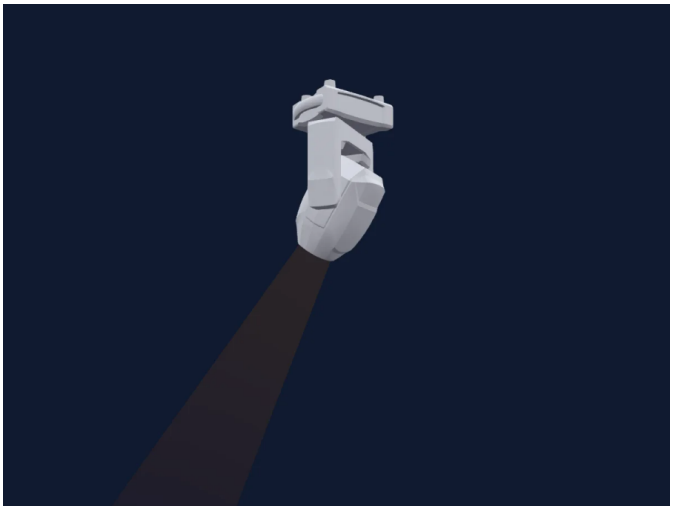
Starway

# Dino



| | |
|---|---|
| Manufacturer | **Starway** |
| Type | **Moving head** |
| DMX modes | **4** |
| DMX footprint | **14, 17, 20, 23 channels** |
| Beam angle | **12-22°** |
| Pan range | **540°** |
| Tilt range | **270°** |
| Size (W × H × D) | **230 × 280 × 180 mm** |
| GDTF fixture type | **F50CE00D-36F9-4E5E-A19E-F2C…** |

## Controls

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

## Safety-relevant functions

Fixture reset · Strobe · Built-in effect programmes

## DMX modes

| | |
|---|---|
| Basic 14CH | 14 ch |
| Standard 17CH | 17 ch |
| Extend 20CH | 20 ch |
| Extend 1 23CH | 23 ch |

## Basic 14CH

14 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Pan | 128 | |
| 2 | Tilt | 128 | |
| 3 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 4 | Shutter / Strobe | 50 | 0–31 Closed<br>32–63 Open<br>64–94 Strobe Min<br>95–95 Strobe Max<br>96–127 Open<br>128–158 Strobe Pulse Min<br>159–159 Strobe Pulse Max<br>160–191 Open<br>192–222 Random Strobe Min<br>223–223 Random Strobe Max<br>224–255 Shutter Open 2 |
| 5 | Color Wheel | 0 | 0–5 Color off (wheel slot 1)<br>6–11 Red (wheel slot 2)<br>12–17 Orange (wheel slot 3)<br>18–23 Yellow (wheel slot 4)<br>24–29 Green (wheel slot 5)<br>30–35 Dark Blue (wheel slot 6)<br>36–41 Purple (wheel slot 7)<br>42–47 Light Blue (wheel slot 8)<br>48–53 Magenta (wheel slot 9)<br>54–191 Rot Off<br>192–192 540 degree<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| 6 | Gobo | 0 | 0–5 Open/Hole (wheel slot 1)<br>6–20 Gobo 1 (wheel slot 2)<br>21–35 Gobo 2 (wheel slot 3)<br>36–50 Gobo 3 (wheel slot 4)<br>51–65 Gobo 4 (wheel slot 5)<br>66–80 Gobo 5 (wheel slot 6)<br>81–95 Gobo 6 (wheel slot 7)<br>96–110 Gobo 1 shake (wheel slot 2)<br>111–125 Gobo 2 shake (wheel slot 3)<br>126–140 Gobo 3 shake (wheel slot 4)<br>141–155 Gobo 4 shake (wheel slot 5)<br>156–170 Gobo 5 shake (wheel slot 6)<br>171–185 Gobo 6 shake (wheel slot 7)<br>186–192 Open (wheel slot 1)<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| 7 | Gobo Rotation | 0 | 0–126 Rot Off<br>127–127 540 degree<br>128–191 Fast to Slow CW<br>192–192 Stop<br>193–255 Slow to Fast CCW |

