CINDY

TOUGH 500 BEAM



Manufacturer	**CINDY**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**16, 18 channels**
Beam angle	**1.6°**
Pan range	**540°**
Tilt range	**260°**
Size (W × H × D)	**228 × 348 × 208 mm**
GDTF fixture type	**777363AE-DA51-41C0-8F6C-82…**

Controls

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

Safety-relevant functions

Lamp on and off · Fixture reset · Strobe

DMX modes

16Ch Mode	16 ch
18Ch Mode	18 ch

16Ch Mode

16 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	0–4 Open - Color (wheel slot 1) 5–8 Red - Color (wheel slot 2) 9–12 Orange - Color (wheel slot 3) 13–16 Cyan - Color (wheel slot 4) 17–20 Light Green - Color (wheel slot 5) 21–24 Light Yellow - Color (wheel slot 6) 25–28 Lavender - Color (wheel slot 7) 29–32 Pink - Color (wheel slot 8) 33–36 Yellow - Color (wheel slot 9) 37–40 Magenta - Color (wheel slot 10) 41–44 Light Blue - Color (wheel slot 11) 45–48 Amber - Color (wheel slot 12) 49–52 CTB 3200K - CTB (wheel slot 13) 53–56 CTO 6500K - CTO (wheel slot 14) 57–60 UV - Color (wheel slot 15) 61–127 Indexing - Indexing 128–189 F > S - Rotate CW 190–193 Stop - Stop Loop 194–255 S > F - Rotate CCW

16Ch Mode (continued)

Ch	Function	Default	DMX values
9	Gobo	0	0–3 Open - Gobo Open (wheel slot 1) 4–6 Gobo 1 - Gobo (wheel slot 2) 7–9 Gobo 2 - Gobo (wheel slot 3) 10–12 Gobo 3 - Gobo (wheel slot 4) 13–15 Gobo 4 - Gobo (wheel slot 5) 16–18 Gobo 5 - Gobo (wheel slot 6) 19–21 Gobo 6 - Gobo (wheel slot 7) 22–24 Gobo 7 - Gobo (wheel slot 8) 25–27 Gobo 8 - Gobo (wheel slot 9) 28–30 Gobo 9 - Gobo (wheel slot 10) 31–33 Gobo 10 - Gobo (wheel slot 11) 34–36 Gobo 11 - Gobo (wheel slot 12) 37–39 Gobo 12 - Gobo (wheel slot 13) 40–42 Gobo 13 - Gobo (wheel slot 14) 43–45 Gobo 14 - Gobo (wheel slot 15) 46–48 Gobo 15 - Gobo (wheel slot 16) 49–51 Gobo 16 - Gobo (wheel slot 17) 52–55 Gobo 17 - Gobo (wheel slot 18) 56–59 Open - Gobo Open (wheel slot 1) 60–63 Gobo 1 Shake - Gobo Shake (wheel slot 2) 64–67 Gobo 2 Shake - Gobo Shake (wheel slot 3) 68–71 Gobo 3 Shake - Gobo Shake (wheel slot 4) 72–75 Gobo 4 Shake - Gobo Shake (wheel slot 5) 76–79 Gobo 5 Shake - Gobo Shake (wheel slot 6) 80–83 Gobo 6 Shake - Gobo Shake (wheel slot 7) 84–87 Gobo 7 Shake - Gobo Shake (wheel slot 8) 88–91 Gobo 8 Shake - Gobo Shake (wheel slot 9) 92–95 Gobo 9 Shake - Gobo Shake (wheel slot 10) 96–99 Gobo 10 Shake - Gobo Shake (wheel slot 11) 100–103 Gobo 11 Shake - Gobo Shake (wheel slot 12) 104–107 Gobo 12 Shake - Gobo Shake (wheel slot 13) 108–111 Gobo 13 Shake - Gobo Shake (wheel slot 14) 112–115 Gobo 14 Shake - Gobo Shake (wheel slot 15) 116–119 Gobo 15 Shake - Gobo Shake (wheel slot 16) 120–123 Gobo 16 Shake - Gobo Shake (wheel slot 17) 124–127 Gobo 17 Shake - Gobo Shake (wheel slot 18) 128–189 F > S - Rotate CW 190–193 Stop - Stop Loop 194–255 S > F - Rotate CCW
10	Prism	0	0–4 No Func - Custom (wheel slot 1) 5–255 Prism 1 - Prism (wheel slot 2)
11	Prism Rotation	0	0–127 Indexing - Indexing 128–189 F > S - Rotate CW 190–193 Stop - Stop Loop 194–255 S > F - Rotate CCW
12	Prism	0	0–4 No Func - 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	Frost1	0	0–0 Min 1–254 Min > Max 255–255 Max
15	Focus	127	0–0 Min 1–254 Min > Max 255–255 Max

