CKC Lighting

# Gobo Projector 500FC



| | |
|---|---|
| Manufacturer | **CKC Lighting** |
| Type | **Profile spot** |
| DMX modes | **4** |
| DMX footprint | **32, 34, 49, 53 channels** |
| Beam angle | **7-50°** |
| Size (W × H × D) | **331 × 380 × 186 mm** |
| GDTF fixture type | **6F86C463-FF5B-4746-A009-0F9…** |

## Controls

Focus · Frost · Iris · Prism · Prism rotation · Zoom · Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Animation wheel · Gobos · Gobo rotation

## Safety-relevant functions

Fixture reset · Strobe

## DMX modes

| | |
|---|---|
| CMY Standard 32CH | 32 ch |
| Standard 34CH | 34 ch |
| CMY Extended 49CH | 49 ch |
| Extended 53CH | 53 ch |

## CMY Standard 32CH

32 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Cyan | 255 | |
| 2 | Magenta | 255 | |
| 3 | Yellow | 255 | |
| 4 | C TO | 0 | 0–17 Open<br>18–23 1800K<br>24–31 2400K<br>32–44 3200K<br>45–55 4500K<br>56–64 5600K<br>65–74 6500K<br>75–84 7500K<br>85–99 8500K<br>100–100 10000K<br>101–255 10000K(Full) |

## CMY Standard 32CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **5** | Color Wheel | 0 | 0–0 Open (wheel slot 61)<br>1–1 Pale Yellow (wheel slot 1)<br>2–2 Straw (wheel slot 2)<br>3–3 Gold Tint (wheel slot 3)<br>4–4 Spring Yellow (wheel slot 4)<br>5–5 Medium Yellow (wheel slot 5)<br>6–6 Yellow (wheel slot 6)<br>7–7 Deep Amber (wheel slot 7)<br>8–8 Deep Straw (wheel slot 8)<br>9–9 Loving Amber (wheel slot 9)<br>10–10 Gold Amber (wheel slot 10)<br>11–11 Orange (wheel slot 11)<br>12–12 Deep Orange (wheel slot 12)<br>13–13 Dark Amber (wheel slot 13)<br>14–14 Millennium Gold (wheel slot 14)<br>15–15 Deep Golden Amber (wheel slot 15)<br>16–16 Scarlet (wheel slot 16)<br>17–17 Primary Red (wheel slot 17)<br>18–18 Bright Red (wheel slot 18)<br>19–19 Medium Red (wheel slot 19)<br>20–20 Fire (wheel slot 20)<br>21–21 Pink (wheel slot 21)<br>22–22 Medium Pink (wheel slot 22)<br>23–23 Dark Pink (wheel slot 23)<br>24–24 Bright Pink (wheel slot 24)<br>25–25 Bright Rose (wheel slot 25)<br>26–26 Special Rose Pink (wheel slot 26)<br>27–27 Vanity Fair (wheel slot 27)<br>28–28 Magenta (wheel slot 28)<br>29–29 Dark Magenta (wheel slot 29)<br>30–30 Rose Purple (wheel slot 30)<br>31–31 Mauve (wheel slot 31)<br>32–32 Medium Purple (wheel slot 32)<br>33–33 Lavender (wheel slot 33)<br>34–34 Palace blue (wheel slot 34)<br>35–35 Dark Blue (wheel slot 35)<br>36–36 Medium Blue (wheel slot 36)<br>37–37 Deep Blue (wheel slot 37)<br>38–38 Daylight Blue (wheel slot 38)<br>39–39 Slate Blue (wheel slot 39)<br>40–40 Light Blue (wheel slot 40)<br>41–41 Sky Blue (wheel slot 41)<br>42–42 Pale Navy Blue (wheel slot 42)<br>43–43 Marine Blue (wheel slot 43)<br>44–44 Peacock Blue (wheel slot 44)<br>45–45 Lagoon Blue (wheel slot 45)<br>46–46 Medium Blue Green (wheel slot 46)<br>47–47 Dark Yellow Green (wheel slot 47)<br>48–48 Primary Green (wheel slot 48)<br>49–49 Fern Green (wheel slot 49)<br>50–50 Moss Green (wheel slot 50)<br>51–51 Dark Green (wheel slot 51)<br>52–52 Lime Green (wheel slot 52)<br>53–53 Pale Green (wheel slot 53)<br>54–54 Quarter CT Blue (wheel slot 54)<br>55–55 Half CT Blue (wheel slot 55)<br>56–56 Full CT Blue (wheel slot 56)<br>57–57 Double CT Blue (wheel slot 57)<br>58–58 Quarter CT Orange (wheel slot 58)<br>59–59 Half CT Orange (wheel slot 59)<br>60–60 Full CT Orange (wheel slot 60)<br>61–179 No Function<br>180–201 Clockwise fast to slow<br>202–207 Stop |

