DMX REFERENCE

# FINE 2000 PERF

Fine Art



| | |
|---|---|
| **Manufacturer** | Fine Art |
| **GDTF file** | Fine_Art_FINE_2000_PERF_111279.gdtf |
| **GDTF revision** | Edited channel geometry · 2025-09-19 |
| **Generated** | 2026-11-24 |

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# 1 About this manual

This document describes the FINE 2000 PERF by Fine Art. It was compiled from the GDTF file Fine_Art_FINE_2000_PERF_111279.gdtf from the GDTF-Share library.

File revision: “Edited channel geometry”.

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 Fine Art; 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 |
|---|---|
| Weight | 40.4 kg |

### DMX modes

| Mode | Channels | Units in one universe | First start addresses |
|---|---|---|---|
| 8bit 28ch | 28 | 18 | 1, 29, 57, 85, ... |
| 16bit 31ch | 31 | 16 | 1, 32, 63, 94, ... |

### No light? Check these channels

- 8bit 28ch: CH 1 Shutter at 20–49 or 73–78 or 79 or 120–127, 203–207, 218–227, 238–254 “Shutter Open” or 228–237 “Lamp On”
- 16bit 31ch: CH 1 Shutter at 20–49 or 73–78 or 79 or 120–127, 203–207, 218–227, 238–254 “Shutter Open” or 228–237 “Lamp On”


Read the manual before use


Do not stare into the light


Indoor use only

# 3 Safety instructions



Read the manual before use



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**

- 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**

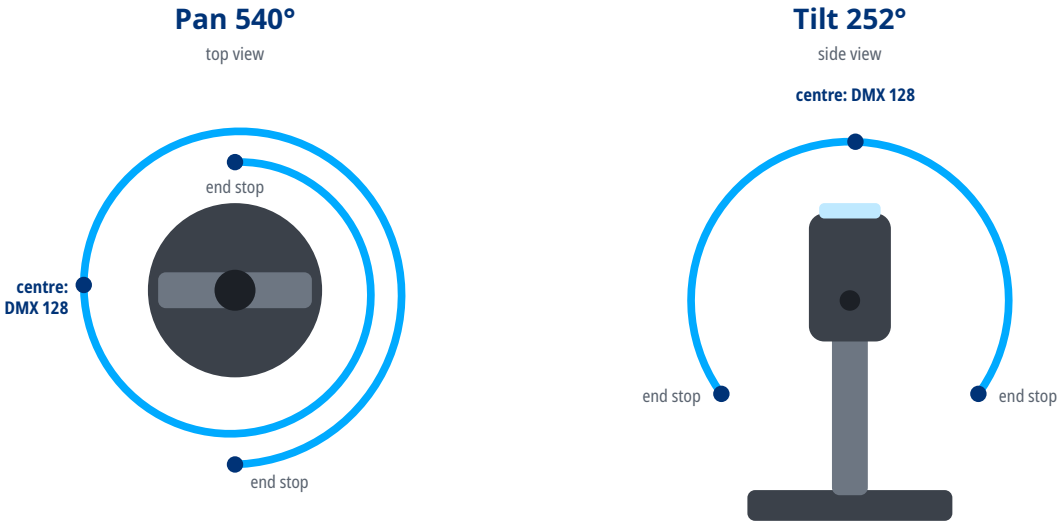
- Strobe and fast flashing light effects can trigger epileptic seizures in susceptible people (photosensitive epilepsy) and can cause nausea or disorientation.
- Inform the audience and performers in advance that strobe effects will be used, for example with a notice at the entrance, and do not use them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




