DMX REFERENCE

# MAC One Beam

Martin Professional



| | |
|---|---|
| **Manufacturer** | Martin Professional |
| **GDTF file** | Martin_Professional_MAC_One_Beam_166175.gdtf |
| **GDTF revision** | 20261021_MAWorkAround · 2026-10-26 |
| **Generated** | 2026-11-24 |

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# 1 About this manual

This document describes the MAC One Beam by Martin Professional. It was compiled from the GDTF file Martin_Professional_MAC_One_Beam_166175.gdtf from the GDTF-Share library.

File revision: “20261021_MAWorkAround”.

The DMX modes, the channel functions and the technical data are given as the GDTF file states them. Installation, operation from the device's control panel, service and safety instructions are described in the manufacturer's original user manual, which takes precedence over this document.

This document was not issued or endorsed by Martin Professional; product names and trademarks belong to their owners.

Safety notices are marked with signal words according to the severity of the hazard: DANGER – an imminent hazard that will result in death or serious injury; WARNING – a potential hazard that could result in death or serious injury; CAUTION – a potential hazard that could result in minor injury or property damage; NOTE – additional information for correct and safe use.

> **NOTE** This product is designed for stage and effect lighting. It is not suitable for household room illumination.

# 2 Quick reference

| Parameter | Value |
|---|---|
| Power consumption | 45 W |
| Weight | 5 kg |

### DMX modes

| Mode | Channels | Units in one universe | First start addresses |
|---|---|---|---|
| Compact | 19 | 26 | 1, 20, 39, 58, ... |
| Basic | 35 | 14 | 1, 36, 71, 106, ... |
| Ludicrous | 107 | 4 | 1, 108, 215, 322 |

### No light? Check these channels

- Compact: CH 1 Shutter at 20–49 or 201–210 “Open”; CH 2 Dimmer above 0
- Basic: CH 1 Shutter 1 at 20–49 or 201–210 “Open”; CH 2 Dimmer 1 above 0; CH 26 Shutter 2 at 20–49 or 201–210 “Open”; CH 27 Dimmer 2 above 0
- Ludicrous: CH 1 Shutter 1 at 20–49 or 201–210 “Open”; CH 2 Dimmer 1 above 0; CH 26 Shutter 2 at 20–49 or 201–210 “Open”; CH 27 Dimmer 2 above 0


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

# 3 Safety instructions


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

**⚠ WARNING**

- This device is intended for professional use. Installation, connection, setup and maintenance must be carried out only by suitably qualified persons who have read this manual.
- Use the device only for its intended purpose and as described in this manual.
- Do not open the housing and do not modify or tamper with the device. Refer all repairs to an authorized service center.
- Do not use the device if its housing, power or data cable, or a connector is damaged, if the device has been dropped, or if liquid or a foreign object has entered it. In such a case, have it checked by a service center.
- Disconnect the device from the power supply before cleaning, maintenance or any work on the connections.
- After moving the device from a cold to a warm environment, let it reach room temperature before switching it on to prevent condensation inside.
- The device is not a toy; keep it out of the reach of children.

**⚠ WARNING**

- Connect the device only to a properly installed mains outlet with a protective earth (ground) contact. The outlet or other means of disconnection must remain easily accessible.
- Power supply: 100–240 V, 50/60 Hz. Before connecting, make sure that the mains voltage matches this value and the value on the rating plate of the device.
- Do not connect the device to a dimmer or to a dimmed circuit.
- Use only the original power cable or a cable with identical ratings. Protect the cable from damage, do not run it over sharp edges, and never unplug it by pulling on the cable.
- When connecting several devices to one circuit, do not exceed its permitted load.
- Do not touch the device with wet hands.

**⚠ WARNING**

- This device is designed for indoor use only. Protect it from rain, splashing water, moisture and dust, and do not place containers with liquids on it.
- Do not operate the device in high humidity, near water, or where condensation can form on it.

**⚠ CAUTION**

- This device emits intense light. Do not look directly into the light source or the beam at close range; doing so may damage your eyes.
- Do not aim the beam at the eyes of people or animals at close range, and do not view the light source through optical instruments (binoculars, camera lenses).
- Do not aim the beam at flammable or heat-sensitive materials at close range.

> ⚠ **CAUTION**
>
> - Strobe and fast flashing light effects can trigger epileptic seizures in susceptible people (photosensitive epilepsy) and can cause nausea or disorientation.
> - Inform the audience and performers in advance that strobe effects will be used, for example with a notice at the entrance, and do not use them longer than necessary.

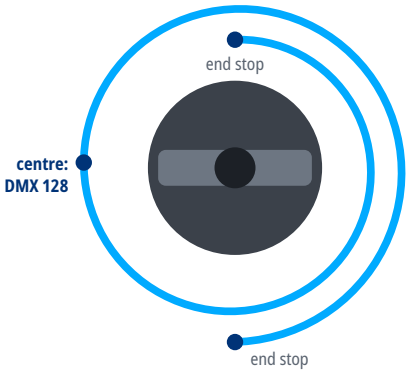
> ⚠ **WARNING**
>
> - The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
> - Keep yourself and any objects out of the range of movement. While the device is switched on, do not touch the moving parts, move them by hand, or obstruct their movement; this can cause injury (pinching) and damage the drive.
> - Do not carry the device by its moving parts. If the device has a transport lock, engage it before transport and release it before switching on.

# 4 Product description

### Range of movement

**Pan 540°**

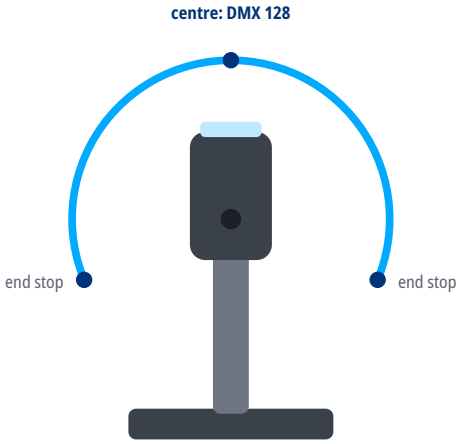
top view




**full travel in 1.7 s**

**Tilt 225°**

side view




**full travel in 0.7 s**

Full-travel times as stated in the GDTF file.

# 5 Installation

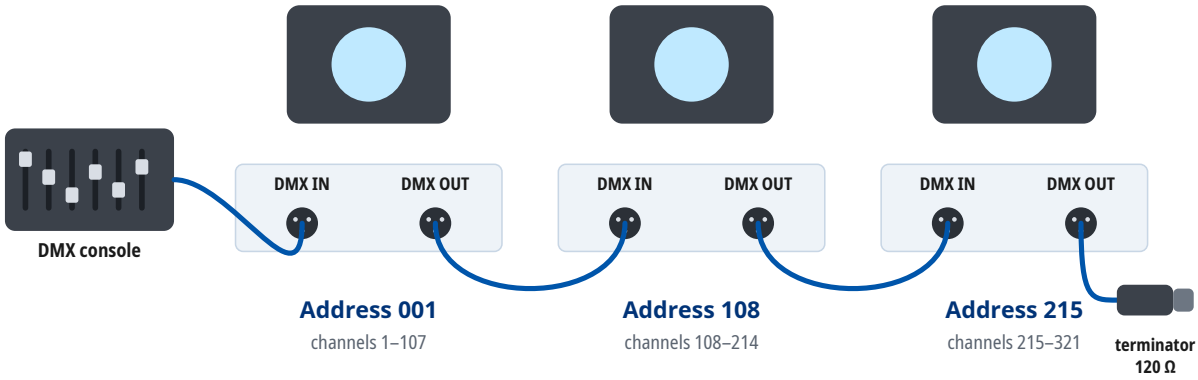
**⚠ WARNING**

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 4.95 kg.
- Use suitable mounting hardware (for example truss clamps) and tighten all screw connections properly.
- Always secure the suspended device against falling with a safety cable of adequate load capacity, routed through a fixed point of the device and around the supporting structure.
- During installation and removal, keep people out of the area below the work position.
- Regularly inspect the fixings and the safety cable for damage, corrosion and loosening.

# 6 Connections

- Use shielded cable designed for DMX512 with an impedance of 110 Ω. Ordinary microphone cable is not suitable for DMX, especially over longer distances.
- Connect the devices in a daisy chain: connect the DMX OUT of one device to the DMX IN of the next. Do not split the line with Y-cables or wire it in a star; the line may be split only with a DMX splitter.
- Connect the shield to pin 1 only. Do not connect the shield (ground) to the metal shell of the connector; this can cause short circuits or erratic behavior.
- XLR pin assignment: pin 1 – shield (ground), pin 2 – Data- (Data Complement), pin 3 – Data+ (Data True). On 5-pin connectors, pins 4 and 5 are not connected; a 5-pin connector can be connected to a 3-pin one with a cable adapter.
- Terminate the end of the line (for impedance matching): plug an XLR connector with a 120 Ω, ¼ W resistor between pins 2 and 3 into the DMX OUT of the last device. This reduces the risk of erratic behavior.
- Connect no more than 32 devices to one DMX line. For more devices or longer runs, use a DMX splitter or booster.

### DMX line




Mode Ludicrous: every unit occupies 107 channels from its address. At most 32 units on one line; for more units or longer runs use a DMX splitter. A 120 Ω terminator closes the last DMX OUT.

# 7 Operation

### Setting the DMX address

- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Ludicrous”: 107.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in the DMX mode “Ludicrous”, you can use, for example, the start addresses 1, 108, 215, 322.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.
- The device supports RDM (Remote Device Management), two-way communication with the controller over the DMX line.

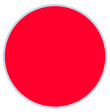
# 8 Functions at a glance

### Functions in each DMX mode

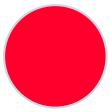
| | Compact<br>19 channels | Basic<br>35 channels | Ludicrous<br>107 channels |
|---|---|---|---|
| Pan / Tilt | 13, 15 | 13, 15 | 13, 15 |
| Dimmer | 2 | 2, 27 | 2, 27 |
| Shutter / strobe | 1 | 1, 26 | 1, 26 |
| Color mixing | 4, 6, 8 | 6 channels (4–31) | 78 channels (4–107) |
| Color temperature | 10 | 10, 32 | 10, 32 |
| Color wheel | 12 | 12, 34 | 12, 34 |
| Effects / macros | | 21–25 | 21–25 |
| Pixel control | | | 24 cells |

## Color wheel 1

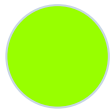
1 
Color Selection: White 1
**DMX 0**

2 
Color Selection: Red 1
**DMX 1**

3 
Color Selection: Yellow 1
**DMX 2**

4 
Red 1 Out

5 
Light Cyan Out

6 
Color Selection: Lime
**DMX 3**

7 
Color Selection: Light Cyan
**DMX 4**

8 
Color Selection: Purple
**DMX 5**

9 
Color Selection: Blue 2
**DMX 6**

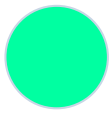
10 
Color Selection: Cyan 2
**DMX 7**

11 
Split 5
**DMX 43–45**

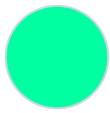
12 
Color Selection: White 2
**DMX 8**

13 
Split 6
**DMX 47–49**

14 
White 2 Out

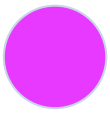
15 
Color Selection: Green 1
**DMX 9**

16 
Color Selection: Cyan 1
**DMX 10**

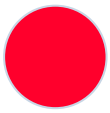
17 
Green 1 Out

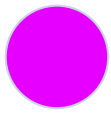
18 
Light Magenta Out

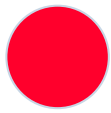
19 
Color Selection: Azure
**DMX 11**

20 
Color Selection: Light Magenta
**DMX 12**

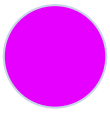
21 
Color Selection: Orange
**DMX 13**

22 
Color Selection: Red 2
**DMX 14**

23 
Color Selection: Magenta 2
**DMX 15**

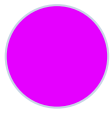
24 
Split 11
**DMX 69–71**

25 
Color Selection: White 3
**DMX 16**

26 
Split 12
**DMX 73–75**

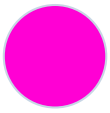
27 
White 3 Out

28 
Color Selection: Blue 1
**DMX 17**

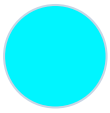
29 
Color Selection: Magenta 1
**DMX 18**

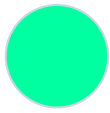
30 
Blue 1 Out

31 
Light Yellow Out

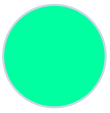
32 
Color Selection: Pink
**DMX 19**

33 
Color Selection: Light Yellow
**DMX 20**

34 
Color Selection: Spring Green
**DMX 21**

35 
Color Selection: Green 2
**DMX 22**

36 
Yellow 2
**DMX 23–24**

37 
Split 17
**DMX 95–97**

38 
White 4
**DMX 102–103**

39 
Split 18
**DMX 99–101**

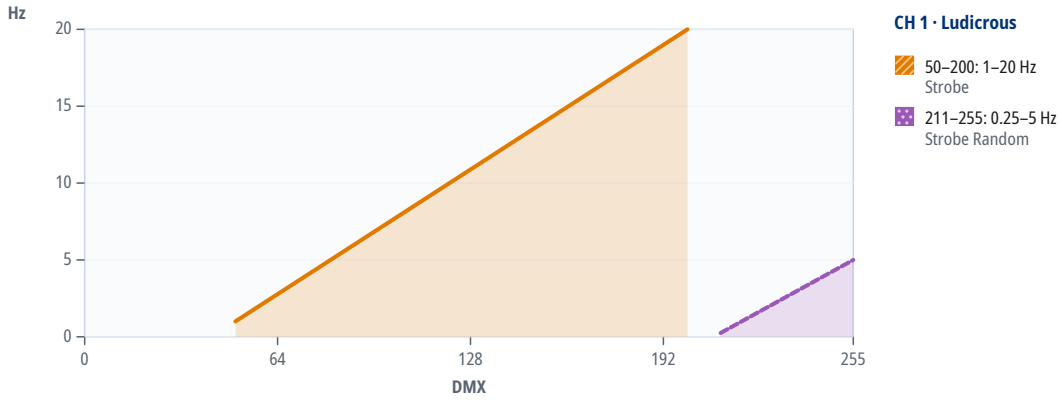
## Color wheel 2

1. Color Selection: Open — DMX 0–10
2. Moroccan Pink — DMX 11–12
3. Pink — DMX 13–14
4. Special Rose Pink — DMX 15–16
5. Follies Pink — DMX 17–18
6. Fuchsia Pink — DMX 19–20
7. Surprise Pink — DMX 21–22
8. Congo Blue — DMX 23–24
9. Tokyo Blue — DMX 25–26
10. Deep Blue — DMX 27–28
11. Just Blue — DMX 29–30
12. Medium Blue — DMX 31–32
13. Double CT Blue — DMX 33–34
14. Slate Blue — DMX 35–36
15. Full CT Blue — DMX 37–38
16. Half CT Blue — DMX 39–40
17. Steel Blue — DMX 41–42
18. Lighter Blue — DMX 43–44
19. Light Blue — DMX 45–46
20. Medium Blue Green — DMX 47–48
21. Dark Green — DMX 49–50
22. Primary Green — DMX 51–52
23. Moss Green — DMX 53–54
24. Fern Green — DMX 55–56
25. Jas Green — DMX 57–58
26. Lime Green — DMX 59–60
27. Spring Yellow — DMX 61–62
28. Deep Amber — DMX 63–64
29. Chrome Orange — DMX 65–66
30. Orange — DMX 67–68
31. Gold Amber — DMX 69–70
32. Millennium Gold — DMX 71–72
33. Deep Golden Amber — DMX 73–74
34. Flame Red — DMX 75–76
35. Red Magenta — DMX 77–78
36. Medium Lavender — DMX 79–80
37. Pure White — DMX 81–82
38. Pure Red — DMX 83–84
39. Pure Yellow — DMX 85–86
40. Pure Green — DMX 87–88
41. Pure Cyan — DMX 89–90
42. Pure Blue — DMX 91–92
43. Pure Magenta — DMX 93–94
44. Peacock Blue — DMX 95–96
45. Dark Lavender — DMX 97–98
46. Double CT Orange — DMX 99–100
47. Full CT Orange — DMX 101–102
48. Half CT Orange — DMX 103–104

