Terbly

# S620H IP-YL



| | |
|---|---|
| Manufacturer | **Terbly** |
| Type | **Moving head** |
| DMX modes | **2** |
| DMX footprint | **20, 28 channels** |
| Beam angle | **2.3-42°** |
| Pan range | **540°** |
| Tilt range | **250°** |
| Size (W × H × D) | **284 × 511 × 246 mm** |
| GDTF fixture type | **8A852C97-EDE0-464E-9BA9-EC…** |

## Controls

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

## Safety-relevant functions

Lamp on and off · Fixture reset · Service functions

## DMX modes

| | |
|---|---|
| Standard | 20 ch |
| Extended | 28 ch |

## Standard

20 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 | 0–224 max<br>225–225 min<br>226–235 BO by Movement<br>236–255 BO by All Wheel |
| 6 | Shutter / Strobe | 63 | 0–31 Closed<br>32–63 Open<br>64–94 min Strobe<br>95–95 max Strobe<br>96–127 Open 2<br>128–158 min Pulse<br>159–159 max Pulse<br>160–191 Open 3<br>192–222 Random · min Rnd 1–9.71 Hz<br>223–223 Random · max Rnd 10 Hz<br>224–255 Open 4 |
| 7 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 8 | Zoom | 128 | 0–127 narrow<br>128–254 normal<br>255–255 wide |
| 9 | Focus | 128 | |
| 10 | Focus1Distance | 0 | 0–50 Safe<br>51–150 15m<br>151–255 20m |
| 11 | Focus1Adjust | 128 | |
| 12 | Color Wheel | 0 | 0–10 Open (wheel slot 1)<br>11–18 Red (wheel slot 2)<br>19–26 Blue (wheel slot 3)<br>27–34 Green (wheel slot 4)<br>35–42 Yellow (wheel slot 5)<br>43–50 Magenta (wheel slot 6)<br>51–58 Orange (wheel slot 7)<br>59–66 Pink (wheel slot 8)<br>67–74 Kelly Green (wheel slot 9)<br>75–82 Cyan (wheel slot 10)<br>83–90 Amber (wheel slot 11)<br>91–98 Light Yellow (wheel slot 12)<br>99–106 CTB (wheel slot 13)<br>107–114 CTO (wheel slot 14)<br>115–127 UV (wheel slot 15)<br>128–128 >>><br>129–188 >><br>189–189 ><br>190–193 Stop<br>194–194 <<br>195–254 <<<br>255–255 <<< |

## Standard (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **13** | Gobo | 0 | 0–10 Beam mode(Open) (wheel slot 1)<br>11–21 Spot mode(Open) (wheel slot 1)<br>22–31 RG1 (wheel slot 2)<br>32–41 RG2 (wheel slot 3)<br>42–51 RG3 (wheel slot 4)<br>52–61 RG4 (wheel slot 5)<br>62–71 RG5 (wheel slot 6)<br>72–81 RG6 (wheel slot 7)<br>82–91 RG7 (wheel slot 8)<br>92–101 RG8 (wheel slot 9)<br>102–112 RG1 Shake (wheel slot 2)<br>113–123 RG2 Shake (wheel slot 3)<br>124–134 RG3 Shake (wheel slot 4)<br>135–145 RG4 Shake (wheel slot 5)<br>146–156 RG5 Shake (wheel slot 6)<br>157–167 RG6 Shake (wheel slot 7)<br>168–178 RG7 Shake (wheel slot 8)<br>179–189 RG8 Shake (wheel slot 9)<br>190–190 >>><br>191–220 >><br>221–221 ><br>222–223 Stop<br>224–224 <<br>225–254 <<<br>255–255 <<< |
| **14** | Gobo Rotation | 0 | 0–126 zero<br>127–127 max Index<br>128–128 >>><br>129–188 >><br>189–189 ><br>190–193 Stop<br>194–194 <<br>195–254 <<<br>255–255 <<< |

