DTS

MAX



Manufacturer	**DTS**
Type	**Profile spot**
DMX modes	**2**
DMX footprint	**24, 33 channels**
Beam angle	**1.5-40°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**300 × 300 × 200 mm**
GDTF fixture type	**3CC50B1B-EA52-5FDE-BD79-2E…**

Controls

Focus · Frost · Iris · Prism · Prism rotation · Zoom · CMY colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pan and tilt · Movement speed · Animation wheel · Gobos · Gobo rotation

Safety-relevant functions

Lamp on and off · Fixture reset

DMX modes

24 CHANNELS MODE	24 ch
33 CHANNELS MODE	33 ch

24 CHANNELS 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	0–10 Standard 11–25 Fast movement 26–127 Vector mode from fast to slow 128–247 Variable time reaction to dmx signal (fast to slow) 248–255 Silent movement
6	Position Modes	0	0–10 Position mode 540° (standard path) 11–20 Position mode 360° (1 turn) 21–30 Position mode 720° (2 turns) 31–40 Position mode 1080° (3 turns) 41–50 Position mode 1440° (4 turns) 51–60 Position mode 1800° (5 turns) 61–70 Position mode 2160° (6 turns) 71–80 Position mode 2520° (7 turns) 81–90 Position mode 2880° (8 turns) 91–100 Position mode 3240° (9 turns) 101–110 Position mode 3600° (10 turns) 111–120 Position mode 360° smart path 121–182 Forward spin rotation speed from max to min 183–193 Stop 194–255 Reverse spin rotation speed from min to max
7	Dimmer	0	0–7 Black-out 8–255 Proportional dimmer
8	Shutter / Strobe	20	0–19 Black-out (blackout) 20–39 Open 40–59 Black-out (blackout) 60–79 Strobe random speed 80–89 Strobe speed 1 (0.86 flash/sec) 90–99 Strobe speed 2 (1.40 flash/sec) 100–109 Strobe speed 3 (3.78 flash/sec) 110–119 Strobe speed 4 (5.00 flash/sec) 120–129 Strobe speed 5 (6.75 flash/sec) 130–139 Strobe speed 6 (10.00 flash/sec) 140–149 Flash open speed 1 150–159 Flash open speed 2 160–169 Flash open speed 3 170–179 Flash open speed 4 180–189 Flash closed speed 1 190–199 Flash closed speed 2 200–209 Flash closed speed 3 210–219 Flash closed speed 4 220–227 Colours/Gobo in black-out 228–233 Pan/Tilt in black-out 234–255 Open