16Ch Mode (continued)

Ch	Function	Default	DMX values
16	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

18Ch Mode

18 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

18Ch Mode (continued)

Ch	Function	Default	DMX values
9	Color Wheel	0	0–4 Open - Color (wheel slot 1) 5–8 Red - Color (wheel slot 2) 9–12 Orange - Color (wheel slot 3) 13–16 Cyan - Color (wheel slot 4) 17–20 Light Green - Color (wheel slot 5) 21–24 Light Yellow - Color (wheel slot 6) 25–28 Lavender - Color (wheel slot 7) 29–32 Pink - Color (wheel slot 8) 33–36 Yellow - Color (wheel slot 9) 37–40 Magenta - Color (wheel slot 10) 41–44 Light Blue - Color (wheel slot 11) 45–48 Amber - Color (wheel slot 12) 49–52 CTB 3200K - CTB (wheel slot 13) 53–56 CTO 6500K - CTO (wheel slot 14) 57–60 UV - Color (wheel slot 15) 61–127 Indexing - Indexing 128–189 F > S - Rotate CW 190–193 Stop - Stop Loop 194–255 S > F - Rotate CCW
10	Gobo	0	0–3 Open - Gobo Open (wheel slot 1) 4–6 Gobo 1 - Gobo (wheel slot 2) 7–9 Gobo 2 - Gobo (wheel slot 3) 10–12 Gobo 3 - Gobo (wheel slot 4) 13–15 Gobo 4 - Gobo (wheel slot 5) 16–18 Gobo 5 - Gobo (wheel slot 6) 19–21 Gobo 6 - Gobo (wheel slot 7) 22–24 Gobo 7 - Gobo (wheel slot 8) 25–27 Gobo 8 - Gobo (wheel slot 9) 28–30 Gobo 9 - Gobo (wheel slot 10) 31–33 Gobo 10 - Gobo (wheel slot 11) 34–36 Gobo 11 - Gobo (wheel slot 12) 37–39 Gobo 12 - Gobo (wheel slot 13) 40–42 Gobo 13 - Gobo (wheel slot 14) 43–45 Gobo 14 - Gobo (wheel slot 15) 46–48 Gobo 15 - Gobo (wheel slot 16) 49–51 Gobo 16 - Gobo (wheel slot 17) 52–55 Gobo 17 - Gobo (wheel slot 18) 56–59 Open - Gobo Open (wheel slot 1) 60–63 Gobo 1 Shake - Gobo Shake (wheel slot 2) 64–67 Gobo 2 Shake - Gobo Shake (wheel slot 3) 68–71 Gobo 3 Shake - Gobo Shake (wheel slot 4) 72–75 Gobo 4 Shake - Gobo Shake (wheel slot 5) 76–79 Gobo 5 Shake - Gobo Shake (wheel slot 6) 80–83 Gobo 6 Shake - Gobo Shake (wheel slot 7) 84–87 Gobo 7 Shake - Gobo Shake (wheel slot 8) 88–91 Gobo 8 Shake - Gobo Shake (wheel slot 9) 92–95 Gobo 9 Shake - Gobo Shake (wheel slot 10) 96–99 Gobo 10 Shake - Gobo Shake (wheel slot 11) 100–103 Gobo 11 Shake - Gobo Shake (wheel slot 12) 104–107 Gobo 12 Shake - Gobo Shake (wheel slot 13) 108–111 Gobo 13 Shake - Gobo Shake (wheel slot 14) 112–115 Gobo 14 Shake - Gobo Shake (wheel slot 15) 116–119 Gobo 15 Shake - Gobo Shake (wheel slot 16) 120–123 Gobo 16 Shake - Gobo Shake (wheel slot 17) 124–127 Gobo 17 Shake - Gobo Shake (wheel slot 18) 128–189 F > S - Rotate CW 190–193 Stop - Stop Loop 194–255 S > F - Rotate CCW
11	Prism	0	0–4 Open - Custom (wheel slot 1) 5–255 Prism 1 - Prism (wheel slot 2)

18Ch Mode (continued)

Ch	Function	Default	DMX values
12	Prism Rotation	0	0–127 Indexing - Indexing 128–189 F > S - Rotate CW 190–193 Stop - Stop Loop 194–255 S > F - Rotate CCW
13	Prism	0	0–4 Open - Custom (wheel slot 1) 5–255 Prism - Prism (wheel slot 2)
14	Prism Rotation	0	0–127 Indexing - Indexing 128–189 F > S - Rotate CW 190–193 Stop - Stop Loop 194–255 S > F - Rotate CCW
15	Frost1	0	0–0 Min 1–254 Min > Max 255–255 Max
16	Focus	127	0–0 Min 1–254 Min > Max 255–255 Max
17	Focus Fine	127	Fine byte of Focus
18	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