## Standard (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **15** | Gobo 2 | 0 | 0–7 Open (wheel slot 1)<br>8–14 FG1 (wheel slot 2)<br>15–21 FG2 (wheel slot 3)<br>22–28 FG3 (wheel slot 4)<br>29–35 FG4 (wheel slot 5)<br>36–42 FG5 (wheel slot 6)<br>43–49 FG6 (wheel slot 7)<br>50–56 FG7 (wheel slot 8)<br>57–63 FG8 (wheel slot 9)<br>64–70 FG9 (wheel slot 10)<br>71–77 FG10 (wheel slot 11)<br>78–84 FG11 (wheel slot 12)<br>85–91 FG12 (wheel slot 13)<br>92–98 FG13 (wheel slot 14)<br>99–105 FG14 (wheel slot 15)<br>106–111 FG1 Shake (wheel slot 2)<br>112–117 FG2 Shake (wheel slot 3)<br>118–123 FG3 Shake (wheel slot 4)<br>124–129 FG4 Shake (wheel slot 5)<br>130–135 FG5 Shake (wheel slot 6)<br>136–141 FG6 Shake (wheel slot 7)<br>142–147 FG7 Shake (wheel slot 8)<br>148–153 FG8 Shake (wheel slot 9)<br>154–159 FG9 Shake (wheel slot 10)<br>160–165 FG10 Shake (wheel slot 11)<br>166–171 FG11 Shake (wheel slot 12)<br>172–177 FG12 Shake (wheel slot 13)<br>178–183 FG13 Shake (wheel slot 14)<br>184–189 FG14 Shake (wheel slot 15)<br>190–190 >>><br>191–220 >><br>221–221 ><br>222–223 Stop<br>224–224 <<br>225–254 <<<br>255–255 <<< |
| **16** | Prism | 0 | 0–31 Open (wheel slot 1)<br>32–63 Prism 1 (wheel slot 2)<br>64–95 Prism 2 (wheel slot 3)<br>96–127 Prism 1+2<br>128–135 Macro 1<br>136–143 Macro 2<br>144–151 Macro 3<br>152–159 Macro 4<br>160–167 Macro 5<br>168–175 Macro 6<br>176–183 Macro 7<br>184–191 Macro 8<br>192–199 Macro 9<br>200–207 Macro 10<br>208–215 Macro 11<br>216–223 Macro 12<br>224–231 Macro 13<br>232–239 Macro 14<br>240–247 Macro 15<br>248–255 Macro 16 |

### Standard (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **17** | Prism Rotation | 0 | 0–126 zero<br>127–127 max Index<br>128–128 >>><br>129–188 >><br>189–189 ><br>190–193 Stop<br>194–194 <<br>195–254 <<<br>255–255 <<< |
| **18** | Prism Rotation | 0 | 0–126 zero<br>127–127 max Index<br>128–128 >>><br>129–188 >><br>189–189 ><br>190–193 Stop<br>194–194 <<br>195–254 <<<br>255–255 <<< |
| **19** | Frost1 | 0 | 0–254 Open<br>255–255 Frost |
| **20** | Control1 | 0 | 0–19 Normal<br>20–29 Col any pos<br>30–39 Col/Gobo any pos<br>40–49 Lamp On<br>50–59 Lamp Off<br>60–66 Lamp power 330W<br>67–79 Lamp power 420W<br>80–84 Reset All<br>85–87 Reset P/T<br>88–90 Reset Colors<br>91–93 Reset Gobos<br>94–96 Reset Shutter<br>97–99 Reset Others<br>100–119 Internal pro 1<br>120–139 Internal pro 2<br>140–159 Internal pro 3<br>160–179 Internal pro 4<br>180–199 Internal pro 5<br>200–219 Internal pro 6<br>220–239 Internal pro 7<br>244–246 Home Position Before Power Off<br>247–249 Home Position Off<br>250–251 Display Off<br>252–255 Display On |