24 CHANNELS MODE (continued)

Ch	Function	Default	DMX values
9	Color Wheel	0	0–4 Colour 1 (open, assumed) (wheel slot 1) 5–9 Colour 1 (open, assumed) / Colour 2 (Red) (wheel slot 1) 10–14 Colour 2 (Red) (wheel slot 2) 15–19 Colour 2 (Red) / Colour 3 (Yellow 1) (wheel slot 2) 20–24 Colour 3 (Yellow 1) (wheel slot 3) 25–29 Colour 3 (Yellow 1) / Colour 4 (Green) (wheel slot 3) 30–34 Colour 4 (Green) (wheel slot 4) 35–39 Colour 4 (Green) / Colour 5 (Pink) (wheel slot 4) 40–44 Colour 5 (Pink) (wheel slot 5) 45–49 Colour 5 (Pink) / Colour 6 (Full CTO) (wheel slot 5) 50–54 Colour 6 (Full CTO) (wheel slot 6) 55–59 Colour 6 (Full CTO) / Colour 7 (Full CTB) (wheel slot 6) 60–64 Colour 7 (Full CTB) (wheel slot 7) 65–69 Colour 7 (Full CTB) / Colour 8 (Orange) (wheel slot 7) 70–74 Colour 8 (Orange) (wheel slot 8) 75–79 Colour 8 (Orange) / Colour 9 (Light Pink) (wheel slot 8) 80–84 Colour 9 (Light Pink) (wheel slot 9) 85–89 Colour 9 (Light Pink) / Colour 10 (Light Red) (wheel sl… 90–94 Colour 10 (Light Red) (wheel slot 10) 95–99 Colour 10 (Light Red) / Colour 11 (wheel colour 10, n… 100–104 Colour 11 (wheel colour 10, name not printed) (wh… 105–109 Colour 11 (wheel colour 10, name not printed) / Co… 110–114 Colour 12 (Yellow 2) (wheel slot 12) 115–119 Colour 12 (Yellow 2) / Colour 13 (Light Blue) (wheel… 120–124 Colour 13 (Light Blue) (wheel slot 13) 125–129 Colour 13 (Light Blue) / Colour 14 (Light Green) (w… 130–134 Colour 14 (Light Green) (wheel slot 14) 135–139 Colour 14 (Light Green) / Colour 15 (Magenta) (wh… 140–144 Colour 15 (Magenta) (wheel slot 15) 145–149 Colour 15 (Magenta) / Colour 16 (Blue) (wheel slot … 150–154 Colour 16 (Blue) (wheel slot 16) 155–159 Colour 16 (Blue) / Colour 17 (Amber) (wheel slot 16) 160–164 Colour 17 (Amber) (wheel slot 17) 165–169 Colour 17 (Amber) / Colour 18 (Dark Green) (wheel… 170–174 Colour 18 (Dark Green) (wheel slot 18) 175–197 Colour 18 (Dark Green) / Colour 1 (open, assumed)… 198–200 Right rotation speed 9 max 201–203 Right rotation speed 8 204–206 Right rotation speed 7 207–209 Right rotation speed 6 210–212 Right rotation speed 5 213–215 Right rotation speed 4 216–218 Right rotation speed 3 219–221 Right rotation speed 2 222–224 Right rotation speed 1 min 225–228 Stop 229–231 Left rotation speed 1 min 232–234 Left rotation speed 2 235–237 Left rotation speed 3 238–240 Left rotation speed 4 241–243 Left rotation speed 5 244–246 Left rotation speed 6 247–249 Left rotation speed 7 250–252 Left rotation speed 8 253–255 Left rotation speed 9 max
10	Cyan	0	
11	Magenta	0	
12	Yellow	0	
13	C TO	0	0–7 No function 8–255 Linear CTO from min to max

24 CHANNELS MODE (continued)

Ch	Function	Default	DMX values
14	Gobo	0	0–20 Open (wheel slot 1) 21–41 Gobo 1 (wheel slot 2) 42–62 Gobo 2 (wheel slot 3) 63–83 Gobo 3 (wheel slot 4) 84–104 Gobo 4 (wheel slot 5) 105–125 Gobo 5 (wheel slot 6) 126–146 Gobo 6 (wheel slot 7) 147–167 Gobo 7 (wheel slot 8) 168–188 Gobo 8 (wheel slot 9) 189–207 Gobo 9 (wheel slot 10) 208–213 Speed rotation 1 min 214–219 Speed rotation 2 220–225 Speed rotation 3 226–231 Speed rotation 4 232–237 Speed rotation 5 238–243 Speed rotation 6 244–249 Speed rotation 7 250–255 Speed rotation 8 max
15	Gobo Rotation	0	0–127 Proportional index 0°-360° 128–180 Left rotation 181–202 Stop 203–255 Right rotation
16	Gobo 2	0	0–18 Open (wheel slot 1) 19–37 Gobo 1 (wheel slot 2) 38–56 Gobo 2 (wheel slot 3) 57–75 Gobo 3 (wheel slot 4) 76–94 Gobo 4 (wheel slot 5) 95–113 Gobo 5 (wheel slot 6) 114–132 Gobo 6 (wheel slot 7) 133–151 Gobo 7 (wheel slot 8) 152–170 Gobo 8 (wheel slot 9) 171–189 Gobo 9 (wheel slot 10) 190–207 Gobo 10 (wheel slot 11) 208–213 Speed rotation 1 min 214–219 Speed rotation 2 220–225 Speed rotation 3 226–231 Speed rotation 4 232–237 Speed rotation 5 238–243 Speed rotation 6 244–255 Speed rotation 7 max
17	Iris	0	0–9 Open 10–124 Linear Iris from open to closed 125–132 Closed 133–159 Iris pulse at different speed from min to max 160–186 Iris pulse with flash closing from min to max 187–213 Iris pulse with flash opening from min to max 214–234 Iris pulse with flash closing combined with zoom f... 235–255 Iris pulse with flash opening combined with zoom ...
18	Animation Wheel1	0	0–9 No function 10–255 Linear animation position
19	Frost1	0	0–127 No function 128–255 Frost inserted
20	Prism	0	0–127 No effect (wheel slot 1) 128–255 Prism inserted (wheel slot 2)
21	Prism Rotation	0	0–9 Stop 10–127 Left rotation from fast to slow 128–137 Stop 138–255 Right rotation from slow to fast
22	Focus	0	

