DTS Lighting

Synergy 6 Profile HI-CRI



Manufacturer	**DTS Lighting**
Type	**Profile spot**
DMX modes	**2**
DMX footprint	**44, 53 channels**
Beam angle	**4.6-43°**
Pan range	**540°**
Tilt range	**240°**
Size (W × H × D)	**311 × 510 × 241 mm**
GDTF fixture type	**5EF52B79-18DF-4AE1-BFAA-12…**

Controls

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

Safety-relevant functions

Fixture reset · Strobe

DMX modes

44 Channels	44 ch
53 Channels	53 ch

44 Channels

44 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	0–9 Fast Movement 10–25 Standard Movement 26–127 Vector Mode fast>slow 128–247 DMX React fast>slow 248–255 Silente Movement
6	Dummy	0	
7	Dimmer	0	
8	Dimmer Fine	0	Fine byte of Dimmer
9	Shutter / Strobe	10	0–9 Closed 10–19 Open 20–29 Closed 30–118 Min Strobe 119–119 Max Strobe 120–148 Min PulseUp 149–149 Max PulseUp 150–178 Min PulseDown 179–179 Max PulseDown 180–199 Random Strobe 200–209 Gobo/ColWheel in BO on Movement 210–219 P/T in BO on Movement 220–222 Blades in BO on Insertion 223–224 Frost/Prism in BO on Insertion 225–226 Zoom in BO on Movement 227–229 ALL in BO on Move/Ins 230–255 Open
10	Color Wheel	0	0–9 Open (wheel slot 1) 10–49 Dark Red (wheel slot 2) 50–89 Navy Blue (wheel slot 3) 90–127 Dark Green (wheel slot 4) 128–129 Stop (wheel slot 1) 130–137 Amber (wheel slot 5) 138–169 CCW Rotation slow>fast (wheel slot 1) 170–209 Purple (wheel slot 6) 210–255 Light pink (wheel slot 7)
11	Color1Mode	0	0–63 Full Color 64–127 Half Color 128–191 Proportional Color 192–255 Rainbow
12	Cyan	0	
13	Magenta	0	
14	Yellow	0	
15	C TO	0	0–0 6000 K 1–254 CTO 6000K > 2700K 255–255 CTO 2700 K

44 Channels (continued)

Ch	Function	Default	DMX values
16	Color Macro1	0	0–9 Open (wheel slot 1) 10–20 L019 Fire (wheel slot 2) 21–25 L020 Medium Amber (wheel slot 3) 26–30 L025 Sunset Red (wheel slot 4) 31–35 L068 Sky Blue (wheel slot 5) 36–40 L101 Yellow (wheel slot 6) 41–45 L104 Deep Amber (wheel slot 7) 46–50 L105 Orange (wheel slot 8) 51–55 L106 Primary Red (wheel slot 9) 56–60 L111 Dark Pink (wheel slot 10) 61–65 L113 Magenta (wheel slot 11) 66–70 L117 Steel Blue (wheel slot 12) 71–75 L118 Light Blue (wheel slot 13) 76–80 L122 Fern Green (wheel slot 14) 81–85 L126 Mauve (wheel slot 15) 86–90 L132 Medium Blue (wheel slot 16) 91–95 L136 Pale Lavender (wheel slot 17) 96–100 L137 Special Lavender (wheel slot 18) 101–105 L138 Pale Green (wheel slot 19) 106–110 L139 Primary Green (wheel slot 20) 111–115 L147 Apricot (wheel slot 21) 116–120 L151 Gold Tint (wheel slot 22) 121–125 L154 Pale Rose (wheel slot 23) 126–130 L156 Chocolate (wheel slot 24) 131–135 L181 Congo Blue (wheel slot 25) 136–140 L200 Double CTB (wheel slot 26) 141–145 L201 Full CTB (wheel slot 27) 146–150 L204 Full CTO (wheel slot 28) 151–255 L341 Plum (wheel slot 29)
17	Gobo	0	0–9 Open (wheel slot 1) 10–42 Gobo 1 (wheel slot 2) 43–75 Gobo 2 (wheel slot 3) 76–108 Gobo 3 (wheel slot 4) 109–141 Gobo 4 (wheel slot 5) 142–174 Gobo 5 (wheel slot 6) 175–207 Gobo 6 (wheel slot 7) 208–213 Speed 1 214–219 Speed 2 220–225 Speed 3 226–231 Speed 4 232–237 Speed 5 238–243 Speed 6 244–249 Speed 7 250–255 Speed 8
18	Gobo Rotation	0	0–127 Index 0 > 360 deg 128–180 CCW Gobo Rotation fast>slow 181–202 Stop 203–255 CW Gobo Rotation slow>fast
19	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