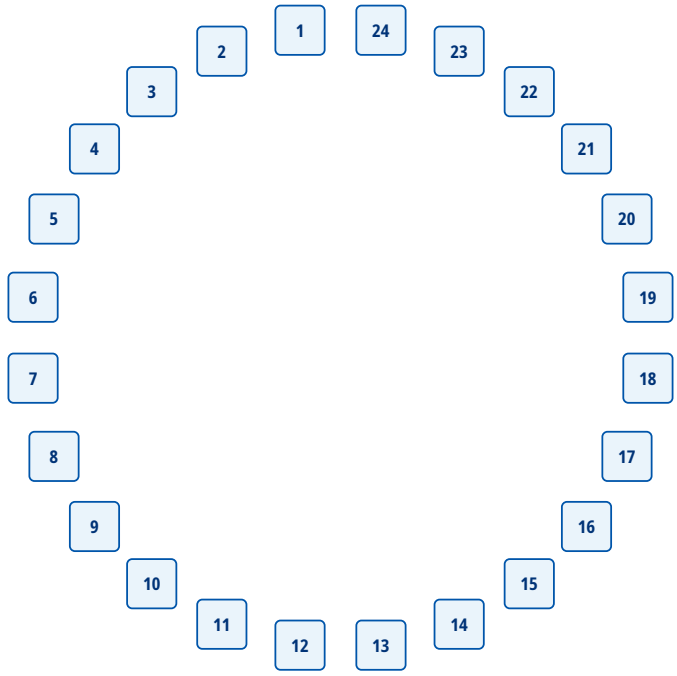
49

Deep Straw
DMX 105–107

## Strobe rate



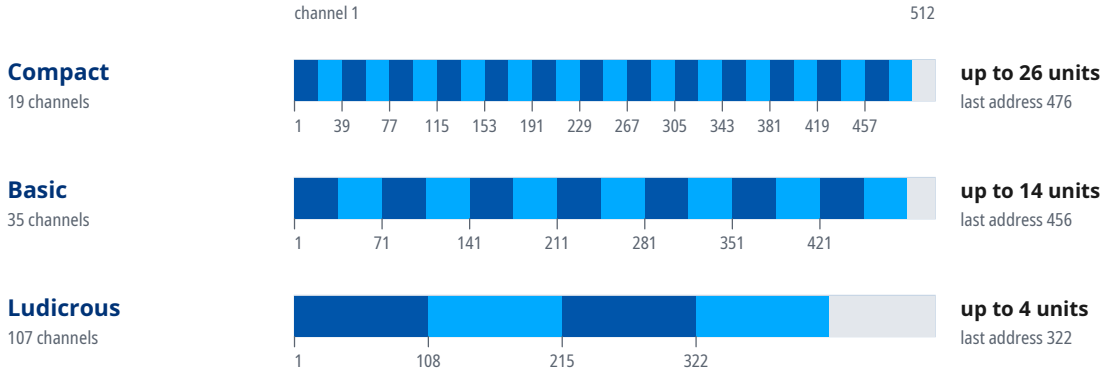

## Cells (pixels)




Cells where the GDTF file places them (seen from above), 24 in all; numbered in the order of their first DMX channel in the mode “Ludicrous”.

# 9 DMX channels

### Units in one DMX universe




### Start addresses of 20 units in the mode “Ludicrous”

| Unit | Start address | Unit | Start address | Unit | Start address | Unit | Start address |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 6 | U2 · 108 | 11 | U3 · 215 | 16 | U4 · 322 |
| 2 | 108 | 7 | U2 · 215 | 12 | U3 · 322 | 17 | U5 · 1 |
| 3 | 215 | 8 | U2 · 322 | 13 | U4 · 1 | 18 | U5 · 108 |
| 4 | 322 | 9 | U3 · 1 | 14 | U4 · 108 | 19 | U5 · 215 |
| 5 | U2 · 1 | 10 | U3 · 108 | 15 | U4 · 215 | 20 | U5 · 322 |

Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

### RDM personalities

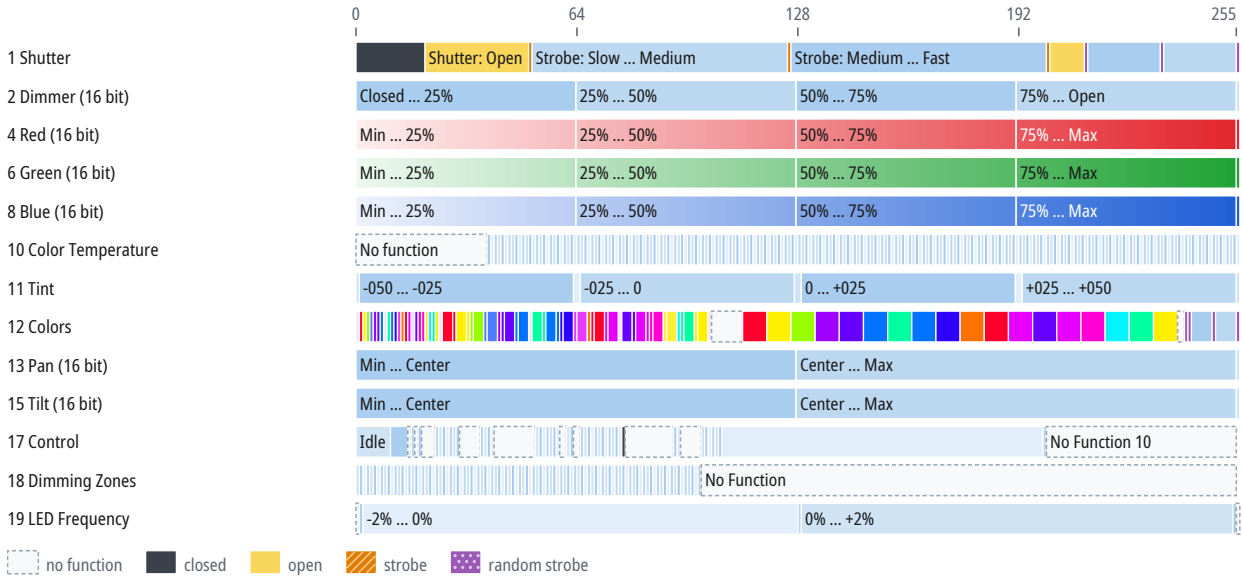
| Mode | Channels | RDM personality |
|---|---|---|
| Compact | 19 | 1 |
| Basic | 35 | 2 |
| Ludicrous | 107 | 3 |

## Mode Compact

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Shutter at 20–49 or 201–210 “Open”; CH 2 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Shutter 30, CH 2 Dimmer 255, CH 4 Red 255, CH 6 Green 255, CH 8 Blue 255, CH 10 Color Temperature 148, CH 12 Colors 0.

### Channel functions at a glance




| CH | Function | DMX | Description |
|---|---|---|---|
| **1** | Shutter | 0–19 | Shutter: Closed |
| | | 20–49 | Shutter: Open |
| | | 50 | Strobe: Slow |
| | | 51–124 | Strobe: Slow ... Medium |
| | | 125 | Strobe: Medium |
| | | 126–199 | Strobe: Medium ... Fast |
| | | 200 | Strobe: Fast |
| | | 201–210 | Shutter: Open |
| | | 211 | Strobe Random: Slow |
| | | 212–232 | Strobe Random: Slow ... Medium |
| | | 233 | Strobe Random: Medium |
| | | 234–254 | Strobe Random: Medium ... Fast |
| | | 255 | Strobe Random: Fast |
| **2** | Dimmer | 0–63 | Closed ... 25% |
| | | 64–127 | 25% ... 50% |
| | | 128–191 | 50% ... 75% |
| | | 192–255 | 75% ... Open |
| | | 255 | Open |
| **3** | Dimmer Fine | 0–255 | Fine adjustment of CH 2 |
| **4** | Red | 0–63 | Min ... 25% |

| CH | Function | DMX | Description |
|---|---|---|---|
| **4** | Red (continued) | 64–127 | 25% … 50% |
| | | 128–191 | 50% … 75% |
| | | 192–255 | 75% … Max |
| | | 255 | Max |
| **5** | Red Fine | 0–255 | Fine adjustment of CH 4 |
| **6** | Green | 0–63 | Min … 25% |
| | | 64–127 | 25% … 50% |
| | | 128–191 | 50% … 75% |
| | | 192–255 | 75% … Max |
| | | 255 | Max |
| **7** | Green Fine | 0–255 | Fine adjustment of CH 6 |
| **8** | Blue | 0–63 | Min … 25% |
| | | 64–127 | 25% … 50% |
| | | 128–191 | 50% … 75% |
| | | 192–255 | 75% … Max |
| | | 255 | Max |
| **9** | Blue Fine | 0–255 | Fine adjustment of CH 8 |
| **10** | Color Temperature | 0–37 | No function |
| | | 38 | 2000K |
| | | 39 | 2050K |
| | | 40 | 2100K |
| | | 41 | 2150K |
| | | 42 | 2200K |
| | | 43 | 2250K |
| | | 44 | 2300K |
| | | 45 | 2350K |
| | | 46 | 2400K |
| | | 47 | 2450K |
| | | 48 | 2500K |
| | | 49 | 2550K |
| | | 50 | 2600K |
| | | 51 | 2650K |
| | | 52 | 2700K |
| | | 53 | 2750K |
| | | 54 | 2800K |
| | | 55 | 2850K |
| | | 56 | 2900K |
| | | 57 | 2950K |
| | | 58 | 3000K |
| | | 59 | 3050K |
| | | 60 | 3100K |
| | | 61 | 3150K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Color Temperature (continued) | 62 | 3200K |
| | | 63 | 3250K |
| | | 64 | 3300K |
| | | 65 | 3350K |
| | | 66 | 3400K |
| | | 67 | 3450K |
| | | 68 | 3500K |
| | | 69 | 3550K |
| | | 70 | 3600K |
| | | 71 | 3650K |
| | | 72 | 3700K |
| | | 73 | 3750K |
| | | 74 | 3800K |
| | | 75 | 3850K |
| | | 76 | 3900K |
| | | 77 | 3950K |
| | | 78 | 4000K |
| | | 79 | 4050K |
| | | 80 | 4100K |
| | | 81 | 4150K |
| | | 82 | 4200K |
| | | 83 | 4250K |
| | | 84 | 4300K |
| | | 85 | 4350K |
| | | 86 | 4400K |
| | | 87 | 4450K |
| | | 88 | 4500K |
| | | 89 | 4550K |
| | | 90 | 4600K |
| | | 91 | 4650K |
| | | 92 | 4700K |
| | | 93 | 4750K |
| | | 94 | 4800K |
| | | 95 | 4850K |
| | | 96 | 4900K |
| | | 97 | 4950K |
| | | 98 | 5000K |
| | | 99 | 5050K |
| | | 100 | 5100K |
| | | 101 | 5150K |
| | | 102 | 5200K |
| | | 103 | 5250K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Color Temperature (continued) | 104 | 5300K |
| | | 105 | 5350K |
| | | 106 | 5400K |
| | | 107 | 5450K |
| | | 108 | 5500K |
| | | 109 | 5550K |
| | | 110 | 5600K |
| | | 111 | 5650K |
| | | 112 | 5700K |
| | | 113 | 5750K |
| | | 114 | 5800K |
| | | 115 | 5850K |
| | | 116 | 5900K |
| | | 117 | 5950K |
| | | 118 | 6000K |
| | | 119 | 6050K |
| | | 120 | 6100K |
| | | 121 | 6150K |
| | | 122 | 6200K |
| | | 123 | 6250K |
| | | 124 | 6300K |
| | | 125 | 6350K |
| | | 126 | 6400K |
| | | 127 | 6450K |
| | | 128 | 6500K |
| | | 129 | 6550K |
| | | 130 | 6600K |
| | | 131 | 6650K |
| | | 132 | 6700K |
| | | 133 | 6750K |
| | | 134 | 6800K |
| | | 135 | 6850K |
| | | 136 | 6900K |
| | | 137 | 6950K |
| | | 138 | 7000K |
| | | 139 | 7050K |
| | | 140 | 7100K |
| | | 141 | 7150K |
| | | 142 | 7200K |
| | | 143 | 7250K |
| | | 144 | 7300K |
| | | 145 | 7350K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Color Temperature (continued) | 146 | 7400K |
| | | 147 | 7450K |
| | | 148 | 7500K |
| | | 149 | 7550K |
| | | 150 | 7600K |
| | | 151 | 7650K |
| | | 152 | 7700K |
| | | 153 | 7750K |
| | | 154 | 7800K |
| | | 155 | 7850K |
| | | 156 | 7900K |
| | | 157 | 7950K |
| | | 158 | 8000K |
| | | 159 | 8050K |
| | | 160 | 8100K |
| | | 161 | 8150K |
| | | 162 | 8200K |
| | | 163 | 8250K |
| | | 164 | 8300K |
| | | 165 | 8350K |
| | | 166 | 8400K |
| | | 167 | 8450K |
| | | 168 | 8500K |
| | | 169 | 8550K |
| | | 170 | 8600K |
| | | 171 | 8650K |
| | | 172 | 8700K |
| | | 173 | 8750K |
| | | 174 | 8800K |
| | | 175 | 8850K |
| | | 176 | 8900K |
| | | 177 | 8950K |
| | | 178 | 9000K |
| | | 179 | 9050K |
| | | 180 | 9100K |
| | | 181 | 9150K |
| | | 182 | 9200K |
| | | 183 | 9250K |
| | | 184 | 9300K |
| | | 185 | 9350K |
| | | 186 | 9400K |
| | | 187 | 9450K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Color Temperature (continued) | 188 | 9500K |
| | | 189 | 9550K |
| | | 190 | 9600K |
| | | 191 | 9650K |
| | | 192 | 9700K |
| | | 193 | 9750K |
| | | 194 | 9800K |
| | | 195 | 9850K |
| | | 196 | 9900K |
| | | 197 | 9950K |
| | | 198 | 10000K |
| | | 199 | 10050K |
| | | 200 | 10100K |
| | | 201 | 10150K |
| | | 202 | 10200K |
| | | 203 | 10250K |
| | | 204 | 10300K |
| | | 205 | 10350K |
| | | 206 | 10400K |
| | | 207 | 10450K |
| | | 208 | 10500K |
| | | 209 | 10550K |
| | | 210 | 10600K |
| | | 211 | 10650K |
| | | 212 | 10700K |
| | | 213 | 10750K |
| | | 214 | 10800K |
| | | 215 | 10850K |
| | | 216 | 10900K |
| | | 217 | 10950K |
| | | 218 | 11000K |
| | | 219 | 11050K |
| | | 220 | 11100K |
| | | 221 | 11150K |
| | | 222 | 11200K |
| | | 223 | 11250K |
| | | 224 | 11300K |
| | | 225 | 11350K |
| | | 226 | 11400K |
| | | 227 | 11450K |
| | | 228 | 11500K |
| | | 229 | 11550K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Color Temperature (continued) | 230 | 11600K |
| | | 231 | 11650K |
| | | 232 | 11700K |
| | | 233 | 11750K |
| | | 234 | 11800K |
| | | 235 | 11850K |
| | | 236 | 11900K |
| | | 237 | 11950K |
| | | 238 | 12000K |
| | | 239 | 12050K |
| | | 240 | 12100K |
| | | 241 | 12150K |
| | | 242 | 12200K |
| | | 243 | 12250K |
| | | 244 | 12300K |
| | | 245 | 12350K |
| | | 246 | 12400K |
| | | 247 | 12450K |
| | | 248 | 12500K |
| | | 249 | 12550K |
| | | 250 | 12600K |
| | | 251 | 12650K |
| | | 252 | 12700K |
| | | 253 | 12750K |
| | | 254 | 12800K |
| | | 255 | 12850K |
| **11** | Tint | 0 | -050 |
| | | 1–62 | -050 … -025 |
| | | 63–64 | -025 |
| | | 65–126 | -025 … 0 |
| | | 127–128 | 0 |
| | | 129–190 | 0 … +025 |
| | | 191–192 | +025 |
| | | 193–254 | +025 … +050 |
| | | 255 | +050 |
| **12** | Colors | 0 | Color Selection: White 1 |
| | | 1 | Color Selection: Red 1 |
| | | 2 | Color Selection: Yellow 1 |
| | | 3 | Color Selection: Lime |
| | | 4 | Color Selection: Light Cyan |
| | | 5 | Color Selection: Purple |
| | | 6 | Color Selection: Blue 2 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **12** | Colors (continued) | 7 | Color Selection: Cyan 2 |
| | | 8 | Color Selection: White 2 |
| | | 9 | Color Selection: Green 1 |
| | | 10 | Color Selection: Cyan 1 |
| | | 11 | Color Selection: Azure |
| | | 12 | Color Selection: Light Magenta |
| | | 13 | Color Selection: Orange |
| | | 14 | Color Selection: Red 2 |
| | | 15 | Color Selection: Magenta 2 |
| | | 16 | Color Selection: White 3 |
| | | 17 | Color Selection: Blue 1 |
| | | 18 | Color Selection: Magenta 1 |
| | | 19 | Color Selection: Pink |
| | | 20 | Color Selection: Light Yellow |
| | | 21 | Color Selection: Spring Green |
| | | 22 | Color Selection: Green 2 |
| | | 23 | Color Selection: Yellow 2 |
| | | 24 | Color Split: White 1 |
| | | 25–27 | Split 1 |
| | | 28 | Color Split: Red 1 |
| | | 29–31 | Split 2 |
| | | 32 | Color Split: Yellow 1 |
| | | 33 | Color Split: Lime |
| | | 34–36 | Split 3 |
| | | 37 | Color Split: Light Cyan |
| | | 38–40 | Split 4 |
| | | 41 | Color Split: Purple |
| | | 42 | Color Split: Blue 2 |
| | | 43–45 | Split 5 |
| | | 46 | Color Split: Cyan 2 |
| | | 47–49 | Split 6 |
| | | 50 | Color Split: White 2 |
| | | 51–53 | Split 7 |
| | | 54 | Color Split: Green 1 |
| | | 55–57 | Split 8 |
| | | 58 | Color Split: Cyan 1 |
| | | 59 | Color Split: Azure |
| | | 60–62 | Split 9 |
| | | 63 | Color Split: Light Magenta |
| | | 64–66 | Split 10 |
| | | 67 | Color Split: Orange |
| | | 68 | Color Split: Red 2 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **12** | Colors (continued) | 69–71 | Split 11 |
| | | 72 | Color Split: Magenta 2 |
| | | 73–75 | Split 12 |
| | | 76 | Color Split: White 3 |
| | | 77–79 | Split 13 |
| | | 80 | Color Split: Blue 1 |
| | | 81–83 | Split 14 |
| | | 84 | Color Split: Magenta 1 |
| | | 85 | Color Split: Pink |
| | | 86–88 | Split 15 |
| | | 89 | Color Split: Light Yellow |
| | | 90–92 | Split 16 |
| | | 93 | Color Split: Spring Green |
| | | 94 | Color Split: Green 2 |
| | | 95–97 | Split 17 |
| | | 98 | Color Split: Yellow 2 |
| | | 99–101 | Split 18 |
| | | 102 | White 4 |
| | | 103–111 | No Function 1 |
| | | 112–118 | White - Red (0.09–2.55 Hz) |
| | | 119–125 | Yellow - Red (0.09–2.55 Hz) |
| | | 126–132 | Light Cyan - Lime (0.09–2.55 Hz) |
| | | 133–139 | Light Cyan - Purple (0.09–2.55 Hz) |
| | | 140–146 | Cyan - Blue (0.09–2.55 Hz) |
| | | 147–153 | White - Cyan (0.09–2.55 Hz) |
| | | 154–160 | White - Green (0.09–2.55 Hz) |
| | | 161–167 | Cyan - Green (0.09–2.55 Hz) |
| | | 168–174 | Light Magenta - Azure (0.09–2.55 Hz) |
| | | 175–181 | Light Magenta - Orange (0.09–2.55 Hz) |
| | | 182–188 | Magenta - Red (0.09–2.55 Hz) |
| | | 189–195 | White - Magenta (0.09–2.55 Hz) |
| | | 196–202 | White - Blue (0.09–2.55 Hz) |
| | | 203–209 | Magenta - Blue (0.09–2.55 Hz) |
| | | 210–216 | Light Yellow - Pink (0.09–2.55 Hz) |
| | | 217–223 | Light Yellow - Spring Green (0.09–2.55 Hz) |
| | | 224–230 | Yellow - Green (0.09–2.55 Hz) |
| | | 231–237 | White - Yellow (0.09–2.55 Hz) |
| | | 238–239 | No Function 2 |
| | | 240 | Color Random: Stop |
| | | 241 | Color Random: Min |
| | | 242–247 | Min ... Med |
| | | 248 | Med |