# 5 Installation

**⚠ WARNING**

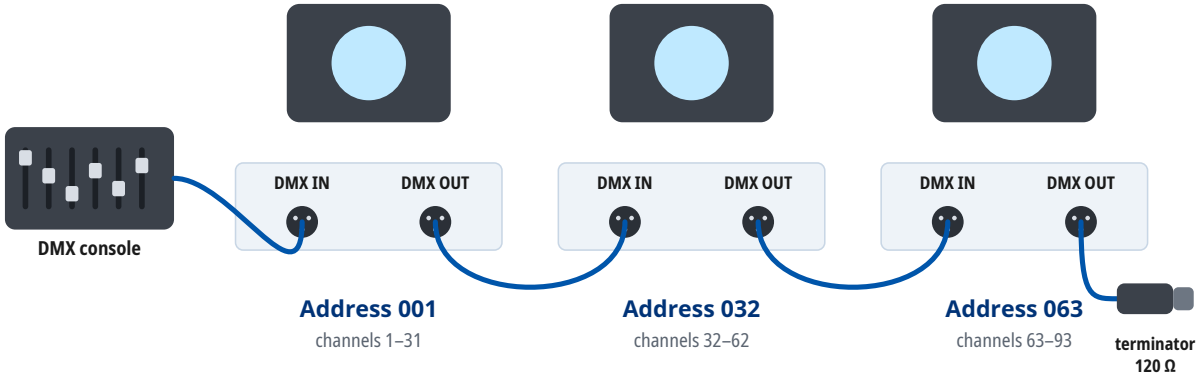
- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 40.4 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 16bit 31ch: every unit occupies 31 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 “16bit 31ch”: 31.
- 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 “16bit 31ch”, you can use, for example, the start addresses 1, 32, 63, 94.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

# 8 Functions at a glance

## Functions in each DMX mode

| | 8bit 28ch<br>28 channels | 16bit 31ch<br>31 channels |
|---|---|---|
| Pan / Tilt | **25, 26** | **26, 28** |
| Pan / Tilt resolution | 8 bit | 16 bit |
| Dimmer | **2** | **2** |
| Shutter / strobe | **1** | **1** |
| Color mixing | **3–5** | **3–5** |
| Color temperature | **6** | **6** |
| Gobo wheel | **7** | **7** |
| Gobo rotation | **8 *** | **8 *** |
| Frost | **11** | **12** |
| Zoom | **15** | **16** |
| Focus | **14** | **15** |
| Iris | **12** | **13** |
| Animation wheel | **9, 10** | **10, 11** |
| Effects / macros | **13** | **14** |

* The function works only when another channel switches it on; see the DMX table.

## Gobo wheel



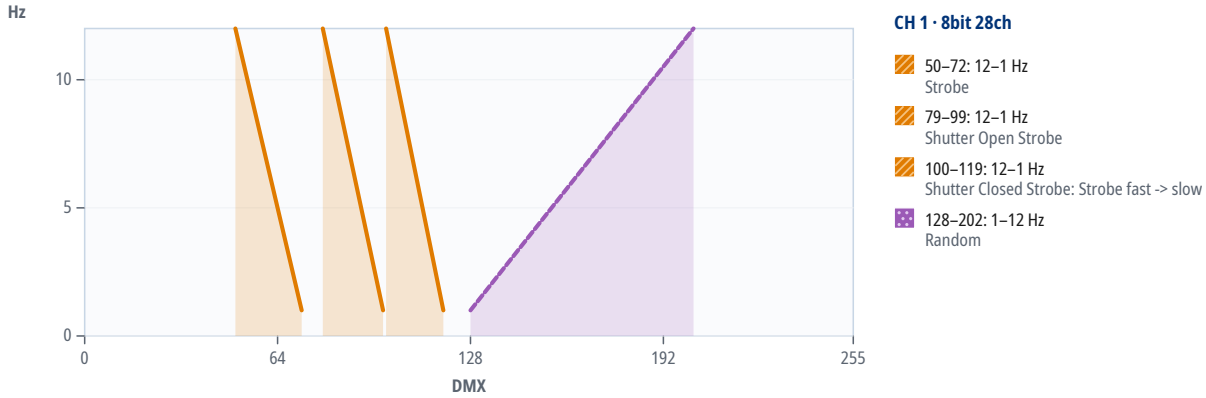
1 Gobo: Open **DMX 0–9**
2 Gobo 1 **DMX 10–14**
3 Gobo 2 **DMX 15–19**
4 Gobo 3 **DMX 20–24**
5 Gobo 4 **DMX 25–29**
6 G5 **DMX 30–35**