## Extended

28 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 | 0–224 max<br>225–225 min<br>226–235 BO by Movement<br>236–255 BO by All Wheel |

## Extended (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **6** | Shutter / Strobe | 63 | 0–31 Closed<br>32–63 Open<br>64–94 min Strobe<br>95–95 max Strobe<br>96–127 Open 2<br>128–158 min Pulse<br>159–159 max Pulse<br>160–191 Open 3<br>192–222 Random · min Rnd 1–9.71 Hz<br>223–223 Random · max Rnd 10 Hz<br>224–255 Open 4 |
| **7** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **8** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **9** | Zoom | 128 | 0–127 narrow<br>128–254 normal<br>255–255 wide |
| **10** | Zoom Fine | 128 | Fine byte of Zoom |
| **11** | Focus | 128 | |
| **12** | Focus Fine | 128 | Fine byte of Focus |
| **13** | Focus1Distance | 0 | 0–50 Safe<br>51–150 15m<br>151–255 20m |
| **14** | Focus1Adjust | 128 | |
| **15** | Color Wheel | 0 | 0–7 Open (wheel slot 1)<br>8–16 Red (wheel slot 2)<br>17–24 Blue (wheel slot 3)<br>25–33 Green (wheel slot 4)<br>34–41 Yellow (wheel slot 5)<br>42–50 Magenta (wheel slot 6)<br>51–58 Orange (wheel slot 7)<br>59–67 Pink (wheel slot 8)<br>68–75 Kelly Green (wheel slot 9)<br>76–84 Cyan (wheel slot 10)<br>85–92 Amber (wheel slot 11)<br>93–101 Light Yellow (wheel slot 12)<br>102–109 CTB (wheel slot 13)<br>110–118 CTO (wheel slot 14)<br>119–127 UV (wheel slot 15)<br>128–128 >>><br>129–188 >><br>189–189 ><br>190–193 Stop<br>194–194 <<br>195–254 <<<br>255–255 <<< |
| **16** | Color Wheel Fine | 0 | Fine byte of Color Wheel |

## Extended (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **17** | Gobo | 0 | 0–10 Beam mode(Open) (wheel slot 1)<br>11–21 Spot mode(Open) (wheel slot 1)<br>22–31 RG1 (wheel slot 2)<br>32–41 RG2 (wheel slot 3)<br>42–51 RG3 (wheel slot 4)<br>52–61 RG4 (wheel slot 5)<br>62–71 RG5 (wheel slot 6)<br>72–81 RG6 (wheel slot 7)<br>82–91 RG7 (wheel slot 8)<br>92–101 RG8 (wheel slot 9)<br>102–112 RG1 Shake (wheel slot 2)<br>113–123 RG2 Shake (wheel slot 3)<br>124–134 RG3 Shake (wheel slot 4)<br>135–145 RG4 Shake (wheel slot 5)<br>146–156 RG5 Shake (wheel slot 6)<br>157–167 RG6 Shake (wheel slot 7)<br>168–178 RG7 Shake (wheel slot 8)<br>179–189 RG8 Shake (wheel slot 9)<br>190–190 >>><br>191–220 >><br>221–221 ><br>222–223 Stop<br>224–224 <<br>225–254 <<<br>255–255 <<< |
| **18** | Gobo Rotation | 0 | 0–126 zero<br>127–127 max Index<br>128–128 >>><br>129–188 >><br>189–189 ><br>190–193 Stop<br>194–194 <<br>195–254 <<<br>255–255 <<< |
| **19** | Gobo Rotation Fine | 0 | Fine byte of Gobo Rotation |