44 Channels (continued)

Ch	Function	Default	DMX values
20	Gobo1Wheel Shake	0	0–9 Stop 10–19 Shake R-L speed 1 20–29 Shake R-L speed 2 30–39 Shake R-L speed 3 40–49 Shake R-L speed 4 50–59 Shake R-L speed 5 60–69 Shake R-L speed 6 70–79 Shake R-L speed 7 80–89 Shake R-L speed 8 90–99 Shake R-L speed 9 100–109 Shake R-L speed 10 110–126 Shake R-L speed 11 127–138 Stop 139–148 Shake L-R speed 1 149–158 Shake L-R speed 2 159–168 Shake L-R speed 3 169–178 Shake L-R speed 4 179–188 Shake L-R speed 5 189–198 Shake L-R speed 6 199–208 Shake L-R speed 7 209–218 Shake L-R speed 8 219–228 Shake L-R speed 9 229–238 Shake L-R speed 10 239–255 Shake L-R speed 11
21	Shaper Rot	127	0–126 -45deg > 0deg 127–128 0deg position 129–255 0deg > 45deg
22	Blade1A	0	
23	Blade1Rot	128	0–127 -30deg > 0deg 128–128 0deg position 129–255 0deg > 30deg
24	Blade2A	0	
25	Blade2Rot	128	0–127 -30deg > 0deg 128–128 0deg position 129–255 0deg > 30deg
26	Blade3A	0	
27	Blade3Rot	128	0–127 -30deg > 0deg 128–128 0deg position 129–255 0deg > 30deg
28	Blade4A	0	
29	Blade4Rot	128	0–127 -30deg > 0deg 128–128 0deg position 129–255 0deg > 30deg
30	Shaper Macros	0	

44 Channels (continued)

Ch	Function	Default	DMX values
31	Animation System1Macro	0	0–9 No Function 10–15 Dynamove 1 16–21 Dynamove 2 22–27 Dynamove 3 28–33 Dynamove 4 34–39 Dynamove 5 40–45 Dynamove 6 46–51 Dynamove 7 52–57 Dynamove 8 58–63 Dynamove 9 64–69 Dynamove 10 70–75 Dynamove 11 76–81 Dynamove 12 82–87 Dynamove 13 88–93 Dynamove 14 94–99 Dynamove 15 100–101 Dynamove 16 102–103 Dynamove 17 104–105 Dynamove 18 106–107 Dynamove 19 108–109 Dynamove 20 110–111 Dynamove 21 112–113 Dynamove 22 114–115 Dynamove 23 116–117 Dynamove 24 118–119 Dynamove 25 120–121 Dynamove 26 122–123 Dynamove 27 124–125 Dynamove 28 126–127 Dynamove 29 128–129 Dynamove 30 130–131 Dynamove 31 132–133 Dynamove 32 134–255 Dynamove 33
32	Effect Speed	0	0–10 Default speed (1x) 11–50 1x > 5x 51–90 5x > 1x 91–159 Default speed (1x) 160–255 1x > 1/10x
33	Prism	0	0–9 Open (wheel slot 1) 10–49 Prism 1 (after lens) (wheel slot 3) 50–89 Prism 2 (after lens) (wheel slot 2) 90–129 Prisms 1+2 (aftern lens) 130–169 Prism 1 (before lens) (wheel slot 3) 170–209 Prism 2 (before lens) (wheel slot 2) 210–255 Prisms 1+2 (before lens)
34	Prism Rotation	0	0–9 Center 10–127 Left > Center 128–137 Center 138–255 Center > Right
35	Prism Rotation	0	0–127 Index 0deg > 360deg 128–180 CW Rotation fast>slow 181–202 Stop 203–255 CCW Rotation slow>fast
36	Prism Rotation	0	0–9 Center 10–127 Right > Center 128–137 Center 138–255 Center > Left

44 Channels (continued)

Ch	Function	Default	DMX values
37	Prism Rotation	0	0–127 Index 0deg > 360deg 128–180 CW Rotation fast>slow 181–202 Stop 203–255 CCW Rotation slow>fast
38	Dummy	0	
39	Frost1	0	0–9 Open 10–254 Min 255–255 Max
40	Focus	0	
41	Focus Fine	0	Fine byte of Focus
42	Zoom	0	
43	Control1	31	
44	Fixture Global Reset	0	0–9 No Function 10–75 P/T Reset 76–95 Head Motors Reset 96–115 Gobo Wheel Reset 116–135 Color Wheel Reset 136–155 CMY/CTO Reset 156–175 Framing System Reset 176–195 Prisms Reset 196–215 Smooth/Frost Reset 216–239 Focus/Zoom Reset 240–255 Global Reset