## CMY Standard 32CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **6** | Gobo | 0 | 0–9 open (wheel slot 1)<br>10–19 Gobo1 (wheel slot 2)<br>20–29 Gobo2 (wheel slot 3)<br>30–39 Gobo3 (wheel slot 4)<br>40–49 Gobo4 (wheel slot 5)<br>50–59 Gobo5 (wheel slot 6)<br>60–69 Gobo6 (wheel slot 7)<br>70–89 Gobo 1 shake (wheel slot 2)<br>90–109 Gobo 2 shake (wheel slot 3)<br>110–129 Gobo 3 shake (wheel slot 4)<br>130–149 Gobo 4 shake (wheel slot 5)<br>150–169 Gobo 5 shake (wheel slot 6)<br>170–189 Gobo 6 shake (wheel slot 7)<br>190–221 Fast to Slow CW<br>222–223 Stop<br>224–255 Slow to Fast CCW |
| **7** | Gobo Rotation | 0 | 0–126 indexing<br>127–189 Fast to Slow CW<br>190–191 No Rotation<br>192–255 Slow to Fast CW |
| **8** | Gobo Rotation Fine | 0 | Fine byte of Gobo Rotation |
| **9** | Gobo 2 | 0 | 0–9 Open (wheel slot 1)<br>10–19 Gobo 1 (wheel slot 2)<br>20–29 Gobo 2 (wheel slot 3)<br>30–39 Gobo 3 (wheel slot 4)<br>40–49 Gobo 4 (wheel slot 5)<br>50–59 Gobo 5 (wheel slot 6)<br>60–69 Gobo 6 (wheel slot 7)<br>70–77 Gobo 7 (wheel slot 8)<br>78–93 Gobo 1 shake (wheel slot 2)<br>94–109 Gobo 2 shake (wheel slot 3)<br>110–125 Gobo 3 shake (wheel slot 4)<br>126–141 Gobo 4 shake (wheel slot 5)<br>142–157 Gobo 5 shake (wheel slot 6)<br>158–173 Gobo 6 shake (wheel slot 7)<br>174–189 Gobo 7 shake (wheel slot 8)<br>190–221 Fast to Slow CW<br>222–223 No Rotation<br>224–255 Slow to Fast CCW |
| **10** | Prism | 0 | 0–5 No Prism (wheel slot 1)<br>6–127 4 Liner Prism (wheel slot 2)<br>128–255 3 Facet Prism (wheel slot 3) |
| **11** | Prism Rotation | 0 | 0–126 Index 0-540<br>127–188 Fast to Slow CW<br>189–192 No Rotation<br>193–255 Slow to Fast |
| **12** | Prism Rotation Fine | 0 | Fine byte of Prism Rotation |
| **13** | Focus | 128 | |
| **14** | Focus Fine | 0 | Fine byte of Focus |
| **15** | Zoom | 128 | 0–254 Narrow<br>255–255 Wide |
| **16** | Zoom Fine | 0 | Fine byte of Zoom |

## CMY Standard 32CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **17** | Shutter / Strobe | 50 | 0–31 Shutter closed<br>32–63 Shutter open1<br>64–94 min strobe<br>95–95 max strobe<br>96–127 Shutter open2<br>128–158 min pulse<br>159–159 max pulse<br>160–191 Shutter open3<br>192–222 min random<br>223–223 max random<br>224–255 Shutter open4 |
| **18** | Dimmer | 0 | 0–254 Intensity 0%<br>255–255 Intensity 100% |
| **19** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **20** | Iris | 0 | 0–190 max<br>191–191 min<br>192–223 Pulse opening fast to slow<br>224–255 Pulse closing slow to fast |
| **21** | Frost1 | 0 | 0–254 closed<br>255–255 open |
| **22** | Animation Wheel1 | 0 | 0–5 open<br>6–127 Indexing<br>128–189 Fast to slow CW<br>190–193 No rotation<br>194–255 Slow to fast CCW |
| **23** | Blade1A | 0 | |
| **24** | Blade1B | 0 | |
| **25** | Blade2A | 0 | |
| **26** | Blade2B | 0 | |
| **27** | Blade3A | 0 | |
| **28** | Blade3B | 0 | |
| **29** | Blade4A | 0 | |
| **30** | Blade4B | 0 | |
| **31** | Shaper Rot | 128 | 0–127 0%<br>128–254 50%<br>255–255 100% |

### CMY Standard 32CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **32** | Control1 | 0 | 0–30 No function<br>31–40 Fan Mode Auto (Hold 3s)<br>41–50 Fan Mode High (Hold 3s)<br>51–60 Fan Mode Low(Hold 3s)<br>61–70 All motor Reset (Hold 3s)<br>71–80 Gobo Reset (Hold 3s)<br>81–90 Focus Reset (Hold 3s)<br>91–100 Other motors Reset (Hold 3s)<br>101–105 900 Hz<br>106–110 1000 Hz<br>111–115 1100 Hz<br>116–120 1200 Hz<br>121–125 1300 Hz<br>126–130 1400 Hz<br>131–135 1500 Hz<br>136–140 2500 Hz<br>141–145 4000 Hz<br>146–150 5000 Hz<br>151–155 10000 Hz<br>156–160 15000 Hz<br>161–165 20000 Hz<br>166–170 25000 Hz<br>171–180 Dimmer Curve Linear(Hold 3s)<br>181–190 Dimmer Curve Square(Hold 3s)<br>191–200 Dimmer Curve Inverse Square (Hold 3s)<br>201–210 Dimmer Curve S-Curve (Hold 3s)<br>211–220 DTW OFF<br>221–230 DTW ON<br>231–255 No Function |

## Standard 34CH

34 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Red | 255 | |
| **2** | Green | 255 | |
| **3** | Blue | 255 | |
| **4** | Color Add RY | 255 | |
| **5** | Color Add GY | 255 | |
| **6** | C TO | 0 | 0–17 Open<br>18–23 1800K<br>24–31 2400K<br>32–44 3200K<br>45–55 4500K<br>56–64 5600K<br>65–74 6500K<br>75–84 7500K<br>85–99 8500K<br>100–100 10000K<br>101–255 10000K(Full) |