## Extended (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **20** | Gobo 2 | 0 | 0–7 Open (wheel slot 1)<br>8–14 FG1 (wheel slot 2)<br>15–21 FG2 (wheel slot 3)<br>22–28 FG3 (wheel slot 4)<br>29–35 FG4 (wheel slot 5)<br>36–42 FG5 (wheel slot 6)<br>43–49 FG6 (wheel slot 7)<br>50–56 FG7 (wheel slot 8)<br>57–63 FG8 (wheel slot 9)<br>64–70 FG9 (wheel slot 10)<br>71–77 FG10 (wheel slot 11)<br>78–84 FG11 (wheel slot 12)<br>85–91 FG12 (wheel slot 13)<br>92–98 FG13 (wheel slot 14)<br>99–105 FG14 (wheel slot 15)<br>106–111 FG1 Shake (wheel slot 2)<br>112–117 FG2 Shake (wheel slot 3)<br>118–123 FG3 Shake (wheel slot 4)<br>124–129 FG4 Shake (wheel slot 5)<br>130–135 FG5 Shake (wheel slot 6)<br>136–141 FG6 Shake (wheel slot 7)<br>142–147 FG7 Shake (wheel slot 8)<br>148–153 FG8 Shake (wheel slot 9)<br>154–159 FG9 Shake (wheel slot 10)<br>160–165 FG10 Shake (wheel slot 11)<br>166–171 FG11 Shake (wheel slot 12)<br>172–177 FG12 Shake (wheel slot 13)<br>178–183 FG13 Shake (wheel slot 14)<br>184–189 FG14 Shake (wheel slot 15)<br>190–190 >>><br>191–220 >><br>221–221 ><br>222–223 Stop<br>224–224 <<br>225–254 <<<br>255–255 <<< |
| **21** | Gobo 2 Fine | 0 | Fine byte of Gobo 2 |
| **22** | Prism | 0 | 0–31 Open (wheel slot 1)<br>32–63 Prism 1 (wheel slot 2)<br>64–95 Prism 2 (wheel slot 3)<br>96–127 Prism 1+2<br>128–135 Macro 1<br>136–143 Macro 2<br>144–151 Macro 3<br>152–159 Macro 4<br>160–167 Macro 5<br>168–175 Macro 6<br>176–183 Macro 7<br>184–191 Macro 8<br>192–199 Macro 9<br>200–207 Macro 10<br>208–215 Macro 11<br>216–223 Macro 12<br>224–231 Macro 13<br>232–239 Macro 14<br>240–247 Macro 15<br>248–255 Macro 16 |

## Extended (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **23** | Prism Rotation | 0 | 0–126 zero<br>127–127 max Index<br>128–128 >>><br>129–188 >><br>189–189 ><br>190–193 Stop<br>194–194 <<br>195–254 <<<br>255–255 <<< |
| **24** | Prism Rotation Fine | 0 | Fine byte of Prism Rotation |
| **25** | Prism Rotation | 0 | 0–126 zero<br>127–127 max Index<br>128–128 >>><br>129–188 >><br>189–189 ><br>190–193 Stop<br>194–194 <<br>195–254 <<<br>255–255 <<< |
| **26** | Prism Rotation Fine | 0 | Fine byte of Prism Rotation |
| **27** | Frost1 | 0 | 0–254 Open<br>255–255 Frost |
| **28** | Control1 | 0 | 0–19 Normal<br>20–29 Col any pos<br>30–39 Col/Gobo any pos<br>40–49 Lamp On<br>50–59 Lamp Off<br>60–66 Lamp power 330W<br>67–79 Lamp power 420W<br>80–84 Reset All<br>85–87 Reset P/T<br>88–90 Reset Colors<br>91–93 Reset Gobos<br>94–96 Reset Shutter<br>97–99 Reset Others<br>100–119 Internal pro 1<br>120–139 Internal pro 2<br>140–159 Internal pro 3<br>160–179 Internal pro 4<br>180–199 Internal pro 5<br>200–219 Internal pro 6<br>220–239 Internal pro 7<br>244–246 Home Position Before Power Off<br>247–249 Home Position Off<br>250–251 Display Off<br>252–255 Display On |