Terbly

# G12 Hybrid



| | |
|---|---|
| Manufacturer | **Terbly** |
| Type | **Moving head** |
| DMX modes | **2** |
| DMX footprint | **26, 37 channels** |
| Beam angle | **2.9-25°** |
| Pan range | **540°** |
| Tilt range | **270°** |
| Size (W × H × D) | **334 × 539 × 308 mm** |
| GDTF fixture type | **AE3C90BF-9998-45F2-8DFA-CE…** |

## Controls

Focus · Frost · 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

| | |
|---|---|
| Standard | 26 ch |
| Extended | 37 ch |

## Standard

26 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 · maxRnd 10 Hz<br>224–255 Open 4 |
| 7 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 8 | Zoom | 127 | 0–126 narrow<br>127–254 normal<br>255–255 wide |
| 9 | Focus | 127 | |
| 10 | Focus1Distance | 0 | 0–50 Safe<br>51–150 15m<br>151–255 20m |
| 11 | Focus1Adjust | 0 | |
| 12 | Color Wheel | 0 | 0–7 Open (wheel slot 1)<br>8–19 Red (wheel slot 2)<br>20–31 Green (wheel slot 3)<br>32–43 Blue (wheel slot 4)<br>44–55 Yellow (wheel slot 5)<br>56–67 Magenta (wheel slot 6)<br>68–79 Orange (wheel slot 7)<br>80–91 Azury (wheel slot 8)<br>92–103 CTO (wheel slot 9)<br>104–115 CTB (wheel slot 10)<br>116–127 UV (wheel slot 11)<br>128–128 >>><br>129–188 >><br>189–189 ><br>190–193 Stop<br>194–194 <<br>195–254 <<<br>255–255 <<< |
| 13 | Cyan | 0 | |
| 14 | Magenta | 0 | |
| 15 | Yellow | 0 | |
| 16 | C TO | 0 | 0–254 6500K<br>255–255 2700K |

## Standard (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **17** | Color Macro1 | 0 | 0–31 Safe<br>32–39 Macro 1<br>40–47 Macro 2<br>48–55 Macro 3<br>56–63 Macro 4<br>64–71 Macro 5<br>72–79 Macro 6<br>80–87 Macro 7<br>88–95 Macro 8<br>96–103 Macro 9<br>104–111 Macro 10<br>112–119 Macro 11<br>120–127 Macro 12<br>128–135 Macro 13<br>136–143 Macro 14<br>144–151 Macro 15<br>152–159 Macro 16<br>160–167 Macro 17<br>168–175 Macro 18<br>176–183 Macro 19<br>184–191 Macro 20<br>192–199 Macro 21<br>200–207 Macro 22<br>208–215 Macro 23<br>216–223 Macro 24<br>224–231 Macro 25<br>232–239 Macro 26<br>240–247 Macro 27<br>248–255 Random CMY |
| **18** | Color Mix MSpeed | 0 | |
| **19** | Gobo | 0 | 0–10 Beam mode (wheel slot 1)<br>11–21 Spot mode (wheel slot 2)<br>22–31 RG1 (wheel slot 3)<br>32–41 RG2 (wheel slot 4)<br>42–51 RG3 (wheel slot 5)<br>52–61 RG4 (wheel slot 6)<br>62–71 RG5 (wheel slot 7)<br>72–81 RG6 (wheel slot 8)<br>82–91 RG7 (wheel slot 9)<br>92–101 RG8 (wheel slot 10)<br>102–112 RG1 Shake (wheel slot 3)<br>113–123 RG2 Shake (wheel slot 4)<br>124–134 RG3 Shake (wheel slot 5)<br>135–145 RG4 Shake (wheel slot 6)<br>146–156 RG5 Shake (wheel slot 7)<br>157–167 RG6 Shake (wheel slot 8)<br>168–178 RG7 Shake (wheel slot 9)<br>179–189 RG8 Shake (wheel slot 10)<br>190–190 >>><br>191–220 >><br>221–221 ><br>222–223 Stop<br>224–224 <<br>225–254 <<<br>255–255 <<< |