| CH | Function | DMX | Description |
|---|---|---|---|
| **12** | Colors (continued) | 249–254 | Med ... Max |
| | | 255 | Color Random: Max |
| **13** | Pan | 0–127 | Min ... Center |
| | | 128–255 | Center ... Max |
| | | 255 | Max |
| **14** | Pan Fine | 0–255 | Fine adjustment of CH 13 |
| **15** | Tilt | 0–127 | Min ... Center |
| | | 128–255 | Center ... Max |
| | | 255 | Max |
| **16** | Tilt Fine | 0–255 | Fine adjustment of CH 15 |
| **17** | Control | 0–9 | Idle |
| | | 10–14 | Reset Entire Fixture (5s) |
| | | 15 | No Function 1 |
| | | 16 | Reset Color Only (5s) |
| | | 17 | No Function 2 |
| | | 18 | Reset Pan and Tilt Only (5s) |
| | | 19–22 | No Function 3 |
| | | 23 | Linear (1s) |
| | | 24 | Square Law (1s) |
| | | 25 | Inverse Square Law (1s) |
| | | 26 | S-Curve (1s) |
| | | 27 | Standard (1s) |
| | | 28 | Pan and Tilt Speed: Fast (1s) |
| | | 29 | Smooth (1s) |
| | | 30–35 | No Function 4 |
| | | 36 | Video Tracking: Enable (1s) |
| | | 37 | Video Tracking: Disable (1s) |
| | | 38 | Extended Gamut (1s) |
| | | 39 | Calibrated Color (1s) |
| | | 40–51 | No Function 5 |
| | | 52 | Control Panel Display: On (1s) |
| | | 53 | Control Panel Display: Off (1s) |
| | | 54 | Regulated (1s) |
| | | 55 | Constant Full (1s) |
| | | 56 | Constant Medium (1s) |
| | | 57 | Constant Low (1s) |
| | | 58 | Constant Ultra Low (1s) |
| | | 59–60 | No Function 6 |
| | | 61 | Hibernation Mode: Enable (5s) |
| | | 62 | Hibernation Mode: Disable (5s) |
| | | 63–64 | No Function 7 |
| | | 65 | Pan and Tilt Limits: Enable (5s) |

| CH | Function | DMX | Description |
|---|---|---|---|
| **17** | Control (continued) | 66 | Pan and Tilt Limits: Disable (5s) |
| | | 67 | Store Lower Pan Limit (5s) |
| | | 68 | Store Upper Pan Limit (5s) |
| | | 69 | Store Lower Tilt Limit (5s) |
| | | 70 | Store Upper Tilt Limit (5s) |
| | | 71 | Reset (5s) |
| | | 72 | Tungsten Emulation: Enable (1s) |
| | | 73 | Tungsten Emulation: Disable (1s) |
| | | 74 | Record Current Look (5s) |
| | | 75 | Offline Run Stand-Alone Show (5s) |
| | | 76 | Offline Hold Last Look (5s) |
| | | 77 | Offline Blackout (5s) |
| | | 78–91 | No Function 8 |
| | | 92 | Compact Mode Backlight: Enable (1s) |
| | | 93 | Compact Mode Backlight: Disable (1s) |
| | | 94–99 | No Function 9 |
| | | 100 | Enable Calibration (5s) |
| | | 101 | Store Pan and Tilt Calibration (5s) |
| | | 102 | Store Dimmer Calibration (5s) |
| | | 103 | Store Cyan Calibration (5s) |
| | | 104 | Store Magenta Calibration (5s) |
| | | 105 | Store Yellow Calibration (5s) |
| | | 106–198 | Store Yellow Calibration (5s) ... Reset All Calibration To Factory Default (5s) |
| | | 199 | Reset All Calibration To Factory Default (5s) |
| | | 200–255 | No Function 10 |
| **18** | Dimming Zones | 0 | Idle |
| | | 1 | Enable All (1s) |
| | | 2 | Disable All (1s) |
| | | 3 | Erase All (5s) |
| | | 4 | Zone 1 Control: Enable Zone (1s) |
| | | 5 | Zone 1 Control: Disable Zone (1s) |
| | | 6 | Zone 1 Control: Erase Zone (5s) |
| | | 7 | Zone 1 Control: Program Corner A (1s) |
| | | 8 | Zone 1 Control: Program Corner B (1s) |
| | | 9 | Zone 1 Control: Program Corner C (1s) |
| | | 10 | Zone 1 Control: Program Corner D (1s) |
| | | 11 | Zone 1 Control: Go To Corner A |
| | | 12 | Zone 1 Control: Go To Corner B |
| | | 13 | Zone 1 Control: Go To Corner C |
| | | 14 | Zone 1 Control: Go To Corner D |
| | | 15 | Zone 1 Control: Show Zone |

| CH | Function | DMX | Description |
|---|---|---|---|
| **18** | Dimming Zones (continued) | 16 | Zone 2 Control: Enable Zone (1s) |
| | | 17 | Zone 2 Control: Disable Zone (1s) |
| | | 18 | Zone 2 Control: Erase Zone (5s) |
| | | 19 | Zone 2 Control: Program Corner A (1s) |
| | | 20 | Zone 2 Control: Program Corner B (1s) |
| | | 21 | Zone 2 Control: Program Corner C (1s) |
| | | 22 | Zone 2 Control: Program Corner D (1s) |
| | | 23 | Zone 2 Control: Go To Corner A |
| | | 24 | Zone 2 Control: Go To Corner B |
| | | 25 | Zone 2 Control: Go To Corner C |
| | | 26 | Zone 2 Control: Go To Corner D |
| | | 27 | Zone 2 Control: Show Zone |
| | | 28 | Zone 3 Control: Enable Zone (1s) |
| | | 29 | Zone 3 Control: Disable Zone (1s) |
| | | 30 | Zone 3 Control: Erase Zone (5s) |
| | | 31 | Zone 3 Control: Program Corner A (1s) |
| | | 32 | Zone 3 Control: Program Corner B (1s) |
| | | 33 | Zone 3 Control: Program Corner C (1s) |
| | | 34 | Zone 3 Control: Program Corner D (1s) |
| | | 35 | Zone 3 Control: Go To Corner A |
| | | 36 | Zone 3 Control: Go To Corner B |
| | | 37 | Zone 3 Control: Go To Corner C |
| | | 38 | Zone 3 Control: Go To Corner D |
| | | 39 | Zone 3 Control: Show Zone |
| | | 40 | Zone 4 Control: Enable Zone (1s) |
| | | 41 | Zone 4 Control: Disable Zone (1s) |
| | | 42 | Zone 4 Control: Erase Zone (5s) |
| | | 43 | Zone 4 Control: Program Corner A (1s) |
| | | 44 | Zone 4 Control: Program Corner B (1s) |
| | | 45 | Zone 4 Control: Program Corner C (1s) |
| | | 46 | Zone 4 Control: Program Corner D (1s) |
| | | 47 | Zone 4 Control: Go To Corner A |
| | | 48 | Zone 4 Control: Go To Corner B |
| | | 49 | Zone 4 Control: Go To Corner C |
| | | 50 | Zone 4 Control: Go To Corner D |
| | | 51 | Zone 4 Control: Show Zone |
| | | 52 | Zone 5 Control: Enable Zone (1s) |
| | | 53 | Zone 5 Control: Disable Zone (1s) |
| | | 54 | Zone 5 Control: Erase Zone (5s) |
| | | 55 | Zone 5 Control: Program Corner A (1s) |
| | | 56 | Zone 5 Control: Program Corner B (1s) |
| | | 57 | Zone 5 Control: Program Corner C (1s) |

| CH | Function | DMX | Description |
|---|---|---|---|
| **18** | Dimming Zones (continued) | 58 | Zone 5 Control: Program Corner D (1s) |
| | | 59 | Zone 5 Control: Go To Corner A |
| | | 60 | Zone 5 Control: Go To Corner B |
| | | 61 | Zone 5 Control: Go To Corner C |
| | | 62 | Zone 5 Control: Go To Corner D |
| | | 63 | Zone 5 Control: Show Zone |
| | | 64 | Zone 6 Control: Enable Zone (1s) |
| | | 65 | Zone 6 Control: Disable Zone (1s) |
| | | 66 | Zone 6 Control: Erase Zone (5s) |
| | | 67 | Zone 6 Control: Program Corner A (1s) |
| | | 68 | Zone 6 Control: Program Corner B (1s) |
| | | 69 | Zone 6 Control: Program Corner C (1s) |
| | | 70 | Zone 6 Control: Program Corner D (1s) |
| | | 71 | Zone 6 Control: Go To Corner A |
| | | 72 | Zone 6 Control: Go To Corner B |
| | | 73 | Zone 6 Control: Go To Corner C |
| | | 74 | Zone 6 Control: Go To Corner D |
| | | 75 | Zone 6 Control: Show Zone |
| | | 76 | Zone 7 Control: Enable Zone (1s) |
| | | 77 | Zone 7 Control: Disable Zone (1s) |
| | | 78 | Zone 7 Control: Erase Zone (5s) |
| | | 79 | Zone 7 Control: Program Corner A (1s) |
| | | 80 | Zone 7 Control: Program Corner B (1s) |
| | | 81 | Zone 7 Control: Program Corner C (1s) |
| | | 82 | Zone 7 Control: Program Corner D (1s) |
| | | 83 | Zone 7 Control: Go To Corner A |
| | | 84 | Zone 7 Control: Go To Corner B |
| | | 85 | Zone 7 Control: Go To Corner C |
| | | 86 | Zone 7 Control: Go To Corner D |
| | | 87 | Zone 7 Control: Show Zone |
| | | 88 | Zone 8 Control: Enable Zone (1s) |
| | | 89 | Zone 8 Control: Disable Zone (1s) |
| | | 90 | Zone 8 Control: Erase Zone (5s) |
| | | 91 | Zone 8 Control: Program Corner A (1s) |
| | | 92 | Zone 8 Control: Program Corner B (1s) |
| | | 93 | Zone 8 Control: Program Corner C (1s) |
| | | 94 | Zone 8 Control: Program Corner D (1s) |
| | | 95 | Zone 8 Control: Go To Corner A |
| | | 96 | Zone 8 Control: Go To Corner B |
| | | 97 | Zone 8 Control: Go To Corner C |
| | | 98 | Zone 8 Control: Go To Corner D |
| | | 99 | Zone 8 Control: Show Zone |

