DTS Lighting

# Synergy 5 Spot



| | |
|---|---|
| Manufacturer | **DTS Lighting** |
| Type | **Moving head** |
| DMX modes | **1** |
| DMX footprint | **37 channels** |
| Beam angle | **4.6-43°** |
| Pan range | **540°** |
| Tilt range | **240°** |
| Size (W × H × D) | **311 × 510 × 241 mm** |
| GDTF fixture type | **A26F85EE-F232-4320-B3EA-290…** |

## 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

37 Channels — 37 ch

## 37 Channels

37 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<br>10–25 Standard Movement<br>26–127 Vector Mode fast>slow<br>128–247 DMX React fast>slow<br>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<br>10–19 Open<br>20–29 Closed<br>30–118 Min Strobe<br>119–119 Max Strobe<br>120–148 Min PulseUp<br>149–149 Max PulseUp<br>150–178 Min PulseDown<br>179–179 Max PulseDown<br>180–199 Random Strobe<br>200–209 Gobo/ColWheel in BO on Movement<br>210–222 P/T in BO on Movement<br>223–224 Frost/Prism in BO on Insertion<br>225–226 Zoom in BO on Movement<br>227–229 ALL in BO on Move/Ins<br>230–255 Open |
| 10 | Color Wheel | 0 | 0–9 Open (wheel slot 1)<br>10–44 Deep Red (wheel slot 2)<br>45–49 Color 1-2<br>50–79 Deep Blue (wheel slot 3)<br>80–89 Color 2-3<br>90–114 Deep Green (wheel slot 4)<br>115–127 Color 3-4<br>128–129 Stop<br>130–137 Amber (wheel slot 5)<br>138–149 CCW Rotation slow>fast<br>150–169 Color 4-5<br>170–184 Lavender (wheel slot 6)<br>185–209 Color 5-6<br>210–219 Higher CRI (wheel slot 7)<br>220–255 Color 6-0 |
| 11 | Color1Mode | 0 | 0–63 Full Color<br>64–127 Half Color<br>128–191 Proportional Color<br>192–255 Rainbow |
| 12 | Cyan | 0 | |
| 13 | Magenta | 0 | |
| 14 | Yellow | 0 | |
| 15 | C TO | 0 | 0–0 7000 K<br>1–254 CTO 7000K > 3000K<br>255–255 CTO 3000 K |

## 37 Channels (continued)

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

## 37 Channels (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **20** | Gobo1Wheel Shake | 0 | 0–9 Stop<br>10–19 Shake R-L speed 1<br>20–29 Shake R-L speed 2<br>30–39 Shake R-L speed 3<br>40–49 Shake R-L speed 4<br>50–59 Shake R-L speed 5<br>60–69 Shake R-L speed 6<br>70–79 Shake R-L speed 7<br>80–89 Shake R-L speed 8<br>90–99 Shake R-L speed 9<br>100–109 Shake R-L speed 10<br>110–126 Shake R-L speed 11<br>127–138 Stop<br>139–148 Shake L-R speed 1<br>149–158 Shake L-R speed 2<br>159–168 Shake L-R speed 3<br>169–178 Shake L-R speed 4<br>179–188 Shake L-R speed 5<br>189–198 Shake L-R speed 6<br>199–208 Shake L-R speed 7<br>209–218 Shake L-R speed 8<br>219–228 Shake L-R speed 9<br>229–238 Shake L-R speed 10<br>239–255 Shake L-R speed 11 |
| **21** | Gobo 2 | 0 | 0–9 Open (wheel slot 1)<br>10–17 Fix Gobo 0-1<br>18–27 Gobo 1 (wheel slot 2)<br>28–36 Fix Gobo 1-2<br>37–45 Gobo 2 (wheel slot 3)<br>46–54 Fix Gobo 2-3<br>55–63 Gobo 3 (wheel slot 4)<br>64–72 Fix Gobo 3-4<br>73–81 Gobo 4 (wheel slot 5)<br>82–90 Fix Gobo 4-5<br>91–99 Gobo 5 (wheel slot 6)<br>100–109 Fix Gobo 5-6<br>110–117 Gobo 6 (wheel slot 7)<br>118–127 Fix Gobo 6-7<br>128–135 Gobo 7 (wheel slot 8)<br>136–137 Fix Gobo 7-8<br>138–145 CCW Spin slow>fast<br>146–153 Gobo 8 (wheel slot 9)<br>154–164 Fix Gobo 8-9<br>165–171 Gobo 9 (wheel slot 10)<br>172–182 Fix Gobo 9-10<br>183–189 Gobo 10 (wheel slot 11)<br>190–200 Fix Gobo 10-11<br>201–207 Gobo 11 (wheel slot 12)<br>208–218 Fix Gobo 11-12<br>219–225 Gobo 12 (wheel slot 13)<br>226–237 Fix Gobo 12-13<br>238–243 Gobo 13 (wheel slot 14)<br>244–255 Fix Gobo 13-0 |
| **22** | Gobo2Select Spin | 0 | 0–63 Full<br>64–127 Half<br>128–191 Proportional<br>192–255 Spin |