### Basic 14CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **8** | Gobo 2 | 0 | 0–5 Open/Hole (wheel slot 1)<br>6–20 Gobo 1 (wheel slot 2)<br>21–35 Gobo 2 (wheel slot 3)<br>36–50 Gobo 3 (wheel slot 4)<br>51–65 Gobo 4 (wheel slot 5)<br>66–80 Gobo 5 (wheel slot 6)<br>81–95 Gobo 6 (wheel slot 7)<br>96–110 Gobo 1 shake (wheel slot 2)<br>111–125 Gobo 2 shake (wheel slot 3)<br>126–140 Gobo 3 shake (wheel slot 4)<br>141–155 Gobo 4 shake (wheel slot 5)<br>156–170 Gobo 5 shake (wheel slot 6)<br>171–185 Gobo 6 shake (wheel slot 7)<br>186–192 Open (wheel slot 1)<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| **9** | Zoom | 128 | 0–127 narrow<br>128–254 middle<br>255–255 Width |
| **10** | Focus | 0 | |
| **11** | Prism | 0 | 0–5 Prism off (open) (wheel slot 1)<br>6–127 Prism 1 Linear (wheel slot 2)<br>128–255 Prism 2 Circle (wheel slot 3) |
| **12** | Prism Rotation | 0 | 0–126 Rot Off<br>127–127 540 degree<br>128–191 Fast to Slow CW<br>192–192 Stop<br>193–255 Slow to Fast CCW |
| **13** | Frost1 | 0 | |
| **14** | Control1 | 0 | 0–5 no function<br>6–15 Blackout while Moving on (Hold 3s)<br>16–25 Blackout while Moving off (Hold 3s)<br>26–35 Invert Pan on (Hold 3s)<br>36–45 Invert Pan off (Hold 3s)<br>46–55 Invert Tilt on (Hold 3s)<br>56–65 Invert Tilt off (Hold 3s)<br>66–75 Fan Speed Set Auto (Hold 3s)<br>76–85 Fan Speed Set Low (Hold 3s)<br>86–95 Fan Speed Set High (Hold 3s)<br>96–205 no function<br>206–215 Reset Pan / Tilt (Hold 3s)<br>216–225 Reset Head only (Hold 3s)<br>226–235 Reset All Functions (Hold 3s)<br>236–245 Gobo change normal(Hold 3s)<br>246–255 Gobo change to any position(Hold 3s) |

## Standard 17CH

17 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** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **6** | Dimmer Fine | 0 | Fine byte of Dimmer |

## Standard 17CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **7** | Shutter / Strobe | 50 | 0–31 Closed<br>32–63 Open<br>64–94 Strobe Min<br>95–95 Strobe Max<br>96–127 Open<br>128–158 Strobe Pulse Min<br>159–159 Strobe Pulse Max<br>160–191 Open<br>192–222 Random Strobe Min<br>223–223 Random Strobe Max<br>224–255 Shutter Open 2 |
| **8** | Color Wheel | 0 | 0–5 Color off (wheel slot 1)<br>6–11 Red (wheel slot 2)<br>12–17 Orange (wheel slot 3)<br>18–23 Yellow (wheel slot 4)<br>24–29 Green (wheel slot 5)<br>30–35 Dark Blue (wheel slot 6)<br>36–41 Purple (wheel slot 7)<br>42–47 Light Blue (wheel slot 8)<br>48–53 Magenta (wheel slot 9)<br>54–191 Rot Off<br>192–192 540 degree<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| **9** | Gobo | 0 | 0–5 Open/Hole (wheel slot 1)<br>6–20 Gobo 1 (wheel slot 2)<br>21–35 Gobo 2 (wheel slot 3)<br>36–50 Gobo 3 (wheel slot 4)<br>51–65 Gobo 4 (wheel slot 5)<br>66–80 Gobo 5 (wheel slot 6)<br>81–95 Gobo 6 (wheel slot 7)<br>96–110 Gobo 1 shake (wheel slot 2)<br>111–125 Gobo 2 shake (wheel slot 3)<br>126–140 Gobo 3 shake (wheel slot 4)<br>141–155 Gobo 4 shake (wheel slot 5)<br>156–170 Gobo 5 shake (wheel slot 6)<br>171–185 Gobo 6 shake (wheel slot 7)<br>186–192 Open (wheel slot 1)<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| **10** | Gobo Rotation | 0 | 0–126 Rot Off<br>127–127 540 degree<br>128–191 Fast to Slow CW<br>192–192 Stop<br>193–255 Slow to Fast CCW |