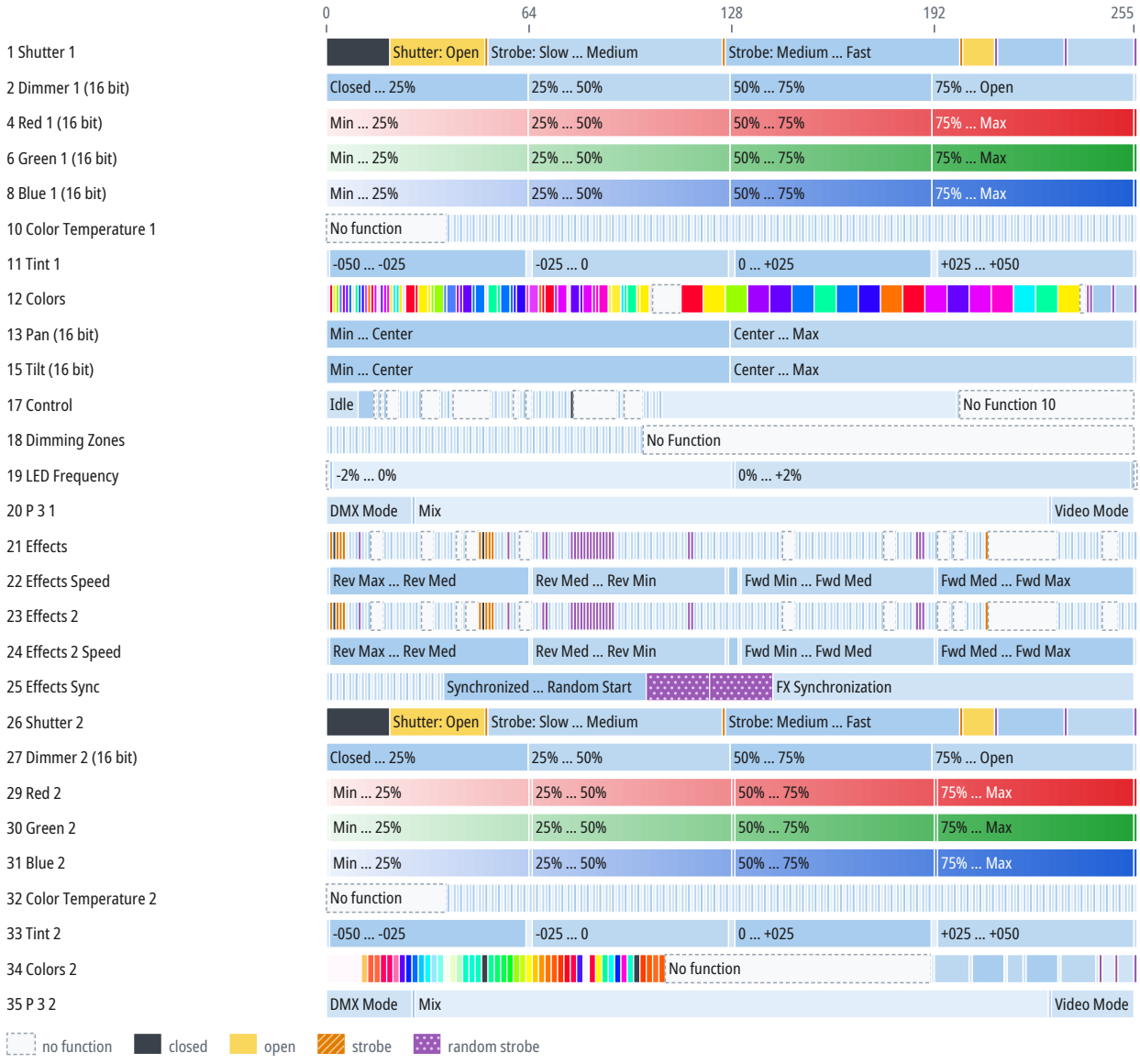
| CH | Function | DMX | Description |
|---|---|---|---|
| **18** | Dimming Zones (continued) | 100–255 | No Function |
| **19** | LED Frequency | 0 | No Function 1 |
| | | 1 | -2% |
| | | 2–127 | -2% … 0% |
| | | 128 | 0% |
| | | 129–253 | 0% … +2% |
| | | 254 | +2% |
| | | 255 | No Function 2 |

## Mode Basic

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Shutter 1 at 20–49 or 201–210 “Open”; CH 2 Dimmer 1 above 0; CH 26 Shutter 2 at 20–49 or 201–210 “Open”; CH 27 Dimmer 2 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Shutter 1 30, CH 2 Dimmer 1 255, CH 4 Red 1 255, CH 6 Green 1 255, CH 8 Blue 1 255, CH 10 Color Temperature 1 148, CH 12 Colors 0, CH 26 Shutter 2 30, CH 27 Dimmer 2 255, CH 29 Red 2 255, CH 30 Green 2 255, CH 31 Blue 2 255, CH 32 Color Temperature 2 128, CH 34 Colors 2 0.

### Channel functions at a glance




| CH | Function | DMX | Description |
|---|---|---|---|
| **1** | Shutter 1 | 0–19 | Shutter: Closed |
| | | 20–49 | Shutter: Open |
| | | 50 | Strobe: Slow |
| | | 51–124 | Strobe: Slow ... Medium |
| | | 125 | Strobe: Medium |

| CH | Function | DMX | Description |
|---|---|---|---|
| 1 | Shutter 1 (continued) | 126–199 | Strobe: Medium ... Fast |
| | | 200 | Strobe: Fast |
| | | 201–210 | Shutter: Open |
| | | 211 | Strobe Random: Slow |
| | | 212–232 | Strobe Random: Slow ... Medium |
| | | 233 | Strobe Random: Medium |
| | | 234–254 | Strobe Random: Medium ... Fast |
| | | 255 | Strobe Random: Fast |
| 2 | Dimmer 1 | 0–63 | Closed ... 25% |
| | | 64–127 | 25% ... 50% |
| | | 128–191 | 50% ... 75% |
| | | 192–255 | 75% ... Open |
| | | 255 | Open |
| 3 | Dimmer 1 Fine | 0–255 | Fine adjustment of CH 2 |
| 4 | Red 1 | 0–63 | Min ... 25% |
| | | 64–127 | 25% ... 50% |
| | | 128–191 | 50% ... 75% |
| | | 192–255 | 75% ... Max |
| | | 255 | Max |
| 5 | Red 1 Fine | 0–255 | Fine adjustment of CH 4 |
| 6 | Green 1 | 0–63 | Min ... 25% |
| | | 64–127 | 25% ... 50% |
| | | 128–191 | 50% ... 75% |
| | | 192–255 | 75% ... Max |
| | | 255 | Max |
| 7 | Green 1 Fine | 0–255 | Fine adjustment of CH 6 |
| 8 | Blue 1 | 0–63 | Min ... 25% |
| | | 64–127 | 25% ... 50% |
| | | 128–191 | 50% ... 75% |
| | | 192–255 | 75% ... Max |
| | | 255 | Max |
| 9 | Blue 1 Fine | 0–255 | Fine adjustment of CH 8 |
| 10 | Color Temperature 1 | 0–37 | No function |
| | | 38 | 2000K |
| | | 39 | 2050K |
| | | 40 | 2100K |
| | | 41 | 2150K |
| | | 42 | 2200K |
| | | 43 | 2250K |
| | | 44 | 2300K |
| | | 45 | 2350K |
| | | 46 | 2400K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Color Temperature 1 (continued) | 47 | 2450K |
| | | 48 | 2500K |
| | | 49 | 2550K |
| | | 50 | 2600K |
| | | 51 | 2650K |
| | | 52 | 2700K |
| | | 53 | 2750K |
| | | 54 | 2800K |
| | | 55 | 2850K |
| | | 56 | 2900K |
| | | 57 | 2950K |
| | | 58 | 3000K |
| | | 59 | 3050K |
| | | 60 | 3100K |
| | | 61 | 3150K |
| | | 62 | 3200K |
| | | 63 | 3250K |
| | | 64 | 3300K |
| | | 65 | 3350K |
| | | 66 | 3400K |
| | | 67 | 3450K |
| | | 68 | 3500K |
| | | 69 | 3550K |
| | | 70 | 3600K |
| | | 71 | 3650K |
| | | 72 | 3700K |
| | | 73 | 3750K |
| | | 74 | 3800K |
| | | 75 | 3850K |
| | | 76 | 3900K |
| | | 77 | 3950K |
| | | 78 | 4000K |
| | | 79 | 4050K |
| | | 80 | 4100K |
| | | 81 | 4150K |
| | | 82 | 4200K |
| | | 83 | 4250K |
| | | 84 | 4300K |
| | | 85 | 4350K |
| | | 86 | 4400K |
| | | 87 | 4450K |
| | | 88 | 4500K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Color Temperature 1 (continued) | 89 | 4550K |
| | | 90 | 4600K |
| | | 91 | 4650K |
| | | 92 | 4700K |
| | | 93 | 4750K |
| | | 94 | 4800K |
| | | 95 | 4850K |
| | | 96 | 4900K |
| | | 97 | 4950K |
| | | 98 | 5000K |
| | | 99 | 5050K |
| | | 100 | 5100K |
| | | 101 | 5150K |
| | | 102 | 5200K |
| | | 103 | 5250K |
| | | 104 | 5300K |
| | | 105 | 5350K |
| | | 106 | 5400K |
| | | 107 | 5450K |
| | | 108 | 5500K |
| | | 109 | 5550K |
| | | 110 | 5600K |
| | | 111 | 5650K |
| | | 112 | 5700K |
| | | 113 | 5750K |
| | | 114 | 5800K |
| | | 115 | 5850K |
| | | 116 | 5900K |
| | | 117 | 5950K |
| | | 118 | 6000K |
| | | 119 | 6050K |
| | | 120 | 6100K |
| | | 121 | 6150K |
| | | 122 | 6200K |
| | | 123 | 6250K |
| | | 124 | 6300K |
| | | 125 | 6350K |
| | | 126 | 6400K |
| | | 127 | 6450K |
| | | 128 | 6500K |
| | | 129 | 6550K |
| | | 130 | 6600K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Color Temperature 1 (continued) | 131 | 6650K |
| | | 132 | 6700K |
| | | 133 | 6750K |
| | | 134 | 6800K |
| | | 135 | 6850K |
| | | 136 | 6900K |
| | | 137 | 6950K |
| | | 138 | 7000K |
| | | 139 | 7050K |
| | | 140 | 7100K |
| | | 141 | 7150K |
| | | 142 | 7200K |
| | | 143 | 7250K |
| | | 144 | 7300K |
| | | 145 | 7350K |
| | | 146 | 7400K |
| | | 147 | 7450K |
| | | 148 | 7500K |
| | | 149 | 7550K |
| | | 150 | 7600K |
| | | 151 | 7650K |
| | | 152 | 7700K |
| | | 153 | 7750K |
| | | 154 | 7800K |
| | | 155 | 7850K |
| | | 156 | 7900K |
| | | 157 | 7950K |
| | | 158 | 8000K |
| | | 159 | 8050K |
| | | 160 | 8100K |
| | | 161 | 8150K |
| | | 162 | 8200K |
| | | 163 | 8250K |
| | | 164 | 8300K |
| | | 165 | 8350K |
| | | 166 | 8400K |
| | | 167 | 8450K |
| | | 168 | 8500K |
| | | 169 | 8550K |
| | | 170 | 8600K |
| | | 171 | 8650K |
| | | 172 | 8700K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Color Temperature 1 (continued) | 173 | 8750K |
| | | 174 | 8800K |
| | | 175 | 8850K |
| | | 176 | 8900K |
| | | 177 | 8950K |
| | | 178 | 9000K |
| | | 179 | 9050K |
| | | 180 | 9100K |
| | | 181 | 9150K |
| | | 182 | 9200K |
| | | 183 | 9250K |
| | | 184 | 9300K |
| | | 185 | 9350K |
| | | 186 | 9400K |
| | | 187 | 9450K |
| | | 188 | 9500K |
| | | 189 | 9550K |
| | | 190 | 9600K |
| | | 191 | 9650K |
| | | 192 | 9700K |
| | | 193 | 9750K |
| | | 194 | 9800K |
| | | 195 | 9850K |
| | | 196 | 9900K |
| | | 197 | 9950K |
| | | 198 | 10000K |
| | | 199 | 10050K |
| | | 200 | 10100K |
| | | 201 | 10150K |
| | | 202 | 10200K |
| | | 203 | 10250K |
| | | 204 | 10300K |
| | | 205 | 10350K |
| | | 206 | 10400K |
| | | 207 | 10450K |
| | | 208 | 10500K |
| | | 209 | 10550K |
| | | 210 | 10600K |
| | | 211 | 10650K |
| | | 212 | 10700K |
| | | 213 | 10750K |
| | | 214 | 10800K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Color Temperature 1 (continued) | 215 | 10850K |
| | | 216 | 10900K |
| | | 217 | 10950K |
| | | 218 | 11000K |
| | | 219 | 11050K |
| | | 220 | 11100K |
| | | 221 | 11150K |
| | | 222 | 11200K |
| | | 223 | 11250K |
| | | 224 | 11300K |
| | | 225 | 11350K |
| | | 226 | 11400K |
| | | 227 | 11450K |
| | | 228 | 11500K |
| | | 229 | 11550K |
| | | 230 | 11600K |
| | | 231 | 11650K |
| | | 232 | 11700K |
| | | 233 | 11750K |
| | | 234 | 11800K |
| | | 235 | 11850K |
| | | 236 | 11900K |
| | | 237 | 11950K |
| | | 238 | 12000K |
| | | 239 | 12050K |
| | | 240 | 12100K |
| | | 241 | 12150K |
| | | 242 | 12200K |
| | | 243 | 12250K |
| | | 244 | 12300K |
| | | 245 | 12350K |
| | | 246 | 12400K |
| | | 247 | 12450K |
| | | 248 | 12500K |
| | | 249 | 12550K |
| | | 250 | 12600K |
| | | 251 | 12650K |
| | | 252 | 12700K |
| | | 253 | 12750K |
| | | 254 | 12800K |
| | | 255 | 12850K |
| **11** | Tint 1 | 0 | -050 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **11** | Tint 1 (continued) | 1–62 | -050 … -025 |
| | | 63–64 | -025 |
| | | 65–126 | -025 … 0 |
| | | 127–128 | 0 |
| | | 129–190 | 0 … +025 |
| | | 191–192 | +025 |
| | | 193–254 | +025 … +050 |
| | | 255 | +050 |
| **12** | Colors | | Same as CH 12 in the mode “Compact” (p. 18) |
| **13** | Pan | | Same as CH 13 in the mode “Compact” (p. 21) |
| **14** | Pan Fine | 0–255 | Fine adjustment of CH 13 |
| **15** | Tilt | | Same as CH 15 in the mode “Compact” (p. 21) |
| **16** | Tilt Fine | 0–255 | Fine adjustment of CH 15 |
| **17** | Control | | Same as CH 17 in the mode “Compact” (p. 21) |
| **18** | Dimming Zones | | Same as CH 18 in the mode “Compact” (p. 22) |
| **19** | LED Frequency | | Same as CH 19 in the mode “Compact” (p. 25) |
| **20** | P 3 1 | 0–26 | DMX Mode |
| | | 27 | DMX |
| | | 28–227 | Mix |
| | | 228 | Video |
| | | 229–255 | Video Mode |
| **21** | Effects | 0 | No Effect |
| | | 1 | Beam Strobe Width |
| | | 2 | Beam Blackout Strobe |
| | | 3 | Beam 2x Strobe |
| | | 4 | Beam 3x Strobe |
| | | 5 | Beam 4x Strobe |
| | | 6 | Beam Up Down Flash |
| | | 7 | Beam Up Down Flash BiColor |
| | | 8 | Beam Up Flash Down Flash |
| | | 9 | Beam Up Flash Down Flash BiColor |
| | | 10 | Beam Random Levels |
| | | 11 | Beam Movie Flicker |
| | | 12 | Beam Atomic Lighting |
| | | 13 | Beam Thunderstorm |
| | | 14–17 | No Function 1 |
| | | 18 | Beam RedWhiteBlue Step |
| | | 19 | Beam RedWhiteBlue Fade |
| | | 20 | Beam Fire |
| | | 21 | Beam Water |
| | | 22 | Beam Swimming Pool |
| | | 23 | Beam Ice |

| CH | Function | DMX | Description |
|---|---|---|---|
| **21** | Effects (continued) | 24 | Beam Hot and Cold |
| | | 25 | Beam Warm and Fuzzy |
| | | 26 | Beam Silver and Gold |
| | | 27 | Beam Gold and Silver |
| | | 28 | Beam Electric Arc |
| | | 29 | Beam Plasma |
| | | 30–33 | No Function 2 |
| | | 34 | Beam Spectrum Shift Static |
| | | 35 | Beam Spectrum Shift Step |
| | | 36 | Beam Spectrum Shift Fade |
| | | 37 | Beam Color Toggle Step |
| | | 38 | Beam Color Toggle Fade |
| | | 39 | Beam Tungsten |
| | | 40 | Beam Tungsten Decay |
| | | 41–42 | No Function 3 |
| | | 43 | Beam SloMo |
| | | 44–47 | No Function 4 |
| | | 48 | Backlight Strobe Width |
| | | 49 | Backlight Blackout Strobe |
| | | 50 | Backlight 2x Strobe |
| | | 51 | Backlight 3x Strobe |
| | | 52 | Backlight 4x Strobe |
| | | 53 | Backlight Up Down Flash |
| | | 54 | Backlight Up Down Flash BiColor |
| | | 55 | Backlight Up Flash Down Flash |
| | | 56 | Backlight Up Flash Down Flash BiColor |
| | | 57 | Backlight Random Levels |
| | | 58 | Backlight Movie Flicker |
| | | 59 | Backlight Atomic Lighting |
| | | 60 | Backlight Thunderstorm |
| | | 61–64 | No Function 5 |
| | | 65 | Backlight PixelKiller |
| | | 66 | Backlight Sparkle Stars |
| | | 67 | Backlight Sparkle Stars Heavy |
| | | 68 | Backlight Lightning Random |
| | | 69 | Backlight Lightning Random Heavy |
| | | 70 | Backlight Lightning LeftRight |
| | | 71 | Backlight Lightning TopBottom |
| | | 72 | Backlight Starfield |
| | | 73 | Backlight Fiberoptic |
| | | 74 | Backlight Noise |
| | | 75 | Backlight Build UpDown Step |

