CINDY

TOUGH 500 HYBRID



Manufacturer	**CINDY**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**20, 25 channels**
Beam angle	**1.3-31.9°**
Pan range	**540°**
Tilt range	**260°**
Size (W × H × D)	**228 × 348 × 208 mm**
GDTF fixture type	**580BEE59-A766-4025-A2E5-C8…**

Controls

Focus · Frost · Prism · Prism rotation · Zoom · Colour wheel · Strobe · Dimmer · Movement speed · Gobos · Gobo rotation

Safety-relevant functions

Lamp on and off · Fixture reset · Strobe

DMX modes

20CH Mode	20 ch
25Ch Mode	25 ch

20CH Mode

20 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Position MSpeed	0	0–0 Min 1–254 Min > Max 255–255 Max
6	Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
7	Shutter / Strobe	12	0–7 Closed - Shutter Closed 8–15 Open - Shutter Open 16–131 Strobe S > F - Strobe 132–167 Fast Off Slow On (S > F) - Strobe Pulse Open 168–203 Slow Off Fast On (S > F) - Strobe Pulse Closed 204–239 Pulse Random S > F - Strobe Pulse Random 240–250 Strobe Random S > F - Strobe Random 251–255 Open - Shutter Open
8	Color Wheel	0	0–1 Open - Color (wheel slot 1) 2–5 Red - Color (wheel slot 2) 6–9 Orange - Color (wheel slot 3) 10–13 Cyan - Color (wheel slot 4) 14–17 Light Green - Color (wheel slot 5) 18–21 Light Yellow - Color (wheel slot 6) 22–25 Lavender - Color (wheel slot 7) 26–29 Pink - Color (wheel slot 8) 30–33 Yellow - Color (wheel slot 9) 34–37 Magenta - Color (wheel slot 10) 38–41 Light Blue - Color (wheel slot 11) 42–45 Amber - Color (wheel slot 12) 46–49 CTB 3200K - CTB (wheel slot 13) 50–59 UV - Color (wheel slot 14) 60–187 Indexing - Indexing 188–219 F > S - Rotate CW 220–223 Stop - Stop Loop 224–255 S > F - Rotate CCW
9	No Feature	0	

20CH Mode (continued)

Ch	Function	Default	DMX values
10	Gobo	0	0–0 Open (wheel slot 1) 1–5 Open Spot Mode (wheel slot 2) 6–11 Gobo 1 (wheel slot 3) 12–17 Gobo 2 (wheel slot 4) 18–23 Gobo 3 (wheel slot 5) 24–29 Gobo 4 (wheel slot 6) 30–35 Gobo 5 (wheel slot 7) 36–41 Gobo 6 (wheel slot 8) 42–47 Gobo 7 (wheel slot 9) 48–53 Gobo 8 (wheel slot 10) 54–69 Gobo 9 (wheel slot 11) 70–75 Gobo 8 (wheel slot 10) 76–81 Gobo 7 (wheel slot 9) 82–87 Gobo 6 (wheel slot 8) 88–93 Gobo 5 (wheel slot 7) 94–99 Gobo 4 (wheel slot 6) 100–105 Gobo 3 (wheel slot 5) 106–111 Gobo 2 (wheel slot 4) 112–117 Gobo 1 (wheel slot 3) 118–127 Open (wheel slot 1) 128–128 CW Gobo Scroll - Fast 129–190 CW Gobo Scroll - Fast > Slow 191–191 CW Gobo Scroll - Slow 192–192 CCW Gobo Scroll - Slow 193–254 CCW Gobo Scroll - Slow > Fast 255–255 CCW Gobo Scroll - Fast
11	Gobo Rotation	0	0–63 Indexing - Indexing 64–146 F > S - Rotate CW 147–150 Stop - Stop Loop 151–231 S > F - Rotate CCW 232–232 Bounce Short 233–254 Bounce Short > Long 255–255 Bounce Long
12	Prism	0	0–4 Open - Custom (wheel slot 1) 5–255 Prism 1 - Prism (wheel slot 2)
13	Prism Rotation	0	0–127 Indexing - Indexing 128–189 F > S - Rotate CW 190–193 Stop - Stop Loop 194–255 S > F - Rotate CCW
14	Prism	0	0–4 Open - Custom (wheel slot 1) 5–255 Prism - Prism (wheel slot 2)
15	Prism Rotation	0	0–127 Indexing - Indexing 128–189 F > S - Rotate CW 190–193 Stop - Stop Loop 194–255 S > F - Rotate CCW
16	Frost1	0	0–0 Min 1–254 Min > Max 255–255 Max
17	Frost2	0	0–3 Min 4–254 Min > Max 255–255 Max
18	Focus	127	0–0 Min 1–254 Min > Max 255–255 Max
19	Zoom	127	0–0 Wide 1–254 Wide > Narrow 255–255 Narrow

20CH Mode (continued)

Ch	Function	Default	DMX values
20	Control1	0	0–69 No Func - Custom 70–79 BO During P/T On - Blackout 80–89 BO During P/T Off - Blackout 90–99 BO During Col Wheel Moving On - Blackout 100–109 BO During Col Wheel Moving Off - Blackout 110–119 BO During Gobo Wheel Moving On - Blackout 120–129 BO During Gobo Wheel Moving Off - Blackout 130–139 Lamp On - Lamp on 140–149 P/T Reset - Reset 150–159 Color Wheel Reset - Reset 160–169 Gobo Wheel Reset - Reset 170–179 Strobe/Prism Reset - Reset 180–189 No Func - Custom 190–199 Frost/Focus Reset - Reset 200–209 All Reset - Reset 210–219 BO All Function - Blackout 220–229 Disable BO All Function - Blackout 230–239 Lamp Off - Lamp off 240–255 No Func - Custom