## Standard 34CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 7 | Color Wheel | 0 | 0–0 Open (wheel slot 61)<br>1–1 Pale Yellow (wheel slot 1)<br>2–2 Straw (wheel slot 2)<br>3–3 Gold Tint (wheel slot 3)<br>4–4 Spring Yellow (wheel slot 4)<br>5–5 Medium Yellow (wheel slot 5)<br>6–6 Yellow (wheel slot 6)<br>7–7 Deep Amber (wheel slot 7)<br>8–8 Deep Straw (wheel slot 8)<br>9–9 Loving Amber (wheel slot 9)<br>10–10 Gold Amber (wheel slot 10)<br>11–11 Orange (wheel slot 11)<br>12–12 Deep Orange (wheel slot 12)<br>13–13 Dark Amber (wheel slot 13)<br>14–14 Millennium Gold (wheel slot 14)<br>15–15 Deep Golden Amber (wheel slot 15)<br>16–16 Scarlet (wheel slot 16)<br>17–17 Primary Red (wheel slot 17)<br>18–18 Bright Red (wheel slot 18)<br>19–19 Medium Red (wheel slot 19)<br>20–20 Fire (wheel slot 20)<br>21–21 Pink (wheel slot 21)<br>22–22 Medium Pink (wheel slot 22)<br>23–23 Dark Pink (wheel slot 23)<br>24–24 Bright Pink (wheel slot 24)<br>25–25 Bright Rose (wheel slot 25)<br>26–26 Special Rose Pink (wheel slot 26)<br>27–27 Vanity Fair (wheel slot 27)<br>28–28 Magenta (wheel slot 28)<br>29–29 Dark Magenta (wheel slot 29)<br>30–30 Rose Purple (wheel slot 30)<br>31–31 Mauve (wheel slot 31)<br>32–32 Medium Purple (wheel slot 32)<br>33–33 Lavender (wheel slot 33)<br>34–34 Palace blue (wheel slot 34)<br>35–35 Dark Blue (wheel slot 35)<br>36–36 Medium Blue (wheel slot 36)<br>37–37 Deep Blue (wheel slot 37)<br>38–38 Daylight Blue (wheel slot 38)<br>39–39 Slate Blue (wheel slot 39)<br>40–40 Light Blue (wheel slot 40)<br>41–41 Sky Blue (wheel slot 41)<br>42–42 Pale Navy Blue (wheel slot 42)<br>43–43 Marine Blue (wheel slot 43)<br>44–44 Peacock Blue (wheel slot 44)<br>45–45 Lagoon Blue (wheel slot 45)<br>46–46 Medium Blue Green (wheel slot 46)<br>47–47 Dark Yellow Green (wheel slot 47)<br>48–48 Primary Green (wheel slot 48)<br>49–49 Fern Green (wheel slot 49)<br>50–50 Moss Green (wheel slot 50)<br>51–51 Dark Green (wheel slot 51)<br>52–52 Lime Green (wheel slot 52)<br>53–53 Pale Green (wheel slot 53)<br>54–54 Quarter CT Blue (wheel slot 54)<br>55–55 Half CT Blue (wheel slot 55)<br>56–56 Full CT Blue (wheel slot 56)<br>57–57 Double CT Blue (wheel slot 57)<br>58–58 Quarter CT Orange (wheel slot 58)<br>59–59 Half CT Orange (wheel slot 59)<br>60–60 Full CT Orange (wheel slot 60)<br>61–179 No Function<br>180–201 Clockwise fast to slow<br>202–207 Stop |

## Standard 34CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **8** | Gobo | 0 | 0–9 open (wheel slot 1)<br>10–19 Gobo1 (wheel slot 2)<br>20–29 Gobo2 (wheel slot 3)<br>30–39 Gobo3 (wheel slot 4)<br>40–49 Gobo4 (wheel slot 5)<br>50–59 Gobo5 (wheel slot 6)<br>60–69 Gobo6 (wheel slot 7)<br>70–89 Gobo 1 shake (wheel slot 2)<br>90–109 Gobo 2 shake (wheel slot 3)<br>110–129 Gobo 3 shake (wheel slot 4)<br>130–149 Gobo 4 shake (wheel slot 5)<br>150–169 Gobo 5 shake (wheel slot 6)<br>170–189 Gobo 6 shake (wheel slot 7)<br>190–221 Fast to Slow CW<br>222–223 Stop<br>224–255 Slow to Fast CCW |
| **9** | Gobo Rotation | 0 | 0–126 indexing<br>127–189 Fast to Slow CW<br>190–191 No Rotation<br>192–255 Slow to Fast CW |
| **10** | Gobo Rotation Fine | 0 | Fine byte of Gobo Rotation |
| **11** | Gobo 2 | 0 | 0–9 Open (wheel slot 1)<br>10–19 Gobo 1 (wheel slot 2)<br>20–29 Gobo 2 (wheel slot 3)<br>30–39 Gobo 3 (wheel slot 4)<br>40–49 Gobo 4 (wheel slot 5)<br>50–59 Gobo 5 (wheel slot 6)<br>60–69 Gobo 6 (wheel slot 7)<br>70–77 Gobo 7 (wheel slot 8)<br>78–93 Gobo 1 shake (wheel slot 2)<br>94–109 Gobo 2 shake (wheel slot 3)<br>110–125 Gobo 3 shake (wheel slot 4)<br>126–141 Gobo 4 shake (wheel slot 5)<br>142–157 Gobo 5 shake (wheel slot 6)<br>158–173 Gobo 6 shake (wheel slot 7)<br>174–189 Gobo 7 shake (wheel slot 8)<br>190–221 Fast to Slow CW<br>222–223 No Rotation<br>224–255 Slow to Fast CCW |
| **12** | Prism | 0 | 0–5 No Prism (wheel slot 1)<br>6–127 4 Liner Prism (wheel slot 2)<br>128–255 3 Facet Prism (wheel slot 3) |
| **13** | Prism Rotation | 0 | 0–126 Index 0-540<br>127–188 Fast to Slow CW<br>189–192 No Rotation<br>193–255 Slow to Fast |
| **14** | Prism Rotation Fine | 0 | Fine byte of Prism Rotation |
| **15** | Focus | 128 | |
| **16** | Focus Fine | 0 | Fine byte of Focus |
| **17** | Zoom | 128 | 0–254 Narrow<br>255–255 Wide |
| **18** | Zoom Fine | 0 | Fine byte of Zoom |