| CH | Function | DMX | Description |
|---|---|---|---|
| **21** | Effects (continued) | 76 | Backlight Build UpDown Fade |
| | | 77 | Backlight Build UpDown Random Step |
| | | 78 | Backlight Build UpDown Random Fade |
| | | 79 | Backlight Random 1 Step |
| | | 80 | Backlight Random 1 Fade |
| | | 81 | Backlight Random 2 Step |
| | | 82 | Backlight Random 2 Fade |
| | | 83 | Backlight Random 4 Step |
| | | 84 | Backlight Random 4 Fade |
| | | 85 | Backlight Random 8 Step |
| | | 86 | Backlight Random 8 Fade |
| | | 87 | Backlight Random 12 Step |
| | | 88 | Backlight Random 12 Fade |
| | | 89 | Backlight Random 16 Step |
| | | 90 | Backlight Random 16 Fade |
| | | 91 | Backlight Split Static |
| | | 92 | Backlight Split Rotate Step |
| | | 93 | Backlight Split Rotate Fade |
| | | 94 | Backlight OddEven Step |
| | | 95 | Backlight OddEven Fade |
| | | 96 | Backlight OddEven Dual Step |
| | | 97 | Backlight OddEven Dual Fade |
| | | 98 | Backlight 1 Radar Spin Step |
| | | 99 | Backlight 1 Radar Spin Fade |
| | | 100 | Backlight 2 Radar Spin Step |
| | | 101 | Backlight 2 Radar Spin Fade |
| | | 102 | Backlight 3 Radar Spin Step |
| | | 103 | Backlight 3 Radar Spin Fade |
| | | 104 | Backlight 4 Radar Spin Step |
| | | 105 | Backlight 4 Radar Spin Fade |
| | | 106 | Backlight 6 Radar Spin Step |
| | | 107 | Backlight 6 Radar Spin Fade |
| | | 108 | Backlight Slice Pie 1 Step |
| | | 109 | Backlight Slice Pie 1 Fade |
| | | 110 | Backlight Slice Pie 2 Step |
| | | 111 | Backlight Slice Pie 2 Fade |
| | | 112 | Backlight Slice Pie 3 Step |
| | | 113 | Backlight Slice Pie 3 Fade |
| | | 114 | Backlight Random Slice Pie Step |
| | | 115 | Backlight Random Slice Pie Fade |
| | | 116 | Backlight Snake 1 Step |
| | | 117 | Backlight Snake 1 Fade |

| CH | Function | DMX | Description |
|---|---|---|---|
| **21** | Effects (continued) | 118 | Backlight Snake 2 Step |
| | | 119 | Backlight Snake 2 Fade |
| | | 120 | Backlight Snake 4 Step |
| | | 121 | Backlight Snake 4 Fade |
| | | 122 | Backlight Snake 8 Step |
| | | 123 | Backlight Snake 8 Fade |
| | | 124 | Backlight Snake 12 Step |
| | | 125 | Backlight Snake 12 Fade |
| | | 126 | Backlight Snake 16 Step |
| | | 127 | Backlight Snake 16 Fade |
| | | 128 | Backlight Nightrider Vertical |
| | | 129 | Backlight Nightrider Horizontal |
| | | 130 | Backlight Snowflakes Vertical |
| | | 131 | Backlight Snowflakes Horizontal |
| | | 132 | Backlight Rain Vertical |
| | | 133 | Backlight Rain Horizontal |
| | | 134 | Backlight Vertical Line Step |
| | | 135 | Backlight Vertical Line Fade |
| | | 136 | Backlight Vertical Bounce Step |
| | | 137 | Backlight Vertical Bounce Fade |
| | | 138 | Backlight Horizontal Line Step |
| | | 139 | Backlight Horizontal Line Fade |
| | | 140 | Backlight Horizontal Bounce Step |
| | | 141 | Backlight Horisontal Bounce Fade |
| | | 142 | Backlight HV Bounce Step |
| | | 143 | Backlight HV Bounce Fade |
| | | 144–147 | No Function 6 |
| | | 148 | Backlight Rainbow Step |
| | | 149 | Backlight Rainbow Fade |
| | | 150 | Backlight Rainbow Pixels Step |
| | | 151 | Backlight Rainbow Pixels Fade |
| | | 152 | Backlight RedYellow Step |
| | | 153 | Backlight RedYellow Fade |
| | | 154 | Backlight Yellowgreen Step |
| | | 155 | Backlight YellowGreen Fade |
| | | 156 | Backlight GreenCyan Step |
| | | 157 | Backlight GreenCyan Fade |
| | | 158 | Backlight CyanBlue Step |
| | | 159 | Backlight CyanBlue Fade |
| | | 160 | Backlight BlueMagenta Step |
| | | 161 | Backlight BlueMagenta Fade |
| | | 162 | Backlight MagentaRed Step |

| CH | Function | DMX | Description |
|---|---|---|---|
| **21** | Effects (continued) | 163 | Backlight MagentaRed Fade |
| | | 164 | Backlight RedWhiteBlue Step |
| | | 165 | Backlight RedWhiteBlue Fade |
| | | 166 | Backlight Fire |
| | | 167 | Backlight Water |
| | | 168 | Backlight Swimming Pool |
| | | 169 | Backlight Ice |
| | | 170 | Backlight Hot and Cold |
| | | 171 | Backlight Warm and Fuzzy |
| | | 172 | Backlight Silver and Gold |
| | | 173 | Backlight Gold and Silver |
| | | 174 | Backlight Electric Arc |
| | | 175 | Backlight Plasma |
| | | 176–179 | No Function 7 |
| | | 180 | Backlight Spectrum Shift Static |
| | | 181 | Backlight Spectrum Shift Step |
| | | 182 | Backlight Spectrum Shift Fade |
| | | 183 | Backlight Pixel Spectrum Shift Static |
| | | 184 | Backlight Pixel Spectrum Shift Step |
| | | 185 | Backlight Pixel Spectrum Shift Fade |
| | | 186 | Backlight Pixel Spectrum Shift Random Static |
| | | 187 | Backlight Pixel Spectrum Shift Random Step |
| | | 188 | Backlight Pixel Spectrum Shift Random Fade |
| | | 189 | Backlight Color Toggle Step |
| | | 190 | Backlight Color Toggle Fade |
| | | 191 | Backlight Tungsten |
| | | 192 | Backlight Tungsten Decay |
| | | 193–196 | No Function 8 |
| | | 197 | Backlight SloMo |
| | | 198–201 | No Function 9 |
| | | 202 | Beam Backlight Step |
| | | 203 | Beam Backlight Fade |
| | | 204 | Backlight Ramp Beam Flash |
| | | 205 | Beam Ramp Backlight Flash |
| | | 206 | Beam Backlight Thunderstorm |
| | | 207 | Beam Backlight Welding |
| | | 208 | Beam Backlight 3 Step Strobe |
| | | 209–230 | No Function 10 |
| | | 231 | PanTilt Circle Small |
| | | 232 | PanTilt Circle Medium |
| | | 233 | PanTilt Circle Large |
| | | 234 | PanTilt Figure 8 Small |

| CH | Function | DMX | Description |
|---|---|---|---|
| **21** | Effects (continued) | 235 | PanTilt Figure 8 Medium |
| | | 236 | PanTilt Figure 8 Large |
| | | 237 | PanTilt Diagonal Small |
| | | 238 | PanTilt Diagonal Medium |
| | | 239 | PanTilt Diagonal Large |
| | | 240 | PanTilt Square Small |
| | | 241 | PanTilt Square Medium |
| | | 242 | PanTilt Square Large |
| | | 243 | Tilt Sawtooth with Dimmer |
| | | 244 | Pan Sawtooth with Dimmer |
| | | 245–249 | No Function 11 |
| | | 250 | Masks and Looks |
| | | 251 | Backlight PixelMasks |
| | | 252–253 | Backlight PixelMasks ... Backlight ColorLooks |
| | | 254 | Backlight ColorLooks |
| | | 255 | Virtual Dimmers Square Law |
| **22** | Effects Speed | | When CH 21 is 0–249: |
| | | 0 | Rev Max |
| | | 1–63 | Rev Max ... Rev Med |
| | | 64 | Rev Med |
| | | 65–125 | Rev Med ... Rev Min |
| | | 126 | Rev Min |
| | | 127–129 | Stop |
| | | 130 | Fwd Min |
| | | 131–191 | Fwd Min ... Fwd Med |
| | | 192 | Fwd Med |
| | | 193–254 | Fwd Med ... Fwd Max |
| | | 255 | Fwd Max |
| | | | When CH 21 is 250: |
| | | 0–255 | No Function 1 |
| | | | When CH 21 is 251: |
| | | 0–43 | 1:2 1 |
| | | 44 | 1:2 2 |
| | | 45 | 1:3 1 |
| | | 46 | 1:3 2 |
| | | 47 | 1:3 3 |
| | | 48 | 1:4 1 |
| | | 49 | 1:4 2 |
| | | 50 | 1:4 3 |
| | | 51 | 1:4 4 |
| | | 52 | 1:6 1 |
| | | 53 | 1:6 2 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **22** | Effects Speed (continued) | 54 | 1:6 3 |
| | | 55 | 1:6 4 |
| | | 56 | 1:6 5 |
| | | 57 | 1:6 6 |
| | | 58 | 1:8 1 |
| | | 59 | 1:8 2 |
| | | 60 | 1:8 3 |
| | | 61 | 1:8 4 |
| | | 62 | 1:8 5 |
| | | 63 | 1:8 6 |
| | | 64 | 1:8 7 |
| | | 65 | 1:8 8 |
| | | 66 | 1:12 1 |
| | | 67 | 1:12 2 |
| | | 68 | 1:12 3 |
| | | 69 | 1:12 4 |
| | | 70 | 1:12 5 |
| | | 71 | 1:12 6 |
| | | 72 | 1:12 7 |
| | | 73 | 1:12 8 |
| | | 74 | 1:12 9 |
| | | 75 | 1:12 10 |
| | | 76 | 1:12 11 |
| | | 77 | 1:12 12 |
| | | 78 | 1:24 1 |
| | | 79 | 1:24 2 |
| | | 80 | 1:24 3 |
| | | 81 | 1:24 4 |
| | | 82 | 1:24 5 |
| | | 83 | 1:24 6 |
| | | 84 | 1:24 7 |
| | | 85 | 1:24 8 |
| | | 86 | 1:24 9 |
| | | 87 | 1:24 10 |
| | | 88 | 1:24 11 |
| | | 89 | 1:24 12 |
| | | 90 | 1:24 13 |
| | | 91 | 1:24 14 |
| | | 92 | 1:24 15 |
| | | 93 | 1:24 16 |
| | | 94 | 1:24 17 |
| | | 95 | 1:24 18 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **22** | Effects Speed (continued) | 96 | 1:24 19 |
| | | 97 | 1:24 20 |
| | | 98 | 1:24 21 |
| | | 99 | 1:24 22 |
| | | 100 | 1:24 23 |
| | | 101 | 1:24 24 |
| | | 102 | 12-Block 1 |
| | | 103 | 12-Block 2 |
| | | 104 | 12-Block 3 |
| | | 105 | 12-Block 4 |
| | | 106 | 8-Block 1 |
| | | 107 | 8-Block 2 |
| | | 108 | 8-Block 3 |
| | | 109 | 8-Block 4 |
| | | 110 | 8-Block 5 |
| | | 111 | 8-Block 6 |
| | | 112 | 6-Block 1 |
| | | 113 | 6-Block 2 |
| | | 114 | 6-Block 3 |
| | | 115 | 6-Block 4 |
| | | 116 | 6-Block 5 |
| | | 117 | 6-Block 6 |
| | | 118 | 6-Block 7 |
| | | 119 | 6-Block 8 |
| | | 120 | 4-Block 1 |
| | | 121 | 4-Block 2 |
| | | 122 | 4-Block 3 |
| | | 123 | 4-Block 4 |
| | | 124 | 4-Block 5 |
| | | 125 | 4-Block 6 |
| | | 126 | 4-Block 7 |
| | | 127 | 4-Block 8 |
| | | 128 | 4-Block 9 |
| | | 129 | 4-Block 10 |
| | | 130 | 4-Block 11 |
| | | 131 | 4-Block 12 |
| | | 132 | 3-Block 1 |
| | | 133 | 3-Block 2 |
| | | 134 | 3-Block 3 |
| | | 135 | 3-Block 4 |
| | | 136 | 3-Block 5 |
| | | 137 | 3-Block 6 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **22** | Effects Speed (continued) | 138 | 3-Block 7 |
| | | 139 | 3-Block 8 |
| | | 140 | 2-Block 1 |
| | | 141 | 2-Block 2 |
| | | 142 | 2-Block 3 |
| | | 143 | 2-Block 4 |
| | | 144 | 2-Block 5 |
| | | 145 | 2-Block 6 |
| | | 146 | 2-Block 7 |
| | | 147 | 2-Block 8 |
| | | 148 | 2-Block 9 |
| | | 149 | 2-Block 10 |
| | | 150 | 2-Block 11 |
| | | 151 | 2-Block 12 |
| | | 152 | 12-Block-2 1 |
| | | 153 | 12-Block-2 2 |
| | | 154 | 12-Block-2 3 |
| | | 155 | 12-Block-2 4 |
| | | 156 | 12-Block-3 1 |
| | | 157 | 12-Block-3 2 |
| | | 158 | 12-Block-3 3 |
| | | 159 | 12-Block-3 4 |
| | | 160 | 12-Block-4 1 |
| | | 161 | 12-Block-4 2 |
| | | 162 | 12-Block-6 1 |
| | | 163 | 12-Block-6 2 |
| | | 164 | 8-Block-2 1 |
| | | 165 | 8-Block-2 2 |
| | | 166 | 8-Block-2 3 |
| | | 167 | 8-Block-2 4 |
| | | 168 | 8-Block-2 5 |
| | | 169 | 8-Block-2 6 |
| | | 170 | 8-Block-4 1 |
| | | 171 | 8-Block-4 2 |
| | | 172 | 8-Block-4 3 |
| | | 173 | 6-Block-2 1 |
| | | 174 | 6-Block-2 2 |
| | | 175 | 6-Block-2 3 |
| | | 176 | 6-Block-2 4 |
| | | 177 | 6-Block-3 1 |
| | | 178 | 6-Block-3 2 |
| | | 179 | 6-Block-3 3 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **22** | Effects Speed (continued) | 180 | 6-Block-3 4 |
| | | 181 | 4-Block-2 1 |
| | | 182 | 4-Block-2 2 |
| | | 183 | 4-Block-2 3 |
| | | 184 | 4-Block-2 4 |
| | | 185 | 4-Block-2 5 |
| | | 186 | 4-Block-2 6 |
| | | 187 | Random |
| | | 188 | Grad CW |
| | | 189 | Grad CCW |
| | | 190 | Grad CW 2 |
| | | 191 | Grad CCW 2 |
| | | 192 | Grad CW 3 |
| | | 193 | Grad CCW 3 |
| | | 194 | Grad CW 4 |
| | | 195 | Grad CCW 4 |
| | | 196 | Grad 0deg |
| | | 197 | Grad 45deg |
| | | 198 | Grad 90deg |
| | | 199 | Grad 135deg |
| | | 200 | Grad 180deg |
| | | 201 | Grad 225deg |
| | | 202 | Grad 270deg |
| | | 203 | Grad 315deg |
| | | 204 | C Grad 0deg |
| | | 205 | C Grad 45deg |
| | | 206 | C Grad 90deg |
| | | 207 | C Grad 135deg |
| | | 208 | C Grad 180deg |
| | | 209 | C Grad 225deg |
| | | 210 | C Grad 270deg |
| | | 211 | C Grad 315deg |
| | | 212–255 | Grad Random |
| | | | When CH 21 is 252–253: |
| | | 0–255 | No Function 2 |
| | | | When CH 21 is 254: |
| | | 0–255 | Look 1...256 |
| | | | When CH 21 is 255: |
| | | 0–255 | No Function 3 |
| **23** | Effects 2 | 0 | No Effect |
| | | 1 | Beam Strobe Width |
| | | 2 | Beam Blackout Strobe |