25Ch Mode

25 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Position MSpeed	0	0–0 Min 1–254 Min > Max 255–255 Max
6	Dimmer	0	
7	Dimmer Fine	0	Fine byte of Dimmer
8	Shutter / Strobe	12	0–7 Closed - Shutter Closed 8–15 Open - Shutter Open 16–131 Strobe S > F - Strobe 132–167 Fast Off Slow On (S > F) - Strobe Pulse Open 168–203 Slow Off Fast On (S > F) - Strobe Pulse Closed 204–239 Pulse Random S > F - Strobe Pulse Random 240–250 Strobe Random S > F - Strobe Random 251–255 Open - Shutter Open
9	Color Wheel	0	0–1 Open - Color (wheel slot 1) 2–5 Red - Color (wheel slot 2) 6–9 Orange - Color (wheel slot 3) 10–13 Cyan - Color (wheel slot 4) 14–17 Light Green - Color (wheel slot 5) 18–21 Light Yellow - Color (wheel slot 6) 22–25 Lavender - Color (wheel slot 7) 26–29 Pink - Color (wheel slot 8) 30–33 Yellow - Color (wheel slot 9) 34–37 Magenta - Color (wheel slot 10) 38–41 Light Blue - Color (wheel slot 11) 42–45 Amber - Color (wheel slot 12) 46–49 CTB 3200K - CTB (wheel slot 13) 50–59 UV - Color (wheel slot 14) 60–187 Indexing - Indexing 188–219 F > S - Rotate CW 220–223 Stop - Stop Loop 224–255 S > F - Rotate CCW

25Ch Mode (continued)

Ch	Function	Default	DMX values
10	No Feature	0	
11	Gobo	0	0–0 Open (wheel slot 1) 1–5 Open Spot Mode (wheel slot 2) 6–11 Gobo 1 (wheel slot 3) 12–17 Gobo 2 (wheel slot 4) 18–23 Gobo 3 (wheel slot 5) 24–29 Gobo 4 (wheel slot 6) 30–35 Gobo 5 (wheel slot 7) 36–41 Gobo 6 (wheel slot 8) 42–47 Gobo 7 (wheel slot 9) 48–53 Gobo 8 (wheel slot 10) 54–69 Gobo 9 (wheel slot 11) 70–75 Gobo 8 (wheel slot 10) 76–81 Gobo 7 (wheel slot 9) 82–87 Gobo 6 (wheel slot 8) 88–93 Gobo 5 (wheel slot 7) 94–99 Gobo 4 (wheel slot 6) 100–105 Gobo 3 (wheel slot 5) 106–111 Gobo 2 (wheel slot 4) 112–117 Gobo 1 (wheel slot 3) 118–127 Open (wheel slot 1) 128–128 CW Gobo Scroll - Fast 129–190 CW Gobo Scroll - Fast > Slow 191–191 CW Gobo Scroll - Slow 192–192 CCW Gobo Scroll - Slow 193–254 CCW Gobo Scroll - Slow > Fast 255–255 CCW Gobo Scroll - Fast
12	Gobo Rotation	0	0–63 Indexing - Indexing 64–145 F > S - Rotate CW 146–149 Stop - Stop Loop 150–231 S > F - Rotate CCW 232–254 Bounce Short 255–255 Bounce Long
13	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
14	Prism	0	0–4 Open - Custom (wheel slot 1) 5–255 Prism 1 - Prism (wheel slot 2)
15	Prism Rotation	0	0–127 Indexing - Indexing 128–189 F > S - Rotate CW 190–193 Stop - Stop Loop 194–255 S > F - Rotate CCW
16	Prism	0	0–4 Open - Custom (wheel slot 1) 5–255 Prism - Prism (wheel slot 2)
17	Prism Rotation	0	0–127 Indexing - Indexing 128–189 F > S - Rotate CW 190–193 Stop - Stop Loop 194–255 S > F - Rotate CCW
18	Frost1	0	0–0 Min 1–254 Min > Max 255–255 Max
19	Frost2	0	0–3 Min 4–254 Min > Max 255–255 Max
20	Focus	127	0–0 Min 1–254 Min > Max 255–255 Max
21	Focus Fine	127	Fine byte of Focus

25Ch Mode (continued)

Ch	Function	Default	DMX values
22	Focus1Distance	0	0–10 Off 11–59 5m - Focus 60–108 10m - Focus 109–157 15m - Focus 158–206 20m - Focus 207–255 Auto Detect Distance - Focus
23	Zoom	127	0–254 Wide 255–255 Narrow
24	Zoom Fine	255	Fine byte of Zoom
25	Control1	0	0–69 No Func - Custom 70–79 BO During P/T On - Blackout 80–89 BO During P/T Off - Blackout 90–99 BO During Col Wheel Moving On - Blackout 100–109 BO During Col Wheel Moving Off - Blackout 110–119 BO During Gobo Wheel Moving On - Blackout 120–129 BO During Gobo Wheel Moving Off - Blackout 130–139 Lamp On - Lamp on 140–149 P/T Reset - Reset 150–159 Color Wheel Reset - Reset 160–169 Gobo Wheel Reset - Reset 170–179 Strobe/Prism Reset - Reset 180–189 No Func - Custom 190–199 Frost/Focus Reset - Reset 200–209 All Reset - Reset 210–219 BO All Function - Blackout 220–229 Disable BO All Function - Blackout 230–239 Lamp Off - Lamp off 240–255 No Func - Custom