## Animation wheel



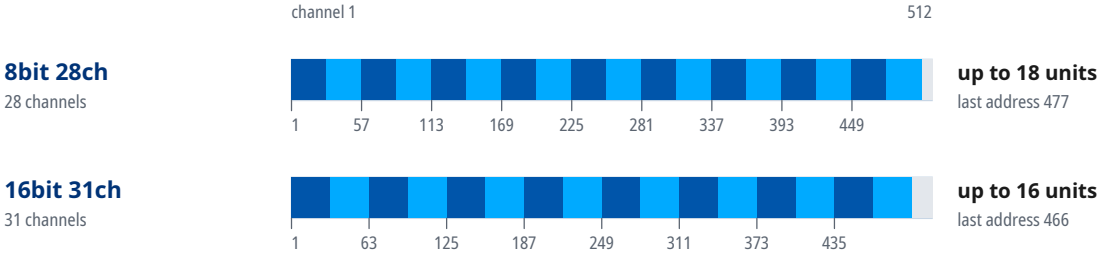
1 Open 1 **DMX 0–9**
2 Tilt index **DMX 10–19**

### Strobe rate




# 9 DMX channels

### Units in one DMX universe




### Start addresses of 20 units in the mode “16bit 31ch”

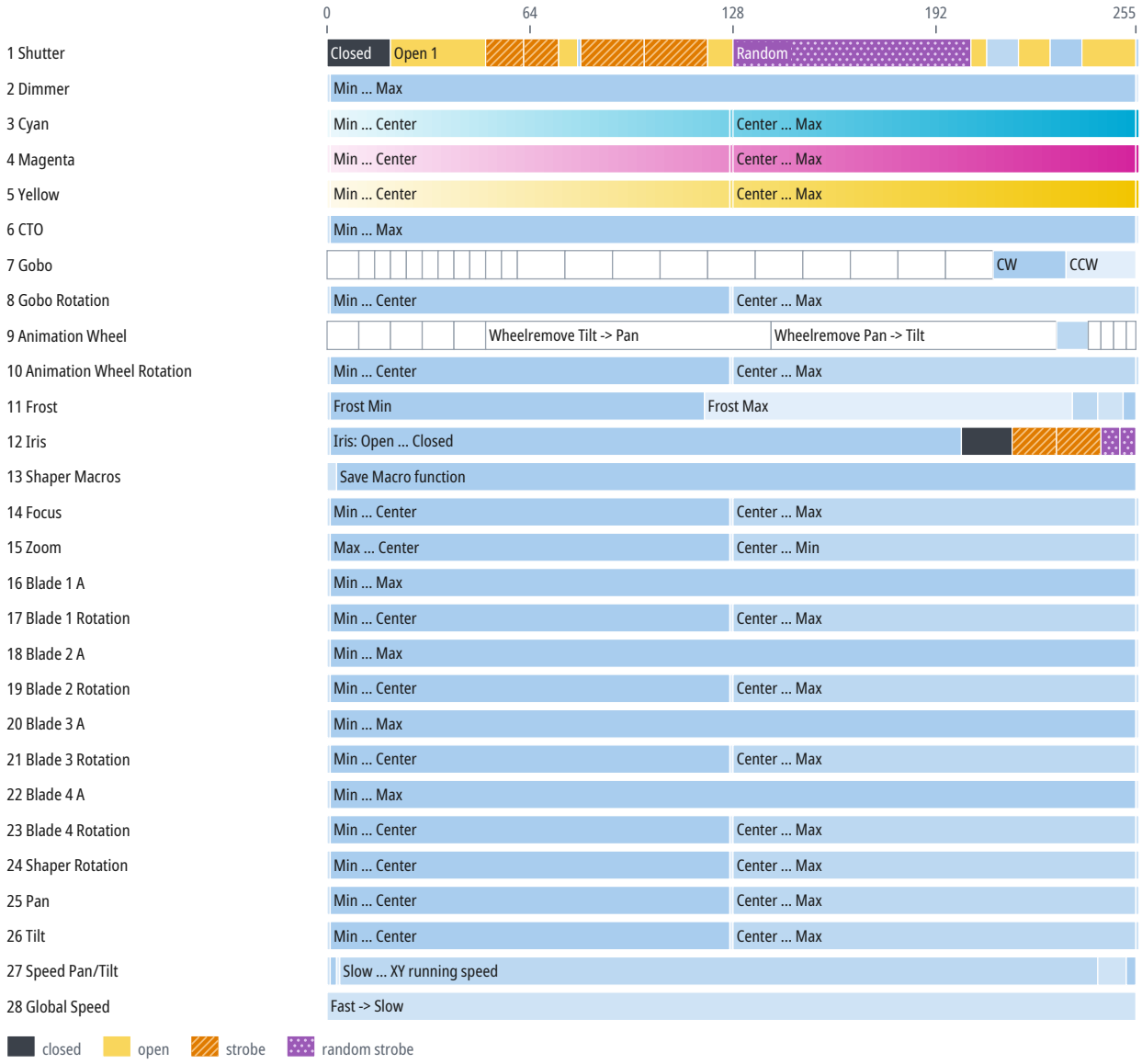
| Unit | Start address | Unit | Start address | Unit | Start address | Unit | Start address |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 6 | 156 | 11 | 311 | 16 | 466 |
| 2 | 32 | 7 | 187 | 12 | 342 | 17 | U2 · 1 |
| 3 | 63 | 8 | 218 | 13 | 373 | 18 | U2 · 32 |
| 4 | 94 | 9 | 249 | 14 | 404 | 19 | U2 · 63 |
| 5 | 125 | 10 | 280 | 15 | 435 | 20 | U2 · 94 |