| CH | Function | DMX | Description |
|---|---|---|---|
| **23** | Effects 2 (continued) | 3 | Beam 2x Strobe |
| | | 4 | Beam 3x Strobe |
| | | 5 | Beam 4x Strobe |
| | | 6 | Beam Up Down Flash |
| | | 7 | Beam Up Down Flash BiColor |
| | | 8 | Beam Up Flash Down Flash |
| | | 9 | Beam Up Flash Down Flash BiColor |
| | | 10 | Beam Random Levels |
| | | 11 | Beam Movie Flicker |
| | | 12 | Beam Atomic Lighting |
| | | 13 | Beam Thunderstorm |
| | | 14–17 | No Function 1 |
| | | 18 | Beam RedWhiteBlue Step |
| | | 19 | Beam RedWhiteBlue Fade |
| | | 20 | Beam Fire |
| | | 21 | Beam Water |
| | | 22 | Beam Swimming Pool |
| | | 23 | Beam Ice |
| | | 24 | Beam Hot and Cold |
| | | 25 | Beam Warm and Fuzzy |
| | | 26 | Beam Silver and Gold |
| | | 27 | Beam Gold and Silver |
| | | 28 | Beam Electric Arc |
| | | 29 | Beam Plasma |
| | | 30–33 | No Function 2 |
| | | 34 | Beam Spectrum Shift Static |
| | | 35 | Beam Spectrum Shift Step |
| | | 36 | Beam Spectrum Shift Fade |
| | | 37 | Beam Color Toggle Step |
| | | 38 | Beam Color Toggle Fade |
| | | 39 | Beam Tungsten |
| | | 40 | Beam Tungsten Decay |
| | | 41–42 | No Function 3 |
| | | 43 | Beam SloMo |
| | | 44–47 | No Function 4 |
| | | 48 | Backlight Strobe Width |
| | | 49 | Backlight Blackout Strobe |
| | | 50 | Backlight 2x Strobe |
| | | 51 | Backlight 3x Strobe |
| | | 52 | Backlight 4x Strobe |
| | | 53 | Backlight Up Down Flash |
| | | 54 | Backlight Up Down Flash BiColor |

| CH | Function | DMX | Description |
|---|---|---|---|
| **23** | Effects 2 (continued) | 55 | Backlight Up Flash Down Flash |
| | | 56 | Backlight Up Flash Down Flash BiColor |
| | | 57 | Backlight Random Levels |
| | | 58 | Backlight Movie Flicker |
| | | 59 | Backlight Atomic Lighting |
| | | 60 | Backlight Thunderstorm |
| | | 61–64 | No Function 5 |
| | | 65 | Backlight PixelKiller |
| | | 66 | Backlight Sparkle Stars |
| | | 67 | Backlight Sparkle Stars Heavy |
| | | 68 | Backlight Lightning Random |
| | | 69 | Backlight Lightning Random Heavy |
| | | 70 | Backlight Lightning LeftRight |
| | | 71 | Backlight Lightning TopBottom |
| | | 72 | Backlight Starfield |
| | | 73 | Backlight Fiberoptic |
| | | 74 | Backlight Noise |
| | | 75 | Backlight Build UpDown Step |
| | | 76 | Backlight Build UpDown Fade |
| | | 77 | Backlight Build UpDown Random Step |
| | | 78 | Backlight Build UpDown Random Fade |
| | | 79 | Backlight Random 1 Step |
| | | 80 | Backlight Random 1 Fade |
| | | 81 | Backlight Random 2 Step |
| | | 82 | Backlight Random 2 Fade |
| | | 83 | Backlight Random 4 Step |
| | | 84 | Backlight Random 4 Fade |
| | | 85 | Backlight Random 8 Step |
| | | 86 | Backlight Random 8 Fade |
| | | 87 | Backlight Random 12 Step |
| | | 88 | Backlight Random 12 Fade |
| | | 89 | Backlight Random 16 Step |
| | | 90 | Backlight Random 16 Fade |
| | | 91 | Backlight Split Static |
| | | 92 | Backlight Split Rotate Step |
| | | 93 | Backlight Split Rotate Fade |
| | | 94 | Backlight OddEven Step |
| | | 95 | Backlight OddEven Fade |
| | | 96 | Backlight OddEven Dual Step |
| | | 97 | Backlight OddEven Dual Fade |
| | | 98 | Backlight 1 Radar Spin Step |
| | | 99 | Backlight 1 Radar Spin Fade |

| CH | Function | DMX | Description |
|---|---|---|---|
| **23** | Effects 2 (continued) | 100 | Backlight 2 Radar Spin Step |
| | | 101 | Backlight 2 Radar Spin Fade |
| | | 102 | Backlight 3 Radar Spin Step |
| | | 103 | Backlight 3 Radar Spin Fade |
| | | 104 | Backlight 4 Radar Spin Step |
| | | 105 | Backlight 4 Radar Spin Fade |
| | | 106 | Backlight 6 Radar Spin Step |
| | | 107 | Backlight 6 Radar Spin Fade |
| | | 108 | Backlight Slice Pie 1 Step |
| | | 109 | Backlight Slice Pie 1 Fade |
| | | 110 | Backlight Slice Pie 2 Step |
| | | 111 | Backlight Slice Pie 2 Fade |
| | | 112 | Backlight Slice Pie 3 Step |
| | | 113 | Backlight Slice Pie 3 Fade |
| | | 114 | Backlight Random Slice Pie Step |
| | | 115 | Backlight Random Slice Pie Fade |
| | | 116 | Backlight Snake 1 Step |
| | | 117 | Backlight Snake 1 Fade |
| | | 118 | Backlight Snake 2 Step |
| | | 119 | Backlight Snake 2 Fade |
| | | 120 | Backlight Snake 4 Step |
| | | 121 | Backlight Snake 4 Fade |
| | | 122 | Backlight Snake 8 Step |
| | | 123 | Backlight Snake 8 Fade |
| | | 124 | Backlight Snake 12 Step |
| | | 125 | Backlight Snake 12 Fade |
| | | 126 | Backlight Snake 16 Step |
| | | 127 | Backlight Snake 16 Fade |
| | | 128 | Backlight Nightrider Vertical |
| | | 129 | Backlight Nightrider Horizontal |
| | | 130 | Backlight Snowflakes Vertical |
| | | 131 | Backlight Snowflakes Horizontal |
| | | 132 | Backlight Rain Vertical |
| | | 133 | Backlight Rain Horizontal |
| | | 134 | Backlight Vertical Line Step |
| | | 135 | Backlight Vertical Line Fade |
| | | 136 | Backlight Vertical Bounce Step |
| | | 137 | Backlight Vertical Bounce Fade |
| | | 138 | Backlight Horizontal Line Step |
| | | 139 | Backlight Horizontal Line Fade |
| | | 140 | Backlight Horizontal Bounce Step |
| | | 141 | Backlight Horisontal Bounce Fade |

| CH | Function | DMX | Description |
|---|---|---|---|
| **23** | Effects 2 (continued) | 142 | Backlight HV Bounce Step |
| | | 143 | Backlight HV Bounce Fade |
| | | 144–147 | No Function 6 |
| | | 148 | Backlight Rainbow Step |
| | | 149 | Backlight Rainbow Fade |
| | | 150 | Backlight Rainbow Pixels Step |
| | | 151 | Backlight Rainbow Pixels Fade |
| | | 152 | Backlight RedYellow Step |
| | | 153 | Backlight RedYellow Fade |
| | | 154 | Backlight Yellowgreen Step |
| | | 155 | Backlight YellowGreen Fade |
| | | 156 | Backlight GreenCyan Step |
| | | 157 | Backlight GreenCyan Fade |
| | | 158 | Backlight CyanBlue Step |
| | | 159 | Backlight CyanBlue Fade |
| | | 160 | Backlight BlueMagenta Step |
| | | 161 | Backlight BlueMagenta Fade |
| | | 162 | Backlight MagentaRed Step |
| | | 163 | Backlight MagentaRed Fade |
| | | 164 | Backlight RedWhiteBlue Step |
| | | 165 | Backlight RedWhiteBlue Fade |
| | | 166 | Backlight Fire |
| | | 167 | Backlight Water |
| | | 168 | Backlight Swimming Pool |
| | | 169 | Backlight Ice |
| | | 170 | Backlight Hot and Cold |
| | | 171 | Backlight Warm and Fuzzy |
| | | 172 | Backlight Silver and Gold |
| | | 173 | Backlight Gold and Silver |
| | | 174 | Backlight Electric Arc |
| | | 175 | Backlight Plasma |
| | | 176–179 | No Function 7 |
| | | 180 | Backlight Spectrum Shift Static |
| | | 181 | Backlight Spectrum Shift Step |
| | | 182 | Backlight Spectrum Shift Fade |
| | | 183 | Backlight Pixel Spectrum Shift Static |
| | | 184 | Backlight Pixel Spectrum Shift Step |
| | | 185 | Backlight Pixel Spectrum Shift Fade |
| | | 186 | Backlight Pixel Spectrum Shift Random Static |
| | | 187 | Backlight Pixel Spectrum Shift Random Step |
| | | 188 | Backlight Pixel Spectrum Shift Random Fade |
| | | 189 | Backlight Color Toggle Step |

| CH | Function | DMX | Description |
|---|---|---|---|
| **23** | Effects 2 (continued) | 190 | Backlight Color Toggle Fade |
| | | 191 | Backlight Tungsten |
| | | 192 | Backlight Tungsten Decay |
| | | 193–196 | No Function 8 |
| | | 197 | Backlight SloMo |
| | | 198–201 | No Function 9 |
| | | 202 | Beam Backlight Step |
| | | 203 | Beam Backlight Fade |
| | | 204 | Backlight Ramp Beam Flash |
| | | 205 | Beam Ramp Backlight Flash |
| | | 206 | Beam Backlight Thunderstorm |
| | | 207 | Beam Backlight Welding |
| | | 208 | Beam Backlight 3 Step Strobe |
| | | 209–230 | No Function 10 |
| | | 231 | PanTilt Circle Small |
| | | 232 | PanTilt Circle Medium |
| | | 233 | PanTilt Circle Large |
| | | 234 | PanTilt Figure 8 Small |
| | | 235 | PanTilt Figure 8 Medium |
| | | 236 | PanTilt Figure 8 Large |
| | | 237 | PanTilt Diagonal Small |
| | | 238 | PanTilt Diagonal Medium |
| | | 239 | PanTilt Diagonal Large |
| | | 240 | PanTilt Square Small |
| | | 241 | PanTilt Square Medium |
| | | 242 | PanTilt Square Large |
| | | 243 | Tilt Sawtooth with Dimmer |
| | | 244 | Pan Sawtooth with Dimmer |
| | | 245–249 | No Function 11 |
| | | 250 | Masks and Looks |
| | | 251 | Backlight PixelMasks |
| | | 252–253 | Backlight PixelMasks ... Backlight ColorLooks |
| | | 254 | Backlight ColorLooks |
| | | 255 | Virtual Dimmers Square Law |
| **24** | Effects 2 Speed | | When CH 23 is 0–249: |
| | | 0 | Rev Max |
| | | 1–63 | Rev Max ... Rev Med |
| | | 64 | Rev Med |
| | | 65–125 | Rev Med ... Rev Min |
| | | 126 | Rev Min |
| | | 127–129 | Stop |
| | | 130 | Fwd Min |

| CH | Function | DMX | Description |
|---|---|---|---|
| **24** | Effects 2 Speed (continued) | 131–191 | Fwd Min ... Fwd Med |
| | | 192 | Fwd Med |
| | | 193–254 | Fwd Med ... Fwd Max |
| | | 255 | Fwd Max |
| | | | When CH 23 is 250: |
| | | 0–255 | No Function 1 |
| | | | When CH 23 is 251: |
| | | 0–43 | 1:2 1 |
| | | 44 | 1:2 2 |
| | | 45 | 1:3 1 |
| | | 46 | 1:3 2 |
| | | 47 | 1:3 3 |
| | | 48 | 1:4 1 |
| | | 49 | 1:4 2 |
| | | 50 | 1:4 3 |
| | | 51 | 1:4 4 |
| | | 52 | 1:6 1 |
| | | 53 | 1:6 2 |
| | | 54 | 1:6 3 |
| | | 55 | 1:6 4 |
| | | 56 | 1:6 5 |
| | | 57 | 1:6 6 |
| | | 58 | 1:8 1 |
| | | 59 | 1:8 2 |
| | | 60 | 1:8 3 |
| | | 61 | 1:8 4 |
| | | 62 | 1:8 5 |
| | | 63 | 1:8 6 |
| | | 64 | 1:8 7 |
| | | 65 | 1:8 8 |
| | | 66 | 1:12 1 |
| | | 67 | 1:12 2 |
| | | 68 | 1:12 3 |
| | | 69 | 1:12 4 |
| | | 70 | 1:12 5 |
| | | 71 | 1:12 6 |
| | | 72 | 1:12 7 |
| | | 73 | 1:12 8 |
| | | 74 | 1:12 9 |
| | | 75 | 1:12 10 |
| | | 76 | 1:12 11 |
| | | 77 | 1:12 12 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **24** | Effects 2 Speed (continued) | 78 | 1:24 1 |
| | | 79 | 1:24 2 |
| | | 80 | 1:24 3 |
| | | 81 | 1:24 4 |
| | | 82 | 1:24 5 |
| | | 83 | 1:24 6 |
| | | 84 | 1:24 7 |
| | | 85 | 1:24 8 |
| | | 86 | 1:24 9 |
| | | 87 | 1:24 10 |
| | | 88 | 1:24 11 |
| | | 89 | 1:24 12 |
| | | 90 | 1:24 13 |
| | | 91 | 1:24 14 |
| | | 92 | 1:24 15 |
| | | 93 | 1:24 16 |
| | | 94 | 1:24 17 |
| | | 95 | 1:24 18 |
| | | 96 | 1:24 19 |
| | | 97 | 1:24 20 |
| | | 98 | 1:24 21 |
| | | 99 | 1:24 22 |
| | | 100 | 1:24 23 |
| | | 101 | 1:24 24 |
| | | 102 | 12-Block 1 |
| | | 103 | 12-Block 2 |
| | | 104 | 12-Block 3 |
| | | 105 | 12-Block 4 |
| | | 106 | 8-Block 1 |
| | | 107 | 8-Block 2 |
| | | 108 | 8-Block 3 |
| | | 109 | 8-Block 4 |
| | | 110 | 8-Block 5 |
| | | 111 | 8-Block 6 |
| | | 112 | 6-Block 1 |
| | | 113 | 6-Block 2 |
| | | 114 | 6-Block 3 |
| | | 115 | 6-Block 4 |
| | | 116 | 6-Block 5 |
| | | 117 | 6-Block 6 |
| | | 118 | 6-Block 7 |
| | | 119 | 6-Block 8 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **24** | Effects 2 Speed (continued) | 120 | 4-Block 1 |
| | | 121 | 4-Block 2 |
| | | 122 | 4-Block 3 |
| | | 123 | 4-Block 4 |
| | | 124 | 4-Block 5 |
| | | 125 | 4-Block 6 |
| | | 126 | 4-Block 7 |
| | | 127 | 4-Block 8 |
| | | 128 | 4-Block 9 |
| | | 129 | 4-Block 10 |
| | | 130 | 4-Block 11 |
| | | 131 | 4-Block 12 |
| | | 132 | 3-Block 1 |
| | | 133 | 3-Block 2 |
| | | 134 | 3-Block 3 |
| | | 135 | 3-Block 4 |
| | | 136 | 3-Block 5 |
| | | 137 | 3-Block 6 |
| | | 138 | 3-Block 7 |
| | | 139 | 3-Block 8 |
| | | 140 | 2-Block 1 |
| | | 141 | 2-Block 2 |
| | | 142 | 2-Block 3 |
| | | 143 | 2-Block 4 |
| | | 144 | 2-Block 5 |
| | | 145 | 2-Block 6 |
| | | 146 | 2-Block 7 |
| | | 147 | 2-Block 8 |
| | | 148 | 2-Block 9 |
| | | 149 | 2-Block 10 |
| | | 150 | 2-Block 11 |
| | | 151 | 2-Block 12 |
| | | 152 | 12-Block-2 1 |
| | | 153 | 12-Block-2 2 |
| | | 154 | 12-Block-2 3 |
| | | 155 | 12-Block-2 4 |
| | | 156 | 12-Block-3 1 |
| | | 157 | 12-Block-3 2 |
| | | 158 | 12-Block-3 3 |
| | | 159 | 12-Block-3 4 |
| | | 160 | 12-Block-4 1 |
| | | 161 | 12-Block-4 2 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **24** | Effects 2 Speed (continued) | 162 | 12-Block-6 1 |
| | | 163 | 12-Block-6 2 |
| | | 164 | 8-Block-2 1 |
| | | 165 | 8-Block-2 2 |
| | | 166 | 8-Block-2 3 |
| | | 167 | 8-Block-2 4 |
| | | 168 | 8-Block-2 5 |
| | | 169 | 8-Block-2 6 |
| | | 170 | 8-Block-4 1 |
| | | 171 | 8-Block-4 2 |
| | | 172 | 8-Block-4 3 |
| | | 173 | 6-Block-2 1 |
| | | 174 | 6-Block-2 2 |
| | | 175 | 6-Block-2 3 |
| | | 176 | 6-Block-2 4 |
| | | 177 | 6-Block-3 1 |
| | | 178 | 6-Block-3 2 |
| | | 179 | 6-Block-3 3 |
| | | 180 | 6-Block-3 4 |
| | | 181 | 4-Block-2 1 |
| | | 182 | 4-Block-2 2 |
| | | 183 | 4-Block-2 3 |
| | | 184 | 4-Block-2 4 |
| | | 185 | 4-Block-2 5 |
| | | 186 | 4-Block-2 6 |
| | | 187 | Random |
| | | 188 | Grad CW |
| | | 189 | Grad CCW |
| | | 190 | Grad CW 2 |
| | | 191 | Grad CCW 2 |
| | | 192 | Grad CW 3 |
| | | 193 | Grad CCW 3 |
| | | 194 | Grad CW 4 |
| | | 195 | Grad CCW 4 |
| | | 196 | Grad 0deg |
| | | 197 | Grad 45deg |
| | | 198 | Grad 90deg |
| | | 199 | Grad 135deg |
| | | 200 | Grad 180deg |
| | | 201 | Grad 225deg |
| | | 202 | Grad 270deg |
| | | 203 | Grad 315deg |