## Standard (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **20** | 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 <<< |
| **21** | Gobo 2 | 0 | 0–9 Open (wheel slot 1)<br>10–17 FG1 (wheel slot 2)<br>18–25 FG2 (wheel slot 3)<br>26–33 FG3 (wheel slot 4)<br>34–41 FG4 (wheel slot 5)<br>42–49 FG5 (wheel slot 6)<br>50–57 FG6 (wheel slot 7)<br>58–65 Anim 1<br>66–73 Anim 2<br>74–81 Anim 3<br>82–89 Anim 4<br>90–97 Anim 5<br>98–105 Anim 6<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>136–147 FG6 Shake (wheel slot 7)<br>148–154 Anim 1 Shake<br>155–161 Anim 2 Shake<br>162–168 Anim 3 Shake<br>169–175 Anim 4 Shake<br>176–182 Anim 5 Shake<br>183–189 Anim 6 Shake<br>190–190 >>><br>191–220 >><br>221–221 ><br>222–223 Stop<br>224–224 <<br>225–254 <<<br>255–255 <<< |
| **22** | Animation Wheel1Pos Rotate | 0 | 0–7 Open (wheel slot 1)<br>8–254 Anim speed slow (wheel slot 2)<br>255–255 Anim speed fast (wheel slot 3) |

### Standard (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **23** | Prism | 0 | 0–31 Open (wheel slot 1)<br>32–79 8 Prism (wheel slot 2)<br>80–127 4 Linear Prism (wheel slot 3)<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 |
| **24** | 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 <<< |
| **25** | Frost1 | 0 | 0–127 Open<br>128–255 Frost |
| **26** | Control1 | 0 | 0–19 Normal<br>20–29 Col any pos<br>30–39 Col/Gobo any pos<br>40–59 Lamp ON<br>60–79 Lamp Off<br>80–84 Reset All<br>85–87 Reset PT<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>240–255 Music Control |

## Extended

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 |

## Extended (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **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 · maxRnd 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 | 127 | 0–126 narrow<br>127–254 normal<br>255–255 wide |
| **10** | Zoom Fine | 0 | Fine byte of Zoom |
| **11** | Focus | 127 | |
| **12** | Focus Fine | 0 | Fine byte of Focus |
| **13** | Focus1Distance | 0 | 0–50 Safe<br>51–150 15m<br>151–255 20m |
| **14** | Focus1Adjust | 0 | |
| **15** | Color Wheel | 0 | 0–7 Open (wheel slot 1)<br>8–19 Red (wheel slot 2)<br>20–31 Green (wheel slot 3)<br>32–43 Blue (wheel slot 4)<br>44–55 Yellow (wheel slot 5)<br>56–67 Magenta (wheel slot 6)<br>68–79 Orange (wheel slot 7)<br>80–91 Azury (wheel slot 8)<br>92–103 CTO (wheel slot 9)<br>104–115 CTB (wheel slot 10)<br>116–127 UV (wheel slot 11)<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 |
| **17** | Cyan | 0 | |
| **18** | Cyan Fine | 0 | Fine byte of Cyan |
| **19** | Magenta | 0 | |
| **20** | Magenta Fine | 0 | Fine byte of Magenta |
| **21** | Yellow | 0 | |
| **22** | Yellow Fine | 0 | Fine byte of Yellow |
| **23** | C TO | 0 | 0–254 6500K<br>255–255 2700K |