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.

## Mode 8bit 28ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Shutter at 20–49 or 73–78 or 79 or 120–127, 203–207, 218–227, 238–254 “Shutter Open” or 228–237 “Lamp On”. The GDTF file gives these values for a console's Highlight function: CH 1 Shutter 20, CH 2 Dimmer 100, CH 3 Cyan 0, CH 4 Magenta 0, CH 5 Yellow 0, CH 6 CTO 0.

### Channel functions at a glance




| CH | Function | DMX | Description |
|---|---|---|---|
| **1** | Shutter | 0–19 | Closed |
| | | 20–49 | Open 1 |
| | | 50–61 | Strobe fast |
| | | 62–72 | Strobe slow |
| | | 73–78 | Open 2 |
| | | 79 | Shutter Open Strobe |
| | | 80–99 | Shutter Open Strobe: Strobe fast -> slow |
| | | 100–119 | Shutter Closed Strobe: Strobe fast -> slow (12–1 Hz) |

| CH | Function | DMX | Description |
|---|---|---|---|
| **1** | Shutter (continued) | 120–127 | Shutter Open |
| | | 128–202 | Random (1–12 Hz) |
| | | 203–207 | Shutter Open |
| | | 208–217 | Reset |
| | | 218–227 | Shutter Open |
| | | 228–237 | Lamp On |
| | | 238–254 | Shutter Open |
| | | 255 | Lamp Off |
| **2** | Dimmer | 0 | Min |
| | | 1–254 | Min ... Max |
| | | 255 | Max |
| **3** | Cyan | 0 | Min |
| | | 1–126 | Min ... Center |
| | | 127 | Center |
| | | 128–254 | Center ... Max |
| | | 255 | Max |
| **4** | Magenta | 0 | Min |
| | | 1–126 | Min ... Center |
| | | 127 | Center |
| | | 128–254 | Center ... Max |
| | | 255 | Max |
| **5** | Yellow | 0 | Min |
| | | 1–126 | Min ... Center |
| | | 127 | Center |
| | | 128–254 | Center ... Max |
| | | 255 | Max |
| **6** | CTO | 0 | Min |
| | | 1–254 | Min ... Max |
| | | 255 | Max |
| **7** | Gobo | 0–9 | Gobo: Open |
| | | 10–14 | Gobo 1 |
| | | 15–19 | Gobo 2 |
| | | 20–24 | Gobo 3 |
| | | 25–29 | Gobo 4 |
| | | 30–34 | Gobo 5 |
| | | 35–39 | Gobo 1 Rotating: Gobo 1 |
| | | 40–44 | Gobo 1 Rotating: Gobo 2 |
| | | 45–49 | Gobo 1 Rotating: Gobo 3 |
| | | 50–54 | Gobo 1 Rotating: Gobo 4 |
| | | 55–59 | Gobo 1 Rotating: Gobo 5 |
| | | 60–74 | Gobo 1 Shake (0.1–5 Hz) |
| | | 75–89 | Gobo 2 Shake (0.1–5 Hz) |