| CH | Function | DMX | Description |
|---|---|---|---|
| **24** | Effects 2 Speed (continued) | 204 | C Grad 0deg |
| | | 205 | C Grad 45deg |
| | | 206 | C Grad 90deg |
| | | 207 | C Grad 135deg |
| | | 208 | C Grad 180deg |
| | | 209 | C Grad 225deg |
| | | 210 | C Grad 270deg |
| | | 211 | C Grad 315deg |
| | | 212–255 | Grad Random |
| | | | When CH 23 is 252–253: |
| | | 0–255 | No Function 2 |
| | | | When CH 23 is 254: |
| | | 0–255 | Look 1...256 |
| | | | When CH 23 is 255: |
| | | 0–255 | No Function 3 |
| **25** | Effects Sync | | FX Synchronization |
| | | 0 | No Sync |
| | | 1 | Fixture Offset 10deg |
| | | 2 | Fixture Offset 20deg |
| | | 3 | Fixture Offset 30deg |
| | | 4 | Fixture Offset 40deg |
| | | 5 | Fixture Offset 50deg |
| | | 6 | Fixture Offset 60deg |
| | | 7 | Fixture Offset 70deg |
| | | 8 | Fixture Offset 80deg |
| | | 9 | Fixture Offset 90deg |
| | | 10 | Fixture Offset 100deg |
| | | 11 | Fixture Offset 110deg |
| | | 12 | Fixture Offset 120deg |
| | | 13 | Fixture Offset 130deg |
| | | 14 | Fixture Offset 140deg |
| | | 15 | Fixture Offset 150deg |
| | | 16 | Fixture Offset 160deg |
| | | 17 | Fixture Offset 170deg |
| | | 18 | Fixture Offset 180deg |
| | | 19 | Fixture Offset 190deg |
| | | 20 | Fixture Offset 200deg |
| | | 21 | Fixture Offset 210deg |
| | | 22 | Fixture Offset 220deg |
| | | 23 | Fixture Offset 230deg |
| | | 24 | Fixtrue Offset 240deg |
| | | 25 | Fixture Offset 250deg |

| CH | Function | DMX | Description |
|---|---|---|---|
| **25** | Effects Sync (continued) | 26 | Fixture Offset 260deg |
| | | 27 | Fixture Offset 270deg |
| | | 28 | Fixture Offset 280deg |
| | | 29 | Fixture Offset 290deg |
| | | 30 | Fixture Offset 300deg |
| | | 31 | Fixture Offset 310deg |
| | | 32 | Fixture Offset 320deg |
| | | 33 | Fixture Offset 330deg |
| | | 34 | Fixture Offset 340deg |
| | | 35 | Fixture Offset 350deg |
| | | 36 | Synchronized |
| | | 37–100 | Synchronized ... Random Start |
| | | 101–120 | Random Start |
| | | 121–140 | Random Duration |
| | | 141–255 | FX Synchronization |
| **26** | Shutter 2 | 0–19 | Shutter: Closed |
| | | 20–49 | Shutter: Open |
| | | 50 | Strobe: Slow |
| | | 51–124 | Strobe: Slow ... Medium |
| | | 125 | Strobe: Medium |
| | | 126–199 | Strobe: Medium ... Fast |
| | | 200 | Strobe: Fast |
| | | 201–210 | Shutter: Open |
| | | 211 | Strobe Random: Slow |
| | | 212–232 | Strobe Random: Slow ... Medium |
| | | 233 | Strobe Random: Medium |
| | | 234–254 | Strobe Random: Medium ... Fast |
| | | 255 | Strobe Random: Fast |
| **27** | Dimmer 2 | 0–63 | Closed ... 25% |
| | | 64–127 | 25% ... 50% |
| | | 128–191 | 50% ... 75% |
| | | 192–255 | 75% ... Open |
| | | 255 | Open |
| **28** | Dimmer 2 Fine | 0–255 | Fine adjustment of CH 27 |
| **29** | Red 2 | 0 | Min |
| | | 1–63 | Min ... 25% |
| | | 64 | 25% |
| | | 65–127 | 25% ... 50% |
| | | 128 | 50% |
| | | 129–191 | 50% ... 75% |
| | | 192 | 75% |
| | | 193–254 | 75% ... Max |

| CH | Function | DMX | Description |
|---|---|---|---|
| **29** | Red 2 (continued) | 255 | Max |
| **30** | Green 2 | 0 | Min |
| | | 1–63 | Min … 25% |
| | | 64 | 25% |
| | | 65–127 | 25% … 50% |
| | | 128 | 50% |
| | | 129–191 | 50% … 75% |
| | | 192 | 75% |
| | | 193–254 | 75% … Max |
| | | 255 | Max |
| **31** | Blue 2 | 0 | Min |
| | | 1–63 | Min … 25% |
| | | 64 | 25% |
| | | 65–127 | 25% … 50% |
| | | 128 | 50% |
| | | 129–191 | 50% … 75% |
| | | 192 | 75% |
| | | 193–254 | 75% … Max |
| | | 255 | Max |
| **32** | Color Temperature 2 | 0–37 | No function |
| | | 38 | 2000K |
| | | 39 | 2050K |
| | | 40 | 2100K |
| | | 41 | 2150K |
| | | 42 | 2200K |
| | | 43 | 2250K |
| | | 44 | 2300K |
| | | 45 | 2350K |
| | | 46 | 2400K |
| | | 47 | 2450K |
| | | 48 | 2500K |
| | | 49 | 2550K |
| | | 50 | 2600K |
| | | 51 | 2650K |
| | | 52 | 2700K |
| | | 53 | 2750K |
| | | 54 | 2800K |
| | | 55 | 2850K |
| | | 56 | 2900K |
| | | 57 | 2950K |
| | | 58 | 3000K |
| | | 59 | 3050K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **32** | Color Temperature 2 (continued) | 60 | 3100K |
| | | 61 | 3150K |
| | | 62 | 3200K |
| | | 63 | 3250K |
| | | 64 | 3300K |
| | | 65 | 3350K |
| | | 66 | 3400K |
| | | 67 | 3450K |
| | | 68 | 3500K |
| | | 69 | 3550K |
| | | 70 | 3600K |
| | | 71 | 3650K |
| | | 72 | 3700K |
| | | 73 | 3750K |
| | | 74 | 3800K |
| | | 75 | 3850K |
| | | 76 | 3900K |
| | | 77 | 3950K |
| | | 78 | 4000K |
| | | 79 | 4050K |
| | | 80 | 4100K |
| | | 81 | 4150K |
| | | 82 | 4200K |
| | | 83 | 4250K |
| | | 84 | 4300K |
| | | 85 | 4350K |
| | | 86 | 4400K |
| | | 87 | 4450K |
| | | 88 | 4500K |
| | | 89 | 4550K |
| | | 90 | 4600K |
| | | 91 | 4650K |
| | | 92 | 4700K |
| | | 93 | 4750K |
| | | 94 | 4800K |
| | | 95 | 4850K |
| | | 96 | 4900K |
| | | 97 | 4950K |
| | | 98 | 5000K |
| | | 99 | 5050K |
| | | 100 | 5100K |
| | | 101 | 5150K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **32** | Color Temperature 2 (continued) | 102 | 5200K |
| | | 103 | 5250K |
| | | 104 | 5300K |
| | | 105 | 5350K |
| | | 106 | 5400K |
| | | 107 | 5450K |
| | | 108 | 5500K |
| | | 109 | 5550K |
| | | 110 | 5600K |
| | | 111 | 5650K |
| | | 112 | 5700K |
| | | 113 | 5750K |
| | | 114 | 5800K |
| | | 115 | 5850K |
| | | 116 | 5900K |
| | | 117 | 5950K |
| | | 118 | 6000K |
| | | 119 | 6050K |
| | | 120 | 6100K |
| | | 121 | 6150K |
| | | 122 | 6200K |
| | | 123 | 6250K |
| | | 124 | 6300K |
| | | 125 | 6350K |
| | | 126 | 6400K |
| | | 127 | 6450K |
| | | 128 | 6500K |
| | | 129 | 6550K |
| | | 130 | 6600K |
| | | 131 | 6650K |
| | | 132 | 6700K |
| | | 133 | 6750K |
| | | 134 | 6800K |
| | | 135 | 6850K |
| | | 136 | 6900K |
| | | 137 | 6950K |
| | | 138 | 7000K |
| | | 139 | 7050K |
| | | 140 | 7100K |
| | | 141 | 7150K |
| | | 142 | 7200K |
| | | 143 | 7250K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **32** | Color Temperature 2 (continued) | 144 | 7300K |
| | | 145 | 7350K |
| | | 146 | 7400K |
| | | 147 | 7450K |
| | | 148 | 7500K |
| | | 149 | 7550K |
| | | 150 | 7600K |
| | | 151 | 7650K |
| | | 152 | 7700K |
| | | 153 | 7750K |
| | | 154 | 7800K |
| | | 155 | 7850K |
| | | 156 | 7900K |
| | | 157 | 7950K |
| | | 158 | 8000K |
| | | 159 | 8050K |
| | | 160 | 8100K |
| | | 161 | 8150K |
| | | 162 | 8200K |
| | | 163 | 8250K |
| | | 164 | 8300K |
| | | 165 | 8350K |
| | | 166 | 8400K |
| | | 167 | 8450K |
| | | 168 | 8500K |
| | | 169 | 8550K |
| | | 170 | 8600K |
| | | 171 | 8650K |
| | | 172 | 8700K |
| | | 173 | 8750K |
| | | 174 | 8800K |
| | | 175 | 8850K |
| | | 176 | 8900K |
| | | 177 | 8950K |
| | | 178 | 9000K |
| | | 179 | 9050K |
| | | 180 | 9100K |
| | | 181 | 9150K |
| | | 182 | 9200K |
| | | 183 | 9250K |
| | | 184 | 9300K |
| | | 185 | 9350K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **32** | Color Temperature 2 (continued) | 186 | 9400K |
| | | 187 | 9450K |
| | | 188 | 9500K |
| | | 189 | 9550K |
| | | 190 | 9600K |
| | | 191 | 9650K |
| | | 192 | 9700K |
| | | 193 | 9750K |
| | | 194 | 9800K |
| | | 195 | 9850K |
| | | 196 | 9900K |
| | | 197 | 9950K |
| | | 198 | 10000K |
| | | 199 | 10050K |
| | | 200 | 10100K |
| | | 201 | 10150K |
| | | 202 | 10200K |
| | | 203 | 10250K |
| | | 204 | 10300K |
| | | 205 | 10350K |
| | | 206 | 10400K |
| | | 207 | 10450K |
| | | 208 | 10500K |
| | | 209 | 10550K |
| | | 210 | 10600K |
| | | 211 | 10650K |
| | | 212 | 10700K |
| | | 213 | 10750K |
| | | 214 | 10800K |
| | | 215 | 10850K |
| | | 216 | 10900K |
| | | 217 | 10950K |
| | | 218 | 11000K |
| | | 219 | 11050K |
| | | 220 | 11100K |
| | | 221 | 11150K |
| | | 222 | 11200K |
| | | 223 | 11250K |
| | | 224 | 11300K |
| | | 225 | 11350K |
| | | 226 | 11400K |
| | | 227 | 11450K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **32** | Color Temperature 2 (continued) | 228 | 11500K |
| | | 229 | 11550K |
| | | 230 | 11600K |
| | | 231 | 11650K |
| | | 232 | 11700K |
| | | 233 | 11750K |
| | | 234 | 11800K |
| | | 235 | 11850K |
| | | 236 | 11900K |
| | | 237 | 11950K |
| | | 238 | 12000K |
| | | 239 | 12050K |
| | | 240 | 12100K |
| | | 241 | 12150K |
| | | 242 | 12200K |
| | | 243 | 12250K |
| | | 244 | 12300K |
| | | 245 | 12350K |
| | | 246 | 12400K |
| | | 247 | 12450K |
| | | 248 | 12500K |
| | | 249 | 12550K |
| | | 250 | 12600K |
| | | 251 | 12650K |
| | | 252 | 12700K |
| | | 253 | 12750K |
| | | 254 | 12800K |
| | | 255 | 12850K |
| **33** | Tint 2 | 0 | -050 |
| | | 1–62 | -050 … -025 |
| | | 63–64 | -025 |
| | | 65–126 | -025 … 0 |
| | | 127–128 | 0 |
| | | 129–190 | 0 … +025 |
| | | 191–192 | +025 |
| | | 193–254 | +025 … +050 |
| | | 255 | +050 |
| **34** | Colors 2 | 0–10 | Color Selection: Open |
| | | 11–12 | Moroccan Pink |
| | | 13–14 | Pink |
| | | 15–16 | Special Rose Pink |
| | | 17–18 | Follies Pink |

| CH | Function | DMX | Description |
|---|---|---|---|
| **34** | Colors 2 (continued) | 19–20 | Fuchsia Pink |
| | | 21–22 | Surprise Pink |
| | | 23–24 | Congo Blue |
| | | 25–26 | Tokyo Blue |
| | | 27–28 | Deep Blue |
| | | 29–30 | Just Blue |
| | | 31–32 | Medium Blue |
| | | 33–34 | Double CT Blue |
| | | 35–36 | Slate Blue |
| | | 37–38 | Full CT Blue |
| | | 39–40 | Half CT Blue |
| | | 41–42 | Steel Blue |
| | | 43–44 | Lighter Blue |
| | | 45–46 | Light Blue |
| | | 47–48 | Medium Blue Green |
| | | 49–50 | Dark Green |
| | | 51–52 | Primary Green |
| | | 53–54 | Moss Green |
| | | 55–56 | Fern Green |
| | | 57–58 | Jas Green |
| | | 59–60 | Lime Green |
| | | 61–62 | Spring Yellow |
| | | 63–64 | Deep Amber |
| | | 65–66 | Chrome Orange |
| | | 67–68 | Orange |
| | | 69–70 | Gold Amber |
| | | 71–72 | Millennium Gold |
| | | 73–74 | Deep Golden Amber |
| | | 75–76 | Flame Red |
| | | 77–78 | Red Magenta |
| | | 79–80 | Medium Lavender |
| | | 81–82 | Pure White |
| | | 83–84 | Pure Red |
| | | 85–86 | Pure Yellow |
| | | 87–88 | Pure Green |
| | | 89–90 | Pure Cyan |
| | | 91–92 | Pure Blue |
| | | 93–94 | Pure Magenta |
| | | 95–96 | Peacock Blue |
| | | 97–98 | Dark Lavender |
| | | 99–100 | Double CT Orange |
| | | 101–102 | Full CT Orange |