24 CHANNELS MODE (continued)

Ch	Function	Default	DMX values
23	Zoom	0	
24	Control1	0	0–9 No effect 10–60 Lamp OFF (3 sec) 61–129 No effect 130–179 Lamp ON (3 sec) 180–200 No effect 201–239 Internal motor reset 240–255 Total reset

33 CHANNELS MODE

33 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	0–10 Standard 11–25 Fast movement 26–127 Vector mode from fast to slow 128–247 Variable time reaction to dmx signal (fast to slow) 248–255 Silent movement
6	Position Modes	0	0–10 Position mode 540° (standard path) 11–20 Position mode 360° (1 turn) 21–30 Position mode 720° (2 turns) 31–40 Position mode 1080° (3 turns) 41–50 Position mode 1440° (4 turns) 51–60 Position mode 1800° (5 turns) 61–70 Position mode 2160° (6 turns) 71–80 Position mode 2520° (7 turns) 81–90 Position mode 2880° (8 turns) 91–100 Position mode 3240° (9 turns) 101–110 Position mode 3600° (10 turns) 111–120 Position mode 360° smart path 121–182 Forward spin rotation speed from max to min 183–193 Stop 194–255 Reverse spin rotation speed from min to max
7	Dimmer	0	0–7 Black-out 8–255 Proportional dimmer

33 CHANNELS MODE (continued)

Ch	Function	Default	DMX values
8	Shutter / Strobe	20	0–19 Black-out (blackout) 20–39 Open 40–59 Black-out (blackout) 60–79 Strobe random speed 80–89 Strobe speed 1 (0.86 flash/sec) 90–99 Strobe speed 2 (1.40 flash/sec) 100–109 Strobe speed 3 (3.78 flash/sec) 110–119 Strobe speed 4 (5.00 flash/sec) 120–129 Strobe speed 5 (6.75 flash/sec) 130–139 Strobe speed 6 (10.00 flash/sec) 140–149 Flash open speed 1 150–159 Flash open speed 2 160–169 Flash open speed 3 170–179 Flash open speed 4 180–189 Flash closed speed 1 190–199 Flash closed speed 2 200–209 Flash closed speed 3 210–219 Flash closed speed 4 220–227 Colours/Gobo in black-out 228–233 Pan/Tilt in black-out 234–255 Open
9	Color Wheel	0	0–13 Colour 1 (open, assumed) (wheel slot 1) 14–27 Colour 2 (Red) (wheel slot 2) 28–41 Colour 3 (Yellow 1) (wheel slot 3) 42–55 Colour 4 (Green) (wheel slot 4) 56–69 Colour 5 (Pink) (wheel slot 5) 70–83 Colour 6 (Full CTO) (wheel slot 6) 84–97 Colour 7 (Full CTB) (wheel slot 7) 98–111 Colour 8 (Orange) (wheel slot 8) 112–125 Colour 9 (Light Pink) (wheel slot 9) 126–139 Colour 10 (Light Red) (wheel slot 10) 140–153 Colour 11 (wheel colour 10, name not printed) (wh… 154–167 Colour 12 (Yellow 2) (wheel slot 12) 168–181 Colour 13 (Light Blue) (wheel slot 13) 182–195 Colour 14 (Light Green) (wheel slot 14) 196–209 Colour 15 (Magenta) (wheel slot 15) 210–223 Colour 16 (Blue) (wheel slot 16) 224–237 Colour 17 (Amber) (wheel slot 17) 238–255 Colour 18 (Dark Green) (wheel slot 18)
10	Control3	0	0–63 Full colour 64–127 Half colour 128–191 Proportional colour 192–255 Rainbow
11	Cyan	0	
12	Magenta	0	
13	Yellow	0	
14	C TO	0	0–7 No function 8–255 Linear CTO from min to max
15	Color Mix MSpeed	0	0–7 No function 8–255 Variable speed from max to min