## Standard 34CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **19** | Shutter / Strobe | 50 | 0–31 Shutter closed<br>32–63 Shutter open1<br>64–94 min strobe<br>95–95 max strobe<br>96–127 Shutter open2<br>128–158 min pulse<br>159–159 max pulse<br>160–191 Shutter open3<br>192–222 min random<br>223–223 max random<br>224–255 Shutter open4 |
| **20** | Dimmer | 0 | 0–254 Intensity 0%<br>255–255 Intensity 100% |
| **21** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **22** | Iris | 0 | 0–190 max<br>191–191 min<br>192–223 Pulse opening fast to slow<br>224–255 Pulse closing slow to fast |
| **23** | Frost1 | 0 | 0–254 closed<br>255–255 open |
| **24** | Animation Wheel1 | 0 | 0–5 open<br>6–127 Indexing<br>128–189 Fast to slow CW<br>190–193 No rotation<br>194–255 Slow to fast CCW |
| **25** | Blade1A | 0 | |
| **26** | Blade1B | 0 | |
| **27** | Blade2A | 0 | |
| **28** | Blade2B | 0 | |
| **29** | Blade3A | 0 | |
| **30** | Blade3B | 0 | |
| **31** | Blade4A | 0 | |
| **32** | Blade4B | 0 | |
| **33** | Shaper Rot | 128 | 0–127 0%<br>128–254 50%<br>255–255 100% |

### Standard 34CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **34** | Control1 | 0 | 0–30 No function<br>31–40 Fan Mode Auto (Hold 3s)<br>41–50 Fan Mode High (Hold 3s)<br>51–60 Fan Mode Low(Hold 3s)<br>61–70 All motor Reset (Hold 3s)<br>71–80 Gobo Reset (Hold 3s)<br>81–90 Focus Reset (Hold 3s)<br>91–100 Other motors Reset (Hold 3s)<br>101–105 900 Hz<br>106–110 1000 Hz<br>111–115 1100 Hz<br>116–120 1200 Hz<br>121–125 1300 Hz<br>126–130 1400 Hz<br>131–135 1500 Hz<br>136–140 2500 Hz<br>141–145 4000 Hz<br>146–150 5000 Hz<br>151–155 10000 Hz<br>156–160 15000 Hz<br>161–165 20000 Hz<br>166–170 25000 Hz<br>171–180 Dimmer Curve Linear(Hold 3s)<br>181–190 Dimmer Curve Square(Hold 3s)<br>191–200 Dimmer Curve Inverse Square (Hold 3s)<br>201–210 Dimmer Curve S-Curve (Hold 3s)<br>211–220 DTW OFF<br>221–230 DTW ON<br>231–255 No Function |

## CMY Extended 49CH

49 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Cyan | 255 | |
| **2** | Cyan Fine | 255 | Fine byte of Cyan |
| **3** | Magenta | 255 | |
| **4** | Magenta Fine | 255 | Fine byte of Magenta |
| **5** | Yellow | 255 | |
| **6** | Yellow Fine | 255 | Fine byte of Yellow |
| **7** | C TO | 0 | 0–17 Open<br>18–23 1800K<br>24–31 2400K<br>32–44 3200K<br>45–55 4500K<br>56–64 5600K<br>65–74 6500K<br>75–84 7500K<br>85–99 8500K<br>100–100 10000K<br>101–255 10000K(Full) |