### Standard 17CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **11** | Gobo 2 | 0 | 0–5 Open/Hole (wheel slot 1)<br>6–20 Gobo 1 (wheel slot 2)<br>21–35 Gobo 2 (wheel slot 3)<br>36–50 Gobo 3 (wheel slot 4)<br>51–65 Gobo 4 (wheel slot 5)<br>66–80 Gobo 5 (wheel slot 6)<br>81–95 Gobo 6 (wheel slot 7)<br>96–110 Gobo 1 shake (wheel slot 2)<br>111–125 Gobo 2 shake (wheel slot 3)<br>126–140 Gobo 3 shake (wheel slot 4)<br>141–155 Gobo 4 shake (wheel slot 5)<br>156–170 Gobo 5 shake (wheel slot 6)<br>171–185 Gobo 6 shake (wheel slot 7)<br>186–192 Open (wheel slot 1)<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| **12** | Zoom | 128 | 0–127 narrow<br>128–254 middle<br>255–255 Width |
| **13** | Focus | 0 | |
| **14** | Prism | 0 | 0–5 Prism off (open) (wheel slot 1)<br>6–127 Prism 1 Linear (wheel slot 2)<br>128–255 Prism 2 Circle (wheel slot 3) |
| **15** | Prism Rotation | 0 | 0–126 Rot Off<br>127–127 540 degree<br>128–191 Fast to Slow CW<br>192–192 Stop<br>193–255 Slow to Fast CCW |
| **16** | Frost1 | 0 | |
| **17** | Control1 | 0 | 0–5 no function<br>6–15 Blackout while Moving on (Hold 3s)<br>16–25 Blackout while Moving off (Hold 3s)<br>26–35 Invert Pan on (Hold 3s)<br>36–45 Invert Pan off (Hold 3s)<br>46–55 Invert Tilt on (Hold 3s)<br>56–65 Invert Tilt off (Hold 3s)<br>66–75 Fan Speed Set Auto (Hold 3s)<br>76–85 Fan Speed Set Low (Hold 3s)<br>86–95 Fan Speed Set High (Hold 3s)<br>96–205 no function<br>206–215 Reset Pan / Tilt (Hold 3s)<br>216–225 Reset Head only (Hold 3s)<br>226–235 Reset All Functions (Hold 3s)<br>236–245 Gobo change normal(Hold 3s)<br>246–255 Gobo change to any position(Hold 3s) |

## Extend 20CH

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 Effect Rate | 0 | |

## Extend 20CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **6** | Position Effect | 0 | 0–5 Off<br>6–40 PAN "small > big"<br>41–75 TILT "small > big"<br>76–110 PAN / TILT "small > big"<br>111–145 PAN / TILT (invers) "small > big"<br>146–180 Circle "small > big"<br>181–215 Circle (invers) "small > big"<br>216–255 Random "small > big"5 |
| **7** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **8** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **9** | Shutter / Strobe | 50 | 0–31 Closed<br>32–63 Open<br>64–94 Strobe Min<br>95–95 Strobe Max<br>96–127 Open<br>128–158 Strobe Pulse Min<br>159–159 Strobe Pulse Max<br>160–191 Open<br>192–222 Random Strobe Min<br>223–223 Random Strobe Max<br>224–255 Shutter Open 2 |
| **10** | Color Wheel | 0 | 0–5 Color off (wheel slot 1)<br>6–11 Red (wheel slot 2)<br>12–17 Orange (wheel slot 3)<br>18–23 Yellow (wheel slot 4)<br>24–29 Green (wheel slot 5)<br>30–35 Dark Blue (wheel slot 6)<br>36–41 Purple (wheel slot 7)<br>42–47 Light Blue (wheel slot 8)<br>48–53 Magenta (wheel slot 9)<br>54–191 Rot Off<br>192–192 540 degree<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| **11** | Gobo | 0 | 0–5 Open/Hole (wheel slot 1)<br>6–20 Gobo 1 (wheel slot 2)<br>21–35 Gobo 2 (wheel slot 3)<br>36–50 Gobo 3 (wheel slot 4)<br>51–65 Gobo 4 (wheel slot 5)<br>66–80 Gobo 5 (wheel slot 6)<br>81–95 Gobo 6 (wheel slot 7)<br>96–110 Gobo 1 shake (wheel slot 2)<br>111–125 Gobo 2 shake (wheel slot 3)<br>126–140 Gobo 3 shake (wheel slot 4)<br>141–155 Gobo 4 shake (wheel slot 5)<br>156–170 Gobo 5 shake (wheel slot 6)<br>171–185 Gobo 6 shake (wheel slot 7)<br>186–192 Open (wheel slot 1)<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| **12** | Gobo Rotation | 0 | 0–126 Rot Off<br>127–127 540 degree<br>128–191 Fast to Slow CW<br>192–192 Stop<br>193–255 Slow to Fast CCW |

