 Square 155–159 Inverse Square 160–164 S Square 165–169 White Mode 170–174 Full Mode 175–255 Reserved
17	Red	255	
18	Green	255	
19	Blue	255	
20	White	255	
21	Dimmer	0	
22	Red	255	
23	Green	255	
24	Blue	255	
25	White	255	
26	Dimmer	0	
27	Red	255	
28	Green	255	
29	Blue	255	
30	White	255	

45CH Mode

45 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
2	Dimmer Fine	0	Fine byte of Dimmer

45CH Mode (continued)

Ch	Function	Default	DMX values
3	Shutter / Strobe	22	0–19 Shutter Closed 20–24 Shutter Open 25–25 STROBE · Fast 20 Hz 26–63 STROBE · Fast > Slow 19.5–0.61 Hz 64–64 STROBE · Slow 0.1 Hz 65–69 Shutter Open 70–70 STROBE 100-0% · Fast 20 Hz 71–83 STROBE 100-0% · Fast > Slow 18.6–1.52 Hz 84–84 STROBE 100-0% · Slow 0.1 Hz 85–89 Shutter Open 90–90 STROBE 0-100% · Fast 20 Hz 91–103 STROBE 0-100% · Fast > Slow 18.6–1.52 Hz 104–104 STROBE 0-100% · Slow 0.1 Hz 105–109 Shutter Open 110–110 RANDOM STROBE · Fast 20 Hz 111–123 RANDOM STROBE · Fast > Slow 18.6–1.52 Hz 124–124 RANDOM STROBE · Slow 0.1 Hz 125–129 Shutter Open 130–130 RANDOM STROBE 100-0% · Fast 20 Hz 131–143 RANDOM STROBE 100-0% · Fast > Slow 18.6–1.52 Hz 144–144 RANDOM STROBE 100-0% · Slow 0.1 Hz 145–149 Shutter Open 150–150 RANDOM STROBE 0-100% · Fast 20 Hz 151–163 RANDOM STROBE 0-100% · Fast > Slow 18.6–1.52 Hz 164–164 RANDOM STROBE 0-100% · Slow 0.1 Hz 165–169 Shutter Open 170–170 PULSE STROBE · Fast 20 Hz 171–183 PULSE STROBE · Fast > Slow 18.6–1.52 Hz 184–184 PULSE STROBE · Slow 0.1 Hz 185–189 Shutter Open 190–190 RANDOM PULSE STROBE · Fast 20 Hz 191–203 RANDOM PULSE STROBE · Fast > Slow 18.6–1.52 Hz 204–204 RANDOM PULSE STROBE · Slow 0.1 Hz 205–209 Shutter Open 210–210 STROBE 0-100-0% · Fast 20 Hz 211–223 STROBE 0-100-0% · Fast > Slow 18.6–1.52 Hz 224–224 STROBE 0-100-0% · Slow 0.1 Hz 225–229 Shutter Open 230–230 RANDOM PULSE STROBE 1 · Fast 20 Hz 231–243 RANDOM PULSE STROBE 1 · Fast > Slow 18.6–1.52 … 244–244 RANDOM PULSE STROBE 1 · Slow 0.1 Hz 245–255 Shutter Open
4	C TC	0	

45CH Mode (continued)

Ch	Function	Default	DMX values
5	Color Macro1	0	0–0 Open (wheel slot 1) 1–2 White 2700K - CTC (wheel slot 1) 3–4 White 3200K - CTC (wheel slot 2) 5–6 White 4200K - CTC (wheel slot 3) 7–8 White 5600K - CTC (wheel slot 4) 9–10 White 8000K - CTC (wheel slot 5) 11–11 Blue (wheel slot 6) 12–48 +Green (wheel slot 7) 49–49 Cyan (wheel slot 8) 50–86 -Blue (wheel slot 9) 87–87 Green (wheel slot 10) 88–124 +Red (wheel slot 11) 125–125 Yellow (wheel slot 12) 126–162 -Green (wheel slot 13) 163–163 Red (wheel slot 14) 164–200 +Blue (wheel slot 15) 201–201 Magenta (wheel slot 16) 202–238 -Red (wheel slot 17) 239–239 Blue (wheel slot 7) 240–240 Fast 241–246 Fast > Slow 247–247 Slow 248–248 Fast 249–254 Fast > Slow 255–255 Slow