## CMY Extended 49CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **8** | Color Wheel | 0 | 0–0 Open (wheel slot 61)<br>1–1 Pale Yellow (wheel slot 1)<br>2–2 Straw (wheel slot 2)<br>3–3 Gold Tint (wheel slot 3)<br>4–4 Spring Yellow (wheel slot 4)<br>5–5 Medium Yellow (wheel slot 5)<br>6–6 Yellow (wheel slot 6)<br>7–7 Deep Amber (wheel slot 7)<br>8–8 Deep Straw (wheel slot 8)<br>9–9 Loving Amber (wheel slot 9)<br>10–10 Gold Amber (wheel slot 10)<br>11–11 Orange (wheel slot 11)<br>12–12 Deep Orange (wheel slot 12)<br>13–13 Dark Amber (wheel slot 13)<br>14–14 Millennium Gold (wheel slot 14)<br>15–15 Deep Golden Amber (wheel slot 15)<br>16–16 Scarlet (wheel slot 16)<br>17–17 Primary Red (wheel slot 17)<br>18–18 Bright Red (wheel slot 18)<br>19–19 Medium Red (wheel slot 19)<br>20–20 Fire (wheel slot 20)<br>21–21 Pink (wheel slot 21)<br>22–22 Medium Pink (wheel slot 22)<br>23–23 Dark Pink (wheel slot 23)<br>24–24 Bright Pink (wheel slot 24)<br>25–25 Bright Rose (wheel slot 25)<br>26–26 Special Rose Pink (wheel slot 26)<br>27–27 Vanity Fair (wheel slot 27)<br>28–28 Magenta (wheel slot 28)<br>29–29 Dark Magenta (wheel slot 29)<br>30–30 Rose Purple (wheel slot 30)<br>31–31 Mauve (wheel slot 31)<br>32–32 Medium Purple (wheel slot 32)<br>33–33 Lavender (wheel slot 33)<br>34–34 Palace blue (wheel slot 34)<br>35–35 Dark Blue (wheel slot 35)<br>36–36 Medium Blue (wheel slot 36)<br>37–37 Deep Blue (wheel slot 37)<br>38–38 Daylight Blue (wheel slot 38)<br>39–39 Slate Blue (wheel slot 39)<br>40–40 Light Blue (wheel slot 40)<br>41–41 Sky Blue (wheel slot 41)<br>42–42 Pale Navy Blue (wheel slot 42)<br>43–43 Marine Blue (wheel slot 43)<br>44–44 Peacock Blue (wheel slot 44)<br>45–45 Lagoon Blue (wheel slot 45)<br>46–46 Medium Blue Green (wheel slot 46)<br>47–47 Dark Yellow Green (wheel slot 47)<br>48–48 Primary Green (wheel slot 48)<br>49–49 Fern Green (wheel slot 49)<br>50–50 Moss Green (wheel slot 50)<br>51–51 Dark Green (wheel slot 51)<br>52–52 Lime Green (wheel slot 52)<br>53–53 Pale Green (wheel slot 53)<br>54–54 Quarter CT Blue (wheel slot 54)<br>55–55 Half CT Blue (wheel slot 55)<br>56–56 Full CT Blue (wheel slot 56)<br>57–57 Double CT Blue (wheel slot 57)<br>58–58 Quarter CT Orange (wheel slot 58)<br>59–59 Half CT Orange (wheel slot 59)<br>60–60 Full CT Orange (wheel slot 60)<br>61–179 No Function<br>180–201 Clockwise fast to slow<br>202–207 Stop |

## CMY Extended 49CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **9** | Tint | 0 | 0–0 Idle<br>1–127 Full Minus Green to Neutral<br>128–128 Neutral White<br>129–255 Neutral to Full Plus Green |
| **10** | Gobo | 0 | 0–9 open (wheel slot 1)<br>10–19 Gobo1 (wheel slot 2)<br>20–29 Gobo2 (wheel slot 3)<br>30–39 Gobo3 (wheel slot 4)<br>40–49 Gobo4 (wheel slot 5)<br>50–59 Gobo5 (wheel slot 6)<br>60–69 Gobo6 (wheel slot 7)<br>70–89 Gobo 1 shake (wheel slot 2)<br>90–109 Gobo 2 shake (wheel slot 3)<br>110–129 Gobo 3 shake (wheel slot 4)<br>130–149 Gobo 4 shake (wheel slot 5)<br>150–169 Gobo 5 shake (wheel slot 6)<br>170–189 Gobo 6 shake (wheel slot 7)<br>190–221 Fast to Slow CW<br>222–223 Stop<br>224–255 Slow to Fast CCW |
| **11** | Gobo Rotation | 0 | 0–126 indexing<br>127–189 Fast to Slow CW<br>190–191 No Rotation<br>192–255 Slow to Fast CW |
| **12** | Gobo Rotation Fine | 0 | Fine byte of Gobo Rotation |
| **13** | Gobo 2 | 0 | 0–9 Open (wheel slot 1)<br>10–19 Gobo 1 (wheel slot 2)<br>20–29 Gobo 2 (wheel slot 3)<br>30–39 Gobo 3 (wheel slot 4)<br>40–49 Gobo 4 (wheel slot 5)<br>50–59 Gobo 5 (wheel slot 6)<br>60–69 Gobo 6 (wheel slot 7)<br>70–77 Gobo 7 (wheel slot 8)<br>78–93 Gobo 1 shake (wheel slot 2)<br>94–109 Gobo 2 shake (wheel slot 3)<br>110–125 Gobo 3 shake (wheel slot 4)<br>126–141 Gobo 4 shake (wheel slot 5)<br>142–157 Gobo 5 shake (wheel slot 6)<br>158–173 Gobo 6 shake (wheel slot 7)<br>174–189 Gobo 7 shake (wheel slot 8)<br>190–221 Fast to Slow CW<br>222–223 No Rotation<br>224–255 Slow to Fast CCW |
| **14** | Prism | 0 | 0–5 No Prism (wheel slot 1)<br>6–127 4 Liner Prism (wheel slot 2)<br>128–255 3 Facet Prism (wheel slot 3) |
| **15** | Prism Rotation | 0 | 0–126 Index 0-540<br>127–188 Fast to Slow CW<br>189–192 No Rotation<br>193–255 Slow to Fast |
| **16** | Prism Rotation Fine | 0 | Fine byte of Prism Rotation |
| **17** | Focus | 128 | |
| **18** | Focus Fine | 0 | Fine byte of Focus |
| **19** | Zoom | 128 | 0–254 Narrow<br>255–255 Wide |
| **20** | Zoom Fine | 0 | Fine byte of Zoom |