### Extend 20CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **13** | Gobo 2 | 0 | 0–5 Open/Hole (wheel slot 1)<br>6–20 Gobo 1 (wheel slot 2)<br>21–35 Gobo 2 (wheel slot 3)<br>36–50 Gobo 3 (wheel slot 4)<br>51–65 Gobo 4 (wheel slot 5)<br>66–80 Gobo 5 (wheel slot 6)<br>81–95 Gobo 6 (wheel slot 7)<br>96–110 Gobo 1 shake (wheel slot 2)<br>111–125 Gobo 2 shake (wheel slot 3)<br>126–140 Gobo 3 shake (wheel slot 4)<br>141–155 Gobo 4 shake (wheel slot 5)<br>156–170 Gobo 5 shake (wheel slot 6)<br>171–185 Gobo 6 shake (wheel slot 7)<br>186–192 Open (wheel slot 1)<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| **14** | Zoom | 128 | 0–127 narrow<br>128–254 middle<br>255–255 Width |
| **15** | Focus | 0 | |
| **16** | Prism | 0 | 0–5 Prism off (open) (wheel slot 1)<br>6–127 Prism 1 Linear (wheel slot 2)<br>128–255 Prism 2 Circle (wheel slot 3) |
| **17** | Prism Rotation | 0 | 0–126 Rot Off<br>127–127 540 degree<br>128–191 Fast to Slow CW<br>192–192 Stop<br>193–255 Slow to Fast CCW |
| **18** | Frost1 | 0 | |
| **19** | Effect | 0 | 0–5 OFF<br>6–67 Show 1 (slow -> fast)<br>68–129 Show 2 (slow -> fast)<br>130–191 Show 3 (slow -> fast)<br>192–255 Show 4 (slow -> fast) |
| **20** | Control1 | 0 | 0–5 no function<br>6–15 Blackout while Moving on (Hold 3s)<br>16–25 Blackout while Moving off (Hold 3s)<br>26–35 Invert Pan on (Hold 3s)<br>36–45 Invert Pan off (Hold 3s)<br>46–55 Invert Tilt on (Hold 3s)<br>56–65 Invert Tilt off (Hold 3s)<br>66–75 Fan Speed Set Auto (Hold 3s)<br>76–85 Fan Speed Set Low (Hold 3s)<br>86–95 Fan Speed Set High (Hold 3s)<br>96–205 no function<br>206–215 Reset Pan / Tilt (Hold 3s)<br>216–225 Reset Head only (Hold 3s)<br>226–235 Reset All Functions (Hold 3s)<br>236–245 Gobo change normal(Hold 3s)<br>246–255 Gobo change to any position(Hold 3s) |

## Extend 1 23CH

23 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Pan | 128 | |
| **2** | Pan Fine | 0 | Fine byte of Pan |
| **3** | Tilt | 128 | |