## 37 Channels (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **23** | Gobo2Wheel Shake | 0 | 0–9 Stop<br>10–16 Shake R-L speed 1<br>17–23 Shake R-L speed 2<br>24–30 Shake R-L speed 3<br>31–37 Shake R-L speed 4<br>38–44 Shake R-L speed 5<br>45–51 Shake R-L speed 6<br>52–58 Shake R-L speed 7<br>59–65 Shake R-L speed 8<br>66–72 Shake R-L speed 9<br>73–79 Shake R-L speed 10<br>80–86 Shake R-L speed 11<br>87–93 Shake R-L speed 12<br>94–100 Shake R-L speed 13<br>101–107 Shake R-L speed 14<br>108–114 Shake R-L speed 15<br>115–126 Shake R-L speed 16<br>127–138 Stop<br>139–145 Shake L-R speed 1<br>146–152 Shake L-R speed 2<br>153–159 Shake L-R speed 3<br>160–166 Shake L-R speed 4<br>167–173 Shake L-R speed 5<br>174–180 Shake L-R speed 6<br>181–187 Shake L-R speed 7<br>188–194 Shake L-R speed 8<br>195–201 Shake L-R speed 9<br>202–208 Shake L-R speed 10<br>209–215 Shake L-R speed 11<br>216–222 Shake L-R speed 12<br>223–229 Shake L-R speed 13<br>230–236 Shake L-R speed 14<br>237–243 Shake L-R speed 15<br>244–255 Shake L-R speed 16 |

## 37 Channels (continued)

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

## 37 Channels (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **30** | Prism Rotation | 0 | 0–127 Index 0deg > 360deg<br>128–180 CW Rotation fast>slow<br>181–202 Stop<br>203–255 CCW Rotation slow>fast |
| **31** | Frost1 | 0 | 0–9 Open<br>10–254 Min<br>255–255 Max |
| **32** | Focus2 | 0 | 0–127 AutoFocus OFF<br>128–191 AutoFocus ON (FixGobo priority)<br>192–255 AutoFocus ON (RotGobo priority) |
| **33** | Focus | 0 | |
| **34** | Focus Fine | 0 | Fine byte of Focus |
| **35** | Zoom | 0 | |
| **36** | Control1 | 31 | |
| **37** | Fixture Global Reset | 0 | 0–9 No Function<br>10–75 P/T Reset<br>76–95 Head Motors Reset<br>96–115 Gobo Wheel Reset<br>116–135 Color Wheel Reset<br>136–175 CMY/CTO Reset<br>176–195 Prisms Reset<br>196–215 Smooth/Frost Reset<br>216–239 Focus/Zoom Reset<br>240–255 Global Reset |