## CMY Extended 49CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 21 | Shutter / Strobe | 50 | 0–31 Shutter closed<br>32–63 Shutter open1<br>64–94 min strobe<br>95–95 max strobe<br>96–127 Shutter open2<br>128–158 min pulse<br>159–159 max pulse<br>160–191 Shutter open3<br>192–222 min random<br>223–223 max random<br>224–255 Shutter open4 |
| 22 | Dimmer | 0 | 0–254 Intensity 0%<br>255–255 Intensity 100% |
| 23 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 24 | Dimmer Mode | 0 | 0–20 Standard<br>21–40 Stage<br>41–60 TV<br>61–80 Architectural<br>81–100 Theatre<br>101–255 Default to Unit Setting |
| 25 | Iris | 0 | 0–190 max<br>191–222 min<br>223–255 Pulse closing slow to fast |
| 26 | Iris Fine | 0 | Fine byte of Iris |
| 27 | Frost1 | 0 | 0–254 closed<br>255–255 open |
| 28 | Animation Wheel1 | 0 | 0–5 open<br>6–127 Indexing<br>128–189 Fast to slow CW<br>190–193 No rotation<br>194–255 Slow to fast CCW |
| 29 | Blade1A | 0 | |
| 30 | Blade1A Fine | 0 | Fine byte of Blade1A |
| 31 | Blade1B | 0 | |
| 32 | Blade1B Fine | 0 | Fine byte of Blade1B |
| 33 | Blade2A | 0 | |
| 34 | Blade2A Fine | 0 | Fine byte of Blade2A |
| 35 | Blade2B | 0 | |
| 36 | Blade2B Fine | 0 | Fine byte of Blade2B |
| 37 | Blade3A | 0 | |
| 38 | Blade3A Fine | 0 | Fine byte of Blade3A |
| 39 | Blade3B | 0 | |
| 40 | Blade3B Fine | 0 | Fine byte of Blade3B |
| 41 | Blade4A | 0 | |
| 42 | Blade4A Fine | 0 | Fine byte of Blade4A |
| 43 | Blade4B | 0 | |
| 44 | Blade4B Fine | 0 | Fine byte of Blade4B |
| 45 | Shaper Rot | 128 | 0–127 0%<br>128–254 50%<br>255–255 100% |
| 46 | Shaper Rot Fine | 0 | Fine byte of Shaper Rot |
| 47 | Frame MSpeed | 0 | |

## CMY Extended 49CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **48** | Shaper Macros | 0 | 0–7 Off<br>8–15 Macro 1<br>16–23 Macro 2<br>24–31 Macro 3<br>32–39 Macro 4<br>40–47 Macro 5<br>48–55 Macro 6<br>56–63 Macro 7<br>64–71 Macro 8<br>72–79 Macro 9<br>80–87 Macro 10<br>88–95 Macro 11<br>96–103 Macro 12<br>104–111 Macro 13<br>112–119 Macro 14<br>120–127 Macro 15<br>128–135 Macro 16<br>136–143 Macro 17<br>144–151 Macro 18<br>152–159 Macro 19<br>160–167 Macro 20<br>168–175 Macro 21<br>176–183 Macro 22<br>184–191 Macro 23<br>192–199 Macro 24<br>200–207 Macro 25<br>208–215 Macro 26<br>216–223 Macro 27<br>224–231 Macro 28<br>232–239 Macro 29<br>240–247 Macro 30<br>248–255 Macro 31 |
| **49** | Control1 | 0 | 0–30 No function<br>31–40 Fan Mode Auto (Hold 3s)<br>41–50 Fan Mode High (Hold 3s)<br>51–60 Fan Mode Low(Hold 3s)<br>61–70 All motor Reset (Hold 3s)<br>71–80 Gobo Reset (Hold 3s)<br>81–90 Focus Reset (Hold 3s)<br>91–100 Other motors Reset (Hold 3s)<br>101–105 900 Hz<br>106–110 1000 Hz<br>111–115 1100 Hz<br>116–120 1200 Hz<br>121–125 1300 Hz<br>126–130 1400 Hz<br>131–135 1500 Hz<br>136–140 2500 Hz<br>141–145 4000 Hz<br>146–150 5000 Hz<br>151–155 10000 Hz<br>156–160 15000 Hz<br>161–165 20000 Hz<br>166–170 25000 Hz<br>171–180 Dimmer Curve Linear(Hold 3s)<br>181–190 Dimmer Curve Square(Hold 3s)<br>191–200 Dimmer Curve Inverse Square (Hold 3s)<br>201–210 Dimmer Curve S-Curve (Hold 3s)<br>211–220 DTW OFF<br>221–230 DTW ON<br>231–255 No Function |

## Extended 53CH

53 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Red | 255 | |
| **2** | Red Fine | 255 | Fine byte of Red |
| **3** | Green | 255 | |
| **4** | Green Fine | 255 | Fine byte of Green |
| **5** | Blue | 255 | |
| **6** | Blue Fine | 255 | Fine byte of Blue |
| **7** | Color Add RY | 255 | |
| **8** | Color Add RY Fine | 255 | Fine byte of Color Add RY |
| **9** | Color Add GY | 255 | |
| **10** | Color Add GY Fine | 255 | Fine byte of Color Add GY |
| **11** | C TO | 0 | 0–17 Open<br>18–23 1800K<br>24–31 2400K<br>32–44 3200K<br>45–55 4500K<br>56–64 5600K<br>65–74 6500K<br>75–84 7500K<br>85–99 8500K<br>100–100 10000K<br>101–255 10000K(Full) |