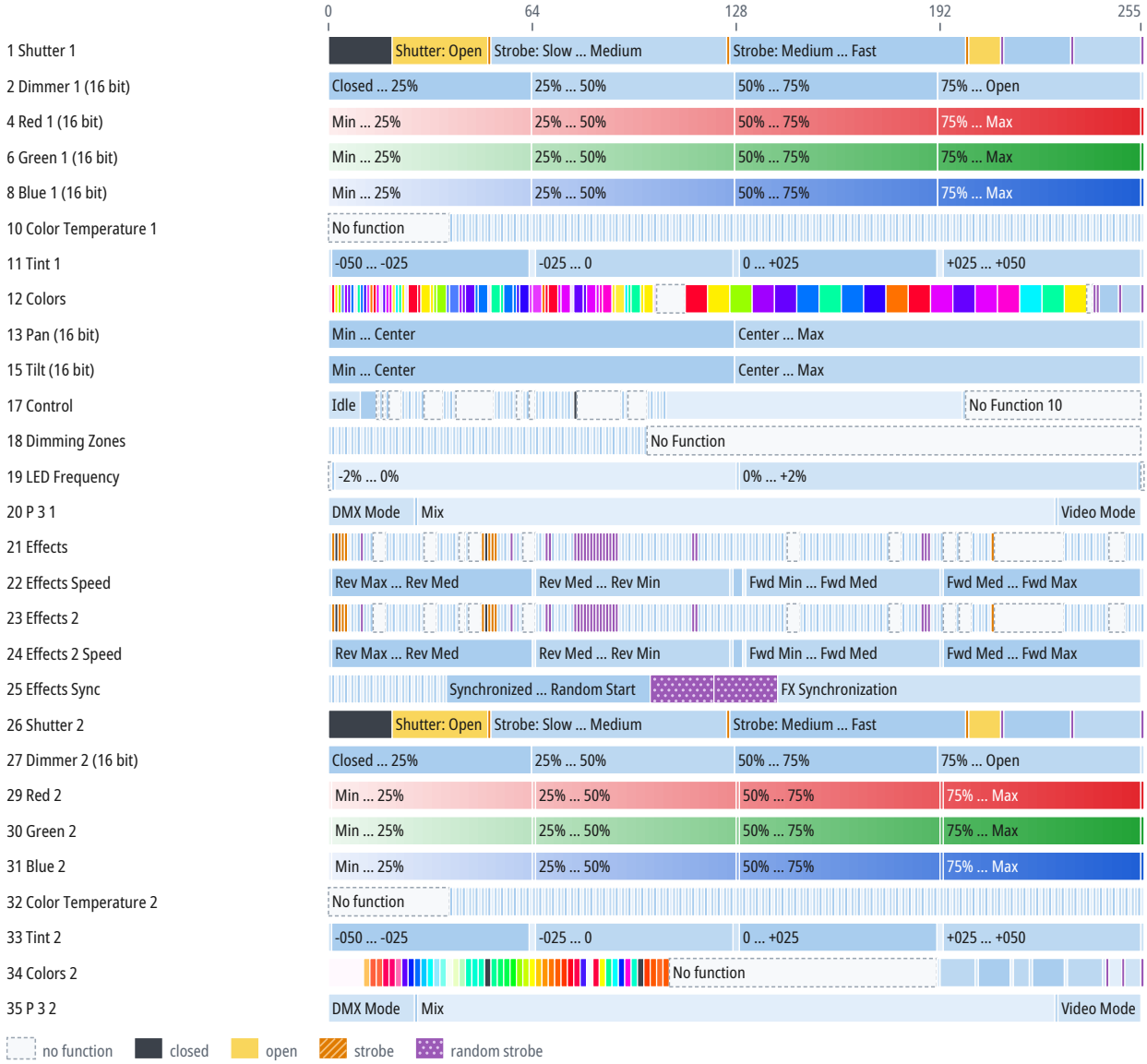
| CH | Function | DMX | Description |
|---|---|---|---|
| **34** | Colors 2 (continued) | 103–104 | Half CT Orange |
| | | 105–106 | Deep Straw |
| | | 107–190 | No function |
| | | 191 | CW Max |
| | | 192–202 | CW Max ... CW Med |
| | | 203 | CW Med |
| | | 204–213 | CW Med ... CW Min |
| | | 214 | CW Min |
| | | 215–219 | Color Spin: Stop |
| | | 220 | CCW Min |
| | | 221–230 | CCW Min ... CCW Med |
| | | 231 | CCW Med |
| | | 232–242 | CCW Med ... CCW Max |
| | | 243 | CCW Max |
| | | 244 | Color Random: Fast |
| | | 245–248 | Fast ... Medium |
| | | 249 | Medium |
| | | 250–254 | Medium ... Slow |
| | | 255 | Color Random: Slow |
| **35** | P 3 2 | 0–26 | DMX Mode |
| | | 27 | DMX |
| | | 28–227 | Mix |
| | | 228 | Video |
| | | 229–255 | Video Mode |

## Mode Ludicrous

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Shutter 1 at 20–49 or 201–210 “Open”; CH 2 Dimmer 1 above 0; CH 26 Shutter 2 at 20–49 or 201–210 “Open”; CH 27 Dimmer 2 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Shutter 1 30, CH 2 Dimmer 1 255, CH 4 Red 1 255, CH 6 Green 1 255, CH 8 Blue 1 255, CH 10 Color Temperature 1 148, CH 12 Colors 0, CH 26 Shutter 2 30, CH 27 Dimmer 2 255, CH 29 Red 2 255, CH 30 Green 2 255, CH 31 Blue 2 255, CH 32 Color Temperature 2 128, CH 34 Colors 2 0, CH 36 Red 255 (the same in each of the 24 cells), CH 37 Green 255 (the same in each of the 24 cells), CH 38 Blue 255 (the same in each of the 24 cells).

### Channel functions at a glance




| CH | Function | DMX | Description |
|---|---|---|---|
| **1** | Shutter 1 | | Same as CH 1 in the mode “Basic” (p. 26) |
| **2** | Dimmer 1 | | Same as CH 2 in the mode “Basic” (p. 27) |
| **3** | Dimmer 1 Fine | 0–255 | Fine adjustment of CH 2 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **4** | Red 1 | | Same as CH 4 in the mode “Basic” (p. 27) |
| **5** | Red 1 Fine | 0–255 | Fine adjustment of CH 4 |
| **6** | Green 1 | | Same as CH 6 in the mode “Basic” (p. 27) |
| **7** | Green 1 Fine | 0–255 | Fine adjustment of CH 6 |
| **8** | Blue 1 | | Same as CH 8 in the mode “Basic” (p. 27) |
| **9** | Blue 1 Fine | 0–255 | Fine adjustment of CH 8 |
| **10** | Color Temperature 1 | | Same as CH 10 in the mode “Basic” (p. 27) |
| **11** | Tint 1 | | Same as CH 11 in the mode “Basic” (p. 32) |
| **12** | Colors | | Same as CH 12 in the mode “Compact” (p. 18) |
| **13** | Pan | | Same as CH 13 in the mode “Compact” (p. 21) |
| **14** | Pan Fine | 0–255 | Fine adjustment of CH 13 |
| **15** | Tilt | | Same as CH 15 in the mode “Compact” (p. 21) |
| **16** | Tilt Fine | 0–255 | Fine adjustment of CH 15 |
| **17** | Control | | Same as CH 17 in the mode “Compact” (p. 21) |
| **18** | Dimming Zones | | Same as CH 18 in the mode “Compact” (p. 22) |
| **19** | LED Frequency | | Same as CH 19 in the mode “Compact” (p. 25) |
| **20** | P 3 1 | | Same as CH 20 in the mode “Basic” (p. 33) |
| **21** | Effects | | Same as CH 21 in the mode “Basic” (p. 33) |
| **22** | Effects Speed | | Same as CH 22 in the mode “Basic” (p. 38) |
| **23** | Effects 2 | | Same as CH 23 in the mode “Basic” (p. 42) |
| **24** | Effects 2 Speed | | Same as CH 24 in the mode “Basic” (p. 47) |
| **25** | Effects Sync | | Same as CH 25 in the mode “Basic” (p. 52) |
| **26** | Shutter 2 | | Same as CH 26 in the mode “Basic” (p. 53) |
| **27** | Dimmer 2 | | Same as CH 27 in the mode “Basic” (p. 53) |
| **28** | Dimmer 2 Fine | 0–255 | Fine adjustment of CH 27 |
| **29** | Red 2 | | Same as CH 29 in the mode “Basic” (p. 53) |
| **30** | Green 2 | | Same as CH 30 in the mode “Basic” (p. 54) |
| **31** | Blue 2 | | Same as CH 31 in the mode “Basic” (p. 54) |
| **32** | Color Temperature 2 | | Same as CH 32 in the mode “Basic” (p. 54) |
| **33** | Tint 2 | | Same as CH 33 in the mode “Basic” (p. 59) |
| **34** | Colors 2 | | Same as CH 34 in the mode “Basic” (p. 59) |
| **35** | P 3 2 | | Same as CH 35 in the mode “Basic” (p. 61) |
| **36** | Red 3 | 0 | Min |
| | | 1–63 | Min … 25% |
| | | 64 | 25% |
| | | 65–127 | 25% … 50% |
| | | 128 | 50% |
| | | 129–191 | 50% … 75% |
| | | 192 | 75% |
| | | 193–254 | 75% … Max |
| | | 255 | Max |

| CH | Function | DMX | Description |
|---|---|---|---|
| **37** | Green 3 | 0 | Min |
| | | 1–63 | Min … 25% |
| | | 64 | 25% |
| | | 65–127 | 25% … 50% |
| | | 128 | 50% |
| | | 129–191 | 50% … 75% |
| | | 192 | 75% |
| | | 193–254 | 75% … Max |
| | | 255 | Max |
| **38** | Blue 3 | 0 | Min |
| | | 1–63 | Min … 25% |
| | | 64 | 25% |
| | | 65–127 | 25% … 50% |
| | | 128 | 50% |
| | | 129–191 | 50% … 75% |
| | | 192 | 75% |
| | | 193–254 | 75% … Max |
| | | 255 | Max |

CH 36–107: 24 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 36–38); the table below gives each cell's channel numbers.

| Cell | Red | Green | Blue | Cell | Red | Green | Blue | Cell | Red | Green | Blue |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 36 | 37 | 38 | 2 | 39 | 40 | 41 | 3 | 42 | 43 | 44 |
| 4 | 45 | 46 | 47 | 5 | 48 | 49 | 50 | 6 | 51 | 52 | 53 |
| 7 | 54 | 55 | 56 | 8 | 57 | 58 | 59 | 9 | 60 | 61 | 62 |
| 10 | 63 | 64 | 65 | 11 | 66 | 67 | 68 | 12 | 69 | 70 | 71 |
| 13 | 72 | 73 | 74 | 14 | 75 | 76 | 77 | 15 | 78 | 79 | 80 |
| 16 | 81 | 82 | 83 | 17 | 84 | 85 | 86 | 18 | 87 | 88 | 89 |
| 19 | 90 | 91 | 92 | 20 | 93 | 94 | 95 | 21 | 96 | 97 | 98 |
| 22 | 99 | 100 | 101 | 23 | 102 | 103 | 104 | 24 | 105 | 106 | 107 |

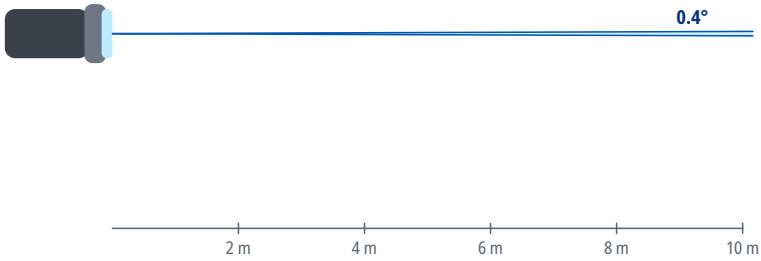
# 10 Technical specifications

| Parameter | Value |
|---|---|
| **Light** | |
| Light source | LED |
| **Movement** | |
| Pan | 540° |
| Tilt | 225° |
| **Control** | |
| DMX connection | 5-pin XLR IN/OUT |
| RJ45 connectors | etherCON IN/OUT |
| RDM | yes (manufacturer ID 0x4D50, device model ID 0x00CF) |
| **Electrical** | |
| Power supply | 100–240 V, 50/60 Hz |
| Power consumption | 45 W |
| Power connectors | powerCONTRUE1TOP IN |
| **Dimensions and construction** | |
| Weight | 5 kg |
| **Operating environment** | |
| Operating temperature | 5 to 40 °C |

### Speeds and ranges

| Parameter | Value |
|---|---|
| Color temperature range | 2000–12850 K |
| Strobe frequency | 1–20 Hz |
| Color wheel 2 rotation | up to 73.5 °/s (12 rpm) |

### Spot diameter




| Distance | Ø 0.4° |
|---|---|
| 2 m | 0.01 m |
| 4 m | 0.03 m |
| 6 m | 0.04 m |
| 8 m | 0.06 m |
| 10 m | 0.07 m |
| 15 m | 0.1 m |

Spot diameter square to the beam axis, calculated from the beam angle.

# 11 Maintenance and cleaning

- Before cleaning and maintenance, switch the device off, disconnect it from the power supply and let it cool down.

- Clean the housing with a soft, dry or slightly damp cloth. Do not use solvents, abrasive cleaners or pressure washers, and make sure no liquid gets into the device.
- Clean optical parts (lenses, front glass), if the device has any, with a soft lint-free cloth and a cleaner intended for optics or glass.
- Regularly inspect the housing, cables, connectors and fixings. Have damaged parts replaced by a service center.
- How often to clean depends on the environment; dust, smoke and fog make the device dirty much faster.

# 12 Troubleshooting

| Problem | Remedy |
|---|---|
| The device does not switch on | Check the supply voltage, the cables and the fuse, if the device has one. |
| The device does not respond to DMX | Check the start address, the selected DMX mode and whether it matches the profile in the controller, the cable connection to DMX IN, and the controller output (universe). |
| The device behaves erratically or flickers | Check the terminator at the end of the line, the condition and wiring of the cables (shield on pin 1 only), the number of devices on the line (32 at most), and that the line is not split without a splitter. |
| Only some devices on the line respond | Check the cable and connectors between the last working and the first non-working device, and make sure all devices on the line are switched on. |
| Devices respond to the wrong channels or affect each other | Check that the addresses do not overlap and that the DMX mode on the devices matches the patch in the controller. |
| The device or the connected load does not light up although it receives DMX | Check the values of the dimmer, shutter and strobe channels against the DMX channel table. For the DMX modes for which the sources state it, the chapter DMX channels gives under the mode's heading which channels must be open. |
| Movement is reversed | Check whether Pan/Tilt inversion is enabled in the device menu or in the controller. |
| Moving parts do not reach the correct position after power-on or transport | Switch the device off and on again to reset the position, and make sure the transport lock, if any, is released. If this does not help, contact a service center. |
| Movement is jerky | Check the value of the Pan/Tilt speed channel, if the device has one, and the stability of the DMX signal. |

# 13 Disposal

The crossed-out wheeled bin symbol on the product, in the manual or on the packaging means that the product must not be disposed of with unsorted household waste at the end of its life.

Take the end-of-life equipment to a collection point, for example a municipal collection site or a retailer. Proper disposal enables materials to be recycled and helps prevent possible negative effects on the environment and human health.

Follow the regulations applicable in your country; in the Czech Republic, take-back is governed by Act No. 542/2020 Coll., on End-of-Life Products.

Recycle the packaging materials according to their type.