53 Channels

53 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	0–9 Fast Movement 10–25 Standard Movement 26–127 Vector Mode fast>slow 128–247 DMX React fast>slow 248–255 Silente Movement
6	Dummy	0	
7	Dimmer	0	
8	Dimmer Fine	0	Fine byte of Dimmer

53 Channels (continued)

Ch	Function	Default	DMX values
9	Shutter / Strobe	10	0–9 Closed 10–19 Open 20–29 Closed 30–118 Min Strobe 119–119 Max Strobe 120–148 Min PulseUp 149–149 Max PulseUp 150–178 Min PulseDown 179–179 Max PulseDown 180–199 Random Strobe 200–209 Gobo/ColWheel in BO on Movement 210–219 P/T in BO on Movement 220–222 Blades in BO on Insertion 223–224 Frost/Prism in BO on Insertion 225–226 Zoom in BO on Movement 227–229 ALL in BO on Move/Ins 230–255 Open
10	Color Wheel	0	0–9 Open (wheel slot 1) 10–44 Dark Red (wheel slot 2) 45–49 Navy Blue (wheel slot 3) 50–79 Navy Blue (wheel slot 3) 80–89 Dark Green (wheel slot 4) 90–114 Dark Green (wheel slot 4) 115–127 Amber (wheel slot 5) 128–129 Stop (wheel slot 1) 130–137 Amber (wheel slot 5) 138–149 CCW Rotation slow>fast (wheel slot 1) 150–184 Purple (wheel slot 6) 185–255 Light Pink (wheel slot 7)
11	Color1Mode	0	0–63 Full Color 64–127 Half Color 128–191 Proportional Color 192–255 Rainbow
12	Cyan	0	
13	Magenta	0	
14	Yellow	0	
15	C TO	0	0–0 6000 K 1–254 CTO 6000K > 2700K 255–255 CTO 2700 K

53 Channels (continued)

Ch	Function	Default	DMX values
16	Color Macro1	0	0–9 Open (wheel slot 1) 10–20 L019 Fire (wheel slot 2) 21–25 L020 Medium Amber (wheel slot 3) 26–30 L025 Sunset Red (wheel slot 4) 31–35 L068 Sky Blue (wheel slot 5) 36–40 L101 Yellow (wheel slot 6) 41–45 L104 Deep Amber (wheel slot 7) 46–50 L105 Orange (wheel slot 8) 51–55 L106 Primary Red (wheel slot 9) 56–60 L111 Dark Pink (wheel slot 10) 61–65 L113 Magenta (wheel slot 11) 66–70 L117 Steel Blue (wheel slot 12) 71–75 L118 Light Blue (wheel slot 13) 76–80 L122 Fern Green (wheel slot 14) 81–85 L126 Mauve (wheel slot 15) 86–90 L132 Medium Blue (wheel slot 16) 91–95 L136 Pale Lavender (wheel slot 17) 96–100 L137 Special Lavender (wheel slot 18) 101–105 L138 Pale Green (wheel slot 19) 106–110 L139 Primary Green (wheel slot 20) 111–115 L147 Apricot (wheel slot 21) 116–120 L151 Gold Tint (wheel slot 22) 121–125 L154 Pale Rose (wheel slot 23) 126–130 L156 Chocolate (wheel slot 24) 131–135 L181 Congo Blue (wheel slot 25) 136–140 L200 Double CTB (wheel slot 26) 141–145 L201 Full CTB (wheel slot 27) 146–150 L204 Full CTO (wheel slot 28) 151–255 L341 Plum (wheel slot 29)
17	Gobo	0	0–9 Open (wheel slot 1) 10–42 Gobo 1 (wheel slot 2) 43–75 Gobo 2 (wheel slot 3) 76–108 Gobo 3 (wheel slot 4) 109–141 Gobo 4 (wheel slot 5) 142–174 Gobo 5 (wheel slot 6) 175–207 Gobo 6 (wheel slot 7) 208–213 Speed 1 214–219 Speed 2 220–225 Speed 3 226–231 Speed 4 232–237 Speed 5 238–243 Speed 6 244–249 Speed 7 250–255 Speed 8
18	Gobo Rotation	0	0–127 Index 0 > 360 deg 128–180 CCW Gobo Rotation fast>slow 181–202 Stop 203–255 CW Gobo Rotation slow>fast
19	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