## Extended 53CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 12 | Color Wheel | 0 | 0–0 Open (wheel slot 61)<br>1–1 Pale Yellow (wheel slot 1)<br>2–2 Straw (wheel slot 2)<br>3–3 Gold Tint (wheel slot 3)<br>4–4 Spring Yellow (wheel slot 4)<br>5–5 Medium Yellow (wheel slot 5)<br>6–6 Yellow (wheel slot 6)<br>7–7 Deep Amber (wheel slot 7)<br>8–8 Deep Straw (wheel slot 8)<br>9–9 Loving Amber (wheel slot 9)<br>10–10 Gold Amber (wheel slot 10)<br>11–11 Orange (wheel slot 11)<br>12–12 Deep Orange (wheel slot 12)<br>13–13 Dark Amber (wheel slot 13)<br>14–14 Millennium Gold (wheel slot 14)<br>15–15 Deep Golden Amber (wheel slot 15)<br>16–16 Scarlet (wheel slot 16)<br>17–17 Primary Red (wheel slot 17)<br>18–18 Bright Red (wheel slot 18)<br>19–19 Medium Red (wheel slot 19)<br>20–20 Fire (wheel slot 20)<br>21–21 Pink (wheel slot 21)<br>22–22 Medium Pink (wheel slot 22)<br>23–23 Dark Pink (wheel slot 23)<br>24–24 Bright Pink (wheel slot 24)<br>25–25 Bright Rose (wheel slot 25)<br>26–26 Special Rose Pink (wheel slot 26)<br>27–27 Vanity Fair (wheel slot 27)<br>28–28 Magenta (wheel slot 28)<br>29–29 Dark Magenta (wheel slot 29)<br>30–30 Rose Purple (wheel slot 30)<br>31–31 Mauve (wheel slot 31)<br>32–32 Medium Purple (wheel slot 32)<br>33–33 Lavender (wheel slot 33)<br>34–34 Palace blue (wheel slot 34)<br>35–35 Dark Blue (wheel slot 35)<br>36–36 Medium Blue (wheel slot 36)<br>37–37 Deep Blue (wheel slot 37)<br>38–38 Daylight Blue (wheel slot 38)<br>39–39 Slate Blue (wheel slot 39)<br>40–40 Light Blue (wheel slot 40)<br>41–41 Sky Blue (wheel slot 41)<br>42–42 Pale Navy Blue (wheel slot 42)<br>43–43 Marine Blue (wheel slot 43)<br>44–44 Peacock Blue (wheel slot 44)<br>45–45 Lagoon Blue (wheel slot 45)<br>46–46 Medium Blue Green (wheel slot 46)<br>47–47 Dark Yellow Green (wheel slot 47)<br>48–48 Primary Green (wheel slot 48)<br>49–49 Fern Green (wheel slot 49)<br>50–50 Moss Green (wheel slot 50)<br>51–51 Dark Green (wheel slot 51)<br>52–52 Lime Green (wheel slot 52)<br>53–53 Pale Green (wheel slot 53)<br>54–54 Quarter CT Blue (wheel slot 54)<br>55–55 Half CT Blue (wheel slot 55)<br>56–56 Full CT Blue (wheel slot 56)<br>57–57 Double CT Blue (wheel slot 57)<br>58–58 Quarter CT Orange (wheel slot 58)<br>59–59 Half CT Orange (wheel slot 59)<br>60–60 Full CT Orange (wheel slot 60)<br>61–179 No Function<br>180–201 Clockwise fast to slow<br>202–207 Stop |

## Extended 53CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **13** | Tint | 0 | 0–0 Idle<br>1–127 Full Minus Green to Neutral<br>128–128 Neutral White<br>129–255 Neutral to Full Plus Green |
| **14** | Gobo | 0 | 0–9 open (wheel slot 1)<br>10–19 Gobo1 (wheel slot 2)<br>20–29 Gobo2 (wheel slot 3)<br>30–39 Gobo3 (wheel slot 4)<br>40–49 Gobo4 (wheel slot 5)<br>50–59 Gobo5 (wheel slot 6)<br>60–69 Gobo6 (wheel slot 7)<br>70–89 Gobo 1 shake (wheel slot 2)<br>90–109 Gobo 2 shake (wheel slot 3)<br>110–129 Gobo 3 shake (wheel slot 4)<br>130–149 Gobo 4 shake (wheel slot 5)<br>150–169 Gobo 5 shake (wheel slot 6)<br>170–189 Gobo 6 shake (wheel slot 7)<br>190–221 Fast to Slow CW<br>222–223 Stop<br>224–255 Slow to Fast CCW |
| **15** | Gobo Rotation | 0 | 0–126 indexing<br>127–189 Fast to Slow CW<br>190–191 No Rotation<br>192–255 Slow to Fast CW |
| **16** | Gobo Rotation Fine | 0 | Fine byte of Gobo Rotation |
| **17** | Gobo 2 | 0 | 0–9 Open (wheel slot 1)<br>10–19 Gobo 1 (wheel slot 2)<br>20–29 Gobo 2 (wheel slot 3)<br>30–39 Gobo 3 (wheel slot 4)<br>40–49 Gobo 4 (wheel slot 5)<br>50–59 Gobo 5 (wheel slot 6)<br>60–69 Gobo 6 (wheel slot 7)<br>70–77 Gobo 7 (wheel slot 8)<br>78–93 Gobo 1 shake (wheel slot 2)<br>94–109 Gobo 2 shake (wheel slot 3)<br>110–125 Gobo 3 shake (wheel slot 4)<br>126–141 Gobo 4 shake (wheel slot 5)<br>142–157 Gobo 5 shake (wheel slot 6)<br>158–173 Gobo 6 shake (wheel slot 7)<br>174–189 Gobo 7 shake (wheel slot 8)<br>190–221 Fast to Slow CW<br>222–223 No Rotation<br>224–255 Slow to Fast CCW |
| **18** | Prism | 0 | 0–5 No Prism (wheel slot 1)<br>6–127 4 Liner Prism (wheel slot 2)<br>128–255 3 Facet Prism (wheel slot 3) |
| **19** | Prism Rotation | 0 | 0–126 Index 0-540<br>127–188 Fast to Slow CW<br>189–192 No Rotation<br>193–255 Slow to Fast |
| **20** | Prism Rotation Fine | 0 | Fine byte of Prism Rotation |
| **21** | Focus | 128 | |
| **22** | Focus Fine | 0 | Fine byte of Focus |
| **23** | Zoom | 128 | 0–254 Narrow<br>255–255 Wide |
| **24** | Zoom Fine | 0 | Fine byte of Zoom |