## Extended (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **24** | C TO Fine | 0 | Fine byte of C TO |
| **25** | Color Macro1 | 0 | 0–31 Safe<br>32–39 Macro 1<br>40–47 Macro 2<br>48–55 Macro 3<br>56–63 Macro 4<br>64–71 Macro 5<br>72–79 Macro 6<br>80–87 Macro 7<br>88–95 Macro 8<br>96–103 Macro 9<br>104–111 Macro 10<br>112–119 Macro 11<br>120–127 Macro 12<br>128–135 Macro 13<br>136–143 Macro 14<br>144–151 Macro 15<br>152–159 Macro 16<br>160–167 Macro 17<br>168–175 Macro 18<br>176–183 Macro 19<br>184–191 Macro 20<br>192–199 Macro 21<br>200–207 Macro 22<br>208–215 Macro 23<br>216–223 Macro 24<br>224–231 Macro 25<br>232–239 Macro 26<br>240–247 Macro 27<br>248–255 Random CMY |
| **26** | Color Mix MSpeed | 0 | |
| **27** | Gobo | 0 | 0–10 Beam mode (wheel slot 1)<br>11–21 Spot mode (wheel slot 2)<br>22–31 RG1 (wheel slot 3)<br>32–41 RG2 (wheel slot 4)<br>42–51 RG3 (wheel slot 5)<br>52–61 RG4 (wheel slot 6)<br>62–71 RG5 (wheel slot 7)<br>72–81 RG6 (wheel slot 8)<br>82–91 RG7 (wheel slot 9)<br>92–101 RG8 (wheel slot 10)<br>102–112 RG1 Shake (wheel slot 3)<br>113–123 RG2 Shake (wheel slot 4)<br>124–134 RG3 Shake (wheel slot 5)<br>135–145 RG4 Shake (wheel slot 6)<br>146–156 RG5 Shake (wheel slot 7)<br>157–167 RG6 Shake (wheel slot 8)<br>168–178 RG7 Shake (wheel slot 9)<br>179–189 RG8 Shake (wheel slot 10)<br>190–190 >>><br>191–220 >><br>221–221 ><br>222–223 Stop<br>224–224 <<br>225–254 <<<br>255–255 <<< |

## Extended (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **28** | 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 <<< |
| **29** | Gobo Rotation Fine | 0 | Fine byte of Gobo Rotation |
| **30** | Gobo 2 | 0 | 0–9 Open (wheel slot 1)<br>10–17 FG1 (wheel slot 2)<br>18–25 FG2 (wheel slot 3)<br>26–33 FG3 (wheel slot 4)<br>34–41 FG4 (wheel slot 5)<br>42–49 FG5 (wheel slot 6)<br>50–57 FG6 (wheel slot 7)<br>58–65 Anim 1<br>66–73 Anim 2<br>74–81 Anim 3<br>82–89 Anim 4<br>90–97 Anim 5<br>98–105 Anim 6<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>136–147 FG6 Shake (wheel slot 7)<br>148–154 Anim 1 Shake<br>155–161 Anim 2 Shake<br>162–168 Anim 3 Shake<br>169–175 Anim 4 Shake<br>176–182 Anim 5 Shake<br>183–189 Anim 6 Shake<br>190–190 >>><br>191–220 >><br>221–221 ><br>222–223 Stop<br>224–224 <<br>225–254 <<<br>255–255 <<< |
| **31** | Gobo 2 Fine | 0 | Fine byte of Gobo 2 |
| **32** | Animation Wheel1 | 0 | 0–7 Open (wheel slot 1)<br>8–254 Anim speed slow (wheel slot 2)<br>255–255 Anim speed fast (wheel slot 3) |

## Extended (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **33** | Prism | 0 | 0–31 Open (wheel slot 1)<br>32–79 8 Prism (wheel slot 2)<br>80–127 4 Linear Prism (wheel slot 3)<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 |
| **34** | 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 <<< |
| **35** | Prism Rotation Fine | 0 | Fine byte of Prism Rotation |
| **36** | Frost1 | 0 | 0–127 Open<br>128–255 Frost |
| **37** | Control1 | 0 | 0–19 Normal<br>20–29 Col any pos<br>30–39 Col/Gobo any pos<br>40–59 Lamp ON<br>60–79 Lamp Off<br>80–84 Reset All<br>85–87 Reset PT<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>240–255 Music Control |