45CH Mode (continued)

Ch	Function	Default	DMX values
6	Effect	0	0–0 Open 1–1 Pattern 1 - Macro 2–2 Pattern 2 - Macro 3–3 Pattern 3 - Macro 4–4 Pattern 4 - Macro 5–5 Pattern 5 - Macro 6–6 Pattern 6 - Macro 7–7 Pattern 7 - Macro 8–8 Pattern 8 - Macro 9–9 Pattern 9 - Macro 10–10 Pattern 10 - Macro 11–11 Pattern 11 - Macro 12–12 Pattern 12 - Macro 13–13 Pattern 13 - Macro 14–14 Pattern 14 - Macro 15–15 Pattern 15 - Macro 16–16 Pattern 16 - Macro 17–17 Pattern 17 - Macro 18–18 Pattern 18 - Macro 19–19 Pattern 19 - Macro 20–20 Pattern 20 - Macro 21–21 Pattern 21 - Macro 22–22 Pattern 22 - Macro 23–23 Pattern 23 - Macro 24–24 Pattern 24 - Macro 25–25 Pattern 25 - Macro 26–26 Pattern 26 - Macro 27–27 Pattern 27 - Macro 28–28 Pattern 28 - Macro 29–29 Pattern 29 - Macro 30–30 Pattern 30 - Macro 31–31 Pattern 31 - Macro 32–32 Pattern 32 - Macro 33–33 Pattern 33 - Macro 34–34 Pattern 34 - Macro 35–35 Pattern 35 - Macro 36–36 Pattern 36 - Macro 37–37 Pattern 37 - Macro 38–38 Pattern 38 - Macro 39–39 Pattern 39 - Macro 40–40 Pattern 40 - Macro 41–41 Pattern 41 - Macro 42–42 Pattern 42 - Macro 43–43 Pattern 43 - Macro 44–44 Pattern 44 - Macro 45–45 Pattern 45 - Macro 46–46 Pattern 46 - Macro 47–47 Pattern 47 - Macro 48–48 Pattern 48 - Macro 49–49 Pattern 49 - Macro 50–50 Pattern 50 - Macro 51–51 Pattern 51 - Macro 52–52 Pattern 52 - Macro 53–53 Pattern 53 - Macro 54–54 Pattern 54 - Macro 55–55 Pattern 55 - Macro 56–56 Pattern 56 - Macro 57–57 Pattern 57 - Macro 58–58 Pattern 58 - Macro 59–59 Pattern 59 - Macro 60–60 Pattern 60 - Macro 61–61 Pattern 61 - Macro 62–62 Pattern 62 - Macro 63–63 Pattern 63 - Macro

45CH Mode (continued)