33 CHANNELS MODE (continued)

Ch	Function	Default	DMX values
16	Color Macro1	0	0–9 No function 10–14 Macro 1 15–19 Macro 2 20–24 Macro 3 25–29 Macro 4 30–34 Macro 5 35–39 Macro 6 40–44 Macro 7 45–49 Macro 8 50–54 Macro 9 55–59 Macro 10 60–64 Macro 11 65–69 Macro 12 70–74 Macro 13 75–79 Macro 14 80–84 Macro 15 85–89 Macro 16 90–94 Macro 17 95–99 Macro 18 100–104 Macro 19 105–109 Macro 20 110–114 Macro 21 115–121 Macro rainbow wait = 0 122–128 Macro rainbow wait = 2 129–135 Macro rainbow wait = 3 136–142 Macro rainbow wait = 4 143–149 Macro rainbow wait = 5 150–156 Macro rainbow wait = 6 157–163 Macro rainbow wait = 7 164–170 Macro rainbow wait = 8 171–177 Macro rainbow wait = 9 178–185 Macro rainbow wait = 10 186–192 Full colours rainbow wait = 0 193–199 Full colours rainbow wait = 2 200–206 Full colours rainbow wait = 3 207–213 Full colours rainbow wait = 4 214–220 Full colours rainbow wait = 5 221–227 Full colours rainbow wait = 6 228–234 Full colours rainbow wait = 7 235–241 Full colours rainbow wait = 8 242–248 Full colours rainbow wait = 9 249–255 Full colours rainbow wait = 10
17	Gobo	0	0–20 Open (wheel slot 1) 21–41 Gobo 1 (wheel slot 2) 42–62 Gobo 2 (wheel slot 3) 63–83 Gobo 3 (wheel slot 4) 84–104 Gobo 4 (wheel slot 5) 105–125 Gobo 5 (wheel slot 6) 126–146 Gobo 6 (wheel slot 7) 147–167 Gobo 7 (wheel slot 8) 168–188 Gobo 8 (wheel slot 9) 189–207 Gobo 9 (wheel slot 10) 208–213 Speed rotation 1 min 214–219 Speed rotation 2 220–225 Speed rotation 3 226–231 Speed rotation 4 232–237 Speed rotation 5 238–243 Speed rotation 6 244–249 Speed rotation 7 250–255 Speed rotation 8 max
18	Control2	0	0–127 Gobo rotation mode 128–255 Gobo index mode