## Extend 1 23CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **4** | Tilt Fine | 0 | Fine byte of Tilt |
| **5** | Position Effect Rate | 0 | |
| **6** | Position Effect | 0 | 0–5 Off<br>6–40 PAN "small > big"<br>41–75 TILT "small > big"<br>76–110 PAN / TILT "small > big"<br>111–145 PAN / TILT (invers) "small > big"<br>146–180 Circle "small > big"<br>181–215 Circle (invers) "small > big"<br>216–255 Random "small > big"5 |
| **7** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **8** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **9** | Shutter / Strobe | 50 | 0–31 Closed<br>32–63 Open<br>64–94 Strobe Min<br>95–95 Strobe Max<br>96–127 Open<br>128–158 Strobe Pulse Min<br>159–159 Strobe Pulse Max<br>160–191 Open<br>192–222 Random Strobe Min<br>223–223 Random Strobe Max<br>224–255 Shutter Open 2 |
| **10** | Color Wheel | 0 | 0–5 Color off (wheel slot 1)<br>6–11 Red (wheel slot 2)<br>12–17 Orange (wheel slot 3)<br>18–23 Yellow (wheel slot 4)<br>24–29 Green (wheel slot 5)<br>30–35 Dark Blue (wheel slot 6)<br>36–41 Purple (wheel slot 7)<br>42–47 Light Blue (wheel slot 8)<br>48–53 Magenta (wheel slot 9)<br>54–191 Rot Off<br>192–192 540 degree<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| **11** | Gobo | 0 | 0–5 Open/Hole (wheel slot 1)<br>6–20 Gobo 1 (wheel slot 2)<br>21–35 Gobo 2 (wheel slot 3)<br>36–50 Gobo 3 (wheel slot 4)<br>51–65 Gobo 4 (wheel slot 5)<br>66–80 Gobo 5 (wheel slot 6)<br>81–94 Gobo 6 (wheel slot 7)<br>96–110 Gobo 1 shake (wheel slot 2)<br>111–125 Gobo 2 shake (wheel slot 3)<br>126–140 Gobo 3 shake (wheel slot 4)<br>141–155 Gobo 4 shake (wheel slot 5)<br>156–170 Gobo 5 shake (wheel slot 6)<br>171–185 Gobo 6 shake (wheel slot 7)<br>186–192 Open (wheel slot 1)<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| **12** | Gobo Fine | 0 | Fine byte of Gobo |

## Extend 1 23CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **13** | Gobo Rotation | 0 | 0–126 Rot Off<br>127–127 540 degree<br>128–191 Fast to Slow CW<br>192–192 Stop<br>193–255 Slow to Fast CCW |
| **14** | Gobo Rotation Fine | 0 | Fine byte of Gobo Rotation |
| **15** | Gobo 2 | 0 | 0–5 Open/Hole (wheel slot 1)<br>6–20 Gobo 1 (wheel slot 2)<br>21–35 Gobo 2 (wheel slot 3)<br>36–50 Gobo 3 (wheel slot 4)<br>51–65 Gobo 4 (wheel slot 5)<br>66–80 Gobo 5 (wheel slot 6)<br>81–94 Gobo 6 (wheel slot 7)<br>96–110 Gobo 1 shake (wheel slot 2)<br>111–125 Gobo 2 shake (wheel slot 3)<br>126–140 Gobo 3 shake (wheel slot 4)<br>141–155 Gobo 4 shake (wheel slot 5)<br>156–170 Gobo 5 shake (wheel slot 6)<br>171–185 Gobo 6 shake (wheel slot 7)<br>186–192 Open (wheel slot 1)<br>193–223 Fast to Slow CW<br>224–224 Stop<br>225–255 Slow to Fast CCW |
| **16** | Gobo 2 Fine | 0 | Fine byte of Gobo 2 |
| **17** | Zoom | 128 | 0–127 narrow<br>128–254 middle<br>255–255 Width |
| **18** | Focus | 0 | |
| **19** | Prism | 0 | 0–5 Prism off (open) (wheel slot 1)<br>6–127 Prism 1 Linear (wheel slot 2)<br>128–255 Prism 2 Circle (wheel slot 3) |
| **20** | Prism Rotation | 0 | 0–126 Rot Off<br>127–127 540 degree<br>128–191 Fast to Slow CW<br>192–192 Stop<br>193–255 Slow to Fast CCW |
| **21** | Frost1 | 0 | |
| **22** | Effect | 0 | 0–5 OFF<br>6–67 Show 1 (slow -> fast)<br>68–129 Show 2 (slow -> fast)<br>130–191 Show 3 (slow -> fast)<br>192–255 Show 4 (slow -> fast) |
| **23** | Control1 | 0 | 0–5 no function<br>6–15 Blackout while Moving on (Hold 3s)<br>16–25 Blackout while Moving off (Hold 3s)<br>26–35 Invert Pan on (Hold 3s)<br>36–45 Invert Pan off (Hold 3s)<br>46–55 Invert Tilt on (Hold 3s)<br>56–65 Invert Tilt off (Hold 3s)<br>66–75 Fan Speed Set Auto (Hold 3s)<br>76–85 Fan Speed Set Low (Hold 3s)<br>86–95 Fan Speed Set High (Hold 3s)<br>96–205 no function<br>206–215 Reset Pan / Tilt (Hold 3s)<br>216–225 Reset Head only (Hold 3s)<br>226–235 Reset All Functions (Hold 3s)<br>236–245 Gobo change normal(Hold 3s)<br>246–255 Gobo change to any position(Hold 3s) |