## Extended 53CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **25** | Shutter / Strobe | 50 | 0–31 Shutter closed<br>32–63 Shutter open1<br>64–94 min strobe<br>95–95 max strobe<br>96–127 Shutter open2<br>128–158 min pulse<br>159–159 max pulse<br>160–191 Shutter open3<br>192–222 min random<br>223–223 max random<br>224–255 Shutter open4 |
| **26** | Dimmer | 0 | 0–254 Intensity 0%<br>255–255 Intensity 100% |
| **27** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **28** | Dimmer Mode | 0 | 0–20 Standard<br>21–40 Stage<br>41–60 TV<br>61–80 Architectural<br>81–100 Theatre<br>101–255 Default to Unit Setting |
| **29** | Iris | 0 | 0–190 max<br>191–222 min<br>223–255 Pulse closing slow to fast |
| **30** | Iris Fine | 0 | Fine byte of Iris |
| **31** | Frost1 | 0 | 0–254 closed<br>255–255 open |
| **32** | Animation Wheel1 | 0 | 0–5 open<br>6–127 Indexing<br>128–189 Fast to slow CW<br>190–193 No rotation<br>194–255 Slow to fast CCW |
| **33** | Blade1A | 0 | |
| **34** | Blade1A Fine | 0 | Fine byte of Blade1A |
| **35** | Blade1B | 0 | |
| **36** | Blade1B Fine | 0 | Fine byte of Blade1B |
| **37** | Blade2A | 0 | |
| **38** | Blade2A Fine | 0 | Fine byte of Blade2A |
| **39** | Blade2B | 0 | |
| **40** | Blade2B Fine | 0 | Fine byte of Blade2B |
| **41** | Blade3A | 0 | |
| **42** | Blade3A Fine | 0 | Fine byte of Blade3A |
| **43** | Blade3B | 0 | |
| **44** | Blade3B Fine | 0 | Fine byte of Blade3B |
| **45** | Blade4A | 0 | |
| **46** | Blade4A Fine | 0 | Fine byte of Blade4A |
| **47** | Blade4B | 0 | |
| **48** | Blade4B Fine | 0 | Fine byte of Blade4B |
| **49** | Shaper Rot | 128 | 0–127 0%<br>128–254 50%<br>255–255 100% |
| **50** | Shaper Rot Fine | 0 | Fine byte of Shaper Rot |
| **51** | Frame MSpeed | 0 | |

## Extended 53CH (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **52** | Shaper Macros | 0 | 0–7 Off<br>8–15 Macro 1<br>16–23 Macro 2<br>24–31 Macro 3<br>32–39 Macro 4<br>40–47 Macro 5<br>48–55 Macro 6<br>56–63 Macro 7<br>64–71 Macro 8<br>72–79 Macro 9<br>80–87 Macro 10<br>88–95 Macro 11<br>96–103 Macro 12<br>104–111 Macro 13<br>112–119 Macro 14<br>120–127 Macro 15<br>128–135 Macro 16<br>136–143 Macro 17<br>144–151 Macro 18<br>152–159 Macro 19<br>160–167 Macro 20<br>168–175 Macro 21<br>176–183 Macro 22<br>184–191 Macro 23<br>192–199 Macro 24<br>200–207 Macro 25<br>208–215 Macro 26<br>216–223 Macro 27<br>224–231 Macro 28<br>232–239 Macro 29<br>240–247 Macro 30<br>248–255 Macro 31 |
| **53** | Control1 | 0 | 0–30 No function<br>31–40 Fan Mode Auto (Hold 3s)<br>41–50 Fan Mode High (Hold 3s)<br>51–60 Fan Mode Low(Hold 3s)<br>61–70 All motor Reset (Hold 3s)<br>71–80 Gobo Reset (Hold 3s)<br>81–90 Focus Reset (Hold 3s)<br>91–100 Other motors Reset (Hold 3s)<br>101–105 900 Hz<br>106–110 1000 Hz<br>111–115 1100 Hz<br>116–120 1200 Hz<br>121–125 1300 Hz<br>126–130 1400 Hz<br>131–135 1500 Hz<br>136–140 2500 Hz<br>141–145 4000 Hz<br>146–150 5000 Hz<br>151–155 10000 Hz<br>156–160 15000 Hz<br>161–165 20000 Hz<br>166–170 25000 Hz<br>171–180 Dimmer Curve Linear(Hold 3s)<br>181–190 Dimmer Curve Square(Hold 3s)<br>191–200 Dimmer Curve Inverse Square (Hold 3s)<br>201–210 Dimmer Curve S-Curve (Hold 3s)<br>211–220 DTW OFF<br>221–230 DTW ON<br>231–255 No Function |