33 CHANNELS MODE (continued)

Ch	Function	Default	DMX values
19	Gobo Rotation	0	0–9 Stop 10–127 Left rotation (max to min) 128–137 Stop 138–255 Right rotation (min to max)
20	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
21	Gobo1Pos Shake	0	0–9 Stop 10–22 Gobo shake R-L speed 1 23–35 Gobo shake R-L speed 2 36–48 Gobo shake R-L speed 3 49–61 Gobo shake R-L speed 4 62–74 Gobo shake R-L speed 5 75–87 Gobo shake R-L speed 6 88–100 Gobo shake R-L speed 7 101–113 Gobo shake R-L speed 8 114–126 Gobo shake R-L speed 9 127–138 Stop 139–151 Gobo shake L-R speed 1 152–164 Gobo shake L-R speed 2 165–177 Gobo shake L-R speed 3 178–190 Gobo shake L-R speed 4 191–203 Gobo shake L-R speed 5 204–216 Gobo shake L-R speed 6 217–229 Gobo shake L-R speed 7 230–242 Gobo shake L-R speed 8 243–255 Gobo shake L-R speed 9
22	Gobo 2	0	0–18 Open (wheel slot 1) 19–37 Gobo 1 (wheel slot 2) 38–56 Gobo 2 (wheel slot 3) 57–75 Gobo 3 (wheel slot 4) 76–94 Gobo 4 (wheel slot 5) 95–113 Gobo 5 (wheel slot 6) 114–132 Gobo 6 (wheel slot 7) 133–151 Gobo 7 (wheel slot 8) 152–170 Gobo 8 (wheel slot 9) 171–189 Gobo 9 (wheel slot 10) 190–207 Gobo 10 (wheel slot 11) 208–213 Speed rotation 1 min 214–219 Speed rotation 2 220–225 Speed rotation 3 226–231 Speed rotation 4 232–237 Speed rotation 5 238–243 Speed rotation 6 244–255 Speed rotation 7 max

33 CHANNELS MODE (continued)

Ch	Function	Default	DMX values
23	Gobo2Wheel Shake	0	0–9 Stop 10–22 Gobo shake R-L speed 1 23–35 Gobo shake R-L speed 2 36–48 Gobo shake R-L speed 3 49–61 Gobo shake R-L speed 4 62–74 Gobo shake R-L speed 5 75–87 Gobo shake R-L speed 6 88–100 Gobo shake R-L speed 7 101–113 Gobo shake R-L speed 8 114–126 Gobo shake R-L speed 9 127–138 Stop 139–151 Gobo shake L-R speed 1 152–164 Gobo shake L-R speed 2 165–177 Gobo shake L-R speed 3 178–190 Gobo shake L-R speed 4 191–203 Gobo shake L-R speed 5 204–216 Gobo shake L-R speed 6 217–229 Gobo shake L-R speed 7 230–242 Gobo shake L-R speed 8 243–255 Gobo shake L-R speed 9
24	Iris	0	0–9 Open 10–246 Linear iris from open to closed 247–255 Closed
25	Iris Pulse	0	0–9 No effect 10–63 Iris pulse at different speed from min to max 64–117 Iris pulse with flash closing from min to max 118–171 Iris pulse with flash opening from min to max 172–213 Iris pulse with flash closing combined with zoom f... 214–255 Iris pulse with flash opening combined with zoom ...
26	Animation Wheel1	0	0–9 No function 10–255 Linear animation position
27	Frost1	0	0–127 No function 128–255 Frost inserted
28	Prism	0	0–127 No effect (wheel slot 1) 128–255 Prism inserted (wheel slot 2)
29	Prism Rotation	0	0–9 Stop 10–127 Left rotation from fast to slow 128–137 Stop 138–255 Right rotation from slow to fast
30	Focus	0	
31	Focus Fine	0	Fine byte of Focus
32	Zoom	0	
33	Control1	0	0–9 No effect 10–60 Lamp OFF (3 sec) 61–129 No effect 130–179 Lamp ON (3 sec) 180–200 No effect 201–239 Internal motor reset 240–255 Total reset

Fixture model: gdtf-dts-max-2611046007
Original HitLight parametric reconstruction. Manufacturer drawings and photographs used as dimensional and visual references; no third-part...
Creator: HitLight