Ch	Function	Default	DMX values
7	Effect 2	0	0–15 LED Built-In Open 16–17 LED Built-In 1 - Macro 18–19 LED Built-In 2 - Macro 20–21 LED Built-In 3 - Macro 22–23 LED Built-In 4 - Macro 24–25 LED Built-In 5 - Macro 26–27 LED Built-In 6 - Macro 28–29 LED Built-In 7 - Macro 30–31 LED Built-In 8 - Macro 32–33 LED Built-In 9 - Macro 34–35 LED Built-In 10 - Macro 36–37 LED Built-In 11 - Macro 38–39 LED Built-In 12 - Macro 40–41 LED Built-In 13 - Macro 42–43 LED Built-In 14 - Macro 44–45 LED Built-In 15 - Macro 46–47 LED Built-In 16 - Macro 48–49 LED Built-In 17 - Macro 50–51 LED Built-In 18 - Macro 52–53 LED Built-In 19 - Macro 54–55 LED Built-In 20 - Macro 56–57 LED Built-In 21 - Macro 58–59 LED Built-In 22 - Macro 60–61 LED Built-In 23 - Macro 62–63 LED Built-In 24 - Macro 64–65 LED Built-In 25 - Macro 66–67 LED Built-In 26 - Macro 68–69 LED Built-In 27 - Macro 70–71 LED Built-In 28 - Macro 72–73 LED Built-In 29 - Macro 74–75 LED Built-In 30 - Macro 76–77 LED Built-In 31 - Macro 78–79 LED Built-In 32 - Macro 80–81 LED Built-In 33 - Macro 82–83 LED Built-In 34 - Macro 84–85 LED Built-In 35 - Macro 86–87 LED Built-In 36 - Macro 88–89 LED Built-In 37 - Macro 90–91 LED Built-In 38 - Macro 92–93 LED Built-In 39 - Macro 94–95 LED Built-In 40 - Macro 96–97 LED Built-In 41 - Macro 98–99 LED Built-In 42 - Macro 100–101 LED Built-In 43 - Macro 102–103 LED Built-In 44 - Macro 104–105 LED Built-In 45 - Macro 106–107 LED Built-In 46 - Macro 108–109 LED Built-In 47 - Macro 110–111 LED Built-In 48 - Macro 112–113 LED Built-In 49 - Macro 114–115 LED Built-In 50 - Macro 116–117 LED Built-In 51 - Macro 118–119 LED Built-In 52 - Macro 120–121 LED Built-In 53 - Macro 122–123 LED Built-In 54 - Macro 124–125 LED Built-In 55 - Macro 126–127 LED Built-In 56 - Macro 128–129 LED Built-In 57 - Macro 130–131 LED Built-In 58 - Macro 132–133 LED Built-In 59 - Macro 134–135 LED Built-In 60 - Macro 136–137 LED Built-In 61 - Macro 138–139 LED Built-In 62 - Macro 140–141 LED Built-In 63 - Macro

45CH Mode (continued)

Ch	Function	Default	DMX values
8	Effect Speed 2	128	0–127 Fast > Slow 128–128 Stop 129–255 Slow > Fast
9	Effects2Adjust1	0	0–0 Min 1–254 Min > Max 255–255 Max
10	Color Macro2	0	0–0 Open 1–2 White 2700K - CTC (wheel slot 1) 3–4 White 3200K - CTC (wheel slot 2) 5–6 White 4200K - CTC (wheel slot 3) 7–8 White 5600K - CTC (wheel slot 4) 9–10 White 8000K - CTC (wheel slot 5) 11–11 Blue (wheel slot 6) 12–48 +Green (wheel slot 7) 49–49 Cyan (wheel slot 8) 50–86 -Blue (wheel slot 9) 87–87 Green (wheel slot 10) 88–124 +Red (wheel slot 11) 125–125 Yellow (wheel slot 12) 126–162 -Green (wheel slot 13) 163–163 Red (wheel slot 14) 164–200 +Blue (wheel slot 15) 201–201 Magenta (wheel slot 16) 202–238 -Red (wheel slot 17) 239–239 Blue (wheel slot 7) 240–240 Fast 241–246 Fast > Slow 247–247 Slow 248–248 Fast 249–254 Fast > Slow 255–255 Slow
11	Background Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
12	Background Dimmer Fine	0	Fine byte of Background Dimmer
13	R Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max
14	R Overwrite Fine	0	Fine byte of R Overwrite
15	G Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max
16	G Overwrite Fine	0	Fine byte of G Overwrite
17	B Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max
18	B Overwrite Fine	0	Fine byte of B Overwrite
19	W Overwrite	0	0–0 Min 1–254 Min > Max 255–255 Max
20	W Overwrite Fine	0	Fine byte of W Overwrite

45CH Mode (continued)

Ch	Function	Default	DMX values
21	Control1	0	0–9 No Function 15–19 Reserved 20–24 RGBW Color Mixing Mode 25–29 CMY Color Mixing Mode 30–69 Reserved 70–74 Reset All 75–134 Reserved 135–139 Dimmer Fast 140–144 Dimmer Smooth 145–149 Linear 150–154 Square 155–159 Inverse Square 160–164 S Square 165–169 White Mode 170–174 Full Mode 175–255 Reserved
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
38	Red	255	
39	Red Fine	255	Fine byte of Red
40	Green	255	
41	Green Fine	255	Fine byte of Green
42	Blue	255	
43	Blue Fine	255	Fine byte of Blue
44	White	255	
45	White Fine	255	Fine byte of White