53 Channels (continued)

Ch	Function	Default	DMX values
20	Gobo1Wheel Shake	0	0–9 Stop 10–19 Shake R-L speed 1 20–29 Shake R-L speed 2 30–39 Shake R-L speed 3 40–49 Shake R-L speed 4 50–59 Shake R-L speed 5 60–69 Shake R-L speed 6 70–79 Shake R-L speed 7 80–89 Shake R-L speed 8 90–99 Shake R-L speed 9 100–109 Shake R-L speed 10 110–126 Shake R-L speed 11 127–138 Stop 139–148 Shake L-R speed 1 149–158 Shake L-R speed 2 159–168 Shake L-R speed 3 169–178 Shake L-R speed 4 179–188 Shake L-R speed 5 189–198 Shake L-R speed 6 199–208 Shake L-R speed 7 209–218 Shake L-R speed 8 219–228 Shake L-R speed 9 229–238 Shake L-R speed 10 239–255 Shake L-R speed 11
21	Shaper Rot	127	0–126 -45deg > 0deg 127–128 0deg position 129–255 0deg > 45deg
22	Shaper Rot Fine	127	Fine byte of Shaper Rot
23	Blade1A	0	
24	Blade1A Fine	0	Fine byte of Blade1A
25	Blade1Rot	128	0–127 -30deg > 0deg 128–128 0deg position 129–255 0deg > 30deg
26	Blade1Rot Fine	128	Fine byte of Blade1Rot
27	Blade2A	0	
28	Blade2A Fine	0	Fine byte of Blade2A
29	Blade2Rot	128	0–127 -30deg > 0deg 128–128 0deg position 129–255 0deg > 30deg
30	Blade2Rot Fine	128	Fine byte of Blade2Rot
31	Blade3A	0	
32	Blade3A Fine	0	Fine byte of Blade3A
33	Blade3Rot	128	0–127 -30deg > 0deg 128–128 0deg position 129–255 0deg > 30deg
34	Blade3Rot Fine	128	Fine byte of Blade3Rot
35	Blade4A	0	
36	Blade4A Fine	0	Fine byte of Blade4A
37	Blade4Rot	128	0–127 -30deg > 0deg 128–128 0deg position 129–255 0deg > 30deg
38	Blade4Rot Fine	128	Fine byte of Blade4Rot
39	Shaper Macros	0	

53 Channels (continued)

Ch	Function	Default	DMX values
40	Animation System1Macro	0	0–9 No Function 10–15 Dynamove 1 16–21 Dynamove 2 22–27 Dynamove 3 28–33 Dynamove 4 34–39 Dynamove 5 40–45 Dynamove 6 46–51 Dynamove 7 52–57 Dynamove 8 58–63 Dynamove 9 64–69 Dynamove 10 70–75 Dynamove 11 76–81 Dynamove 12 82–87 Dynamove 13 88–93 Dynamove 14 94–99 Dynamove 15 100–101 Dynamove 16 102–103 Dynamove 17 104–105 Dynamove 18 106–107 Dynamove 19 108–109 Dynamove 20 110–111 Dynamove 21 112–113 Dynamove 22 114–115 Dynamove 23 116–117 Dynamove 24 118–119 Dynamove 25 120–121 Dynamove 26 122–123 Dynamove 27 124–125 Dynamove 28 126–127 Dynamove 29 128–129 Dynamove 30 130–131 Dynamove 31 132–133 Dynamove 32 134–255 Dynamove 33
41	Effect Speed	0	0–10 Default speed (1x) 11–50 1x > 5x 51–90 5x > 1x 91–159 Default speed (1x) 160–255 1x > 1/10x
42	Prism	0	0–9 Open (wheel slot 1) 10–49 Prism 1 (after lens) (wheel slot 3) 50–89 Prism 2 (after lens) (wheel slot 2) 90–129 Prisms 1+2 (aftern lens) 130–169 Prism 1 (before lens) (wheel slot 3) 170–209 Prism 2 (before lens) (wheel slot 2) 210–255 Prisms 1+2 (before lens)
43	Prism Rotation	0	0–9 Center 10–127 Left > Center 128–137 Center 138–255 Center > Right
44	Prism Rotation	0	0–127 Index 0deg > 360deg 128–180 CW Rotation fast>slow 181–202 Stop 203–255 CCW Rotation slow>fast
45	Prism Rotation	0	0–9 Center 10–127 Right > Center 128–137 Center 138–255 Center > Left

53 Channels (continued)

Ch	Function	Default	DMX values
46	Prism Rotation	0	0–127 Index 0deg > 360deg 128–180 CW Rotation fast>slow 181–202 Stop 203–255 CCW Rotation slow>fast
47	Dummy	0	
48	Frost1	0	0–9 Open 10–254 Min 255–255 Max
49	Focus	0	
50	Focus Fine	0	Fine byte of Focus
51	Zoom	0	
52	Control1	31	
53	Fixture Global Reset	0	0–9 No Function 10–75 P/T Reset 76–95 Head Motors Reset 96–115 Gobo Wheel Reset 116–135 Color Wheel Reset 136–155 CMY/CTO Reset 156–175 Framing System Reset 176–195 Prisms Reset 196–215 Smooth/Frost Reset 216–239 Focus/Zoom Reset 240–255 Global Reset