| CH | Function | DMX | Description |
|---|---|---|---|
| **7** | Gobo (continued) | 90–104 | Gobo 3 Shake (0.1–5 Hz) |
| | | 105–119 | Gobo 4 Shake (0.1–5 Hz) |
| | | 120–134 | Gobo 5 Shake (0.1–5 Hz) |
| | | 135–149 | Gobo 1 Rotating Shake (0.1–5 Hz) |
| | | 150–164 | Gobo 2 Rotating Shake (0.1–5 Hz) |
| | | 165–179 | Gobo 3 Rotating Shake (0.1–5 Hz) |
| | | 180–194 | Gobo 4 Rotating Shake (0.1–5 Hz) |
| | | 195–209 | Gobo 5 Rotating Shake (0.1–5 Hz) |
| | | 210–232 | CW (900–0.2 °/s) |
| | | 233–255 | CCW (0.2–900 °/s) |
| **8** | Gobo Rotation | | When CH 7 is 0–34: |
| | | 0 | Min |
| | | 1–126 | Min ... Center |
| | | 127 | Center |
| | | 128–254 | Center ... Max |
| | | 255 | Max |
| | | | When CH 7 is 60–209: |
| | | 0 | Min |
| | | 1–126 | Min ... Center |
| | | 127 | Center |
| | | 128–254 | Center ... Max |
| | | 255 | Max |
| | | | When CH 7 is 35–59: |
| | | 0–2 | Stop 1 |
| | | 3–126 | CW (900–0.2 °/s) |
| | | 127–129 | Stop 2 |
| | | 130–252 | CCW (0.2–900 °/s) |
| | | 253–255 | Stop 3 |
| **9** | Animation Wheel | | Animation 1 |
| | | 0–9 | Open 1 |
| | | 10–19 | Tilt index |
| | | 20–29 | Pan index |
| | | 30–39 | Tilt continuous |
| | | 40–49 | Pan continuous |
| | | 50–139 | Wheelremove Tilt -> Pan |
| | | 140–229 | Wheelremove Pan -> Tilt |
| | | 230–239 | Wheelremove Pan -> Tilt ... Macro 1 |
| | | 240–243 | Macro 1 |
| | | 244–247 | Macro 2 |
| | | 248–251 | Macro 3 |
| | | 252–255 | Macro 4 |
| **10** | Animation Wheel Rotation | | When CH 9 is 0–29: |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Animation Wheel Rotation (continued) | 0 | Min |
| | | 1–126 | Min ... Center |
| | | 127 | Center |
| | | 128–254 | Center ... Max |
| | | 255 | Max |
| | | | When CH 9 is 30–229: |
| | | 0–2 | Stop 1 |
| | | 3–126 | CW (600–0.2 °/s) |
| | | 127–129 | Stop 2 |
| | | 130–253 | CCW (0.2–600 °/s) |
| | | 254–255 | Stop 3 |
| **11** | Frost | 0 | Open 1 |
| | | 1–118 | Frost Min |
| | | 119–234 | Frost Max |
| | | 235–242 | Effect 1 |
| | | 243–250 | Effect 2 |
| | | 251–255 | Open 2 |
| **12** | Iris | 0 | Iris: Open |
| | | 1–199 | Iris: Open ... Closed |
| | | 200–215 | Iris: Closed |
| | | 216–229 | Pulse Open Fast -> Slow (1–5 Hz) |
| | | 230–243 | Pulse Close Fast -> Slow (1–5 Hz) |
| | | 244–249 | Pulse Random Open (1–5 Hz) |
| | | 250–255 | Pulse Random Close (1–5 Hz) |
| **13** | Shaper Macros | 0–2 | Reserved |
| | | 3–255 | Save Macro function |
| **14** | Focus | 0 | Min |
| | | 1–126 | Min ... Center |
| | | 127 | Center |
| | | 128–254 | Center ... Max |
| | | 255 | Max |
| **15** | Zoom | 0 | Max |
| | | 1–126 | Max ... Center |
| | | 127 | Center |
| | | 128–254 | Center ... Min |
| | | 255 | Min |
| **16** | Blade 1 A | 0 | Min |
| | | 1–254 | Min ... Max |
| | | 255 | Max |
| **17** | Blade 1 Rotation | 0 | Min |
| | | 1–126 | Min ... Center |
| | | 127 | Center |

| CH | Function | DMX | Description |
|---|---|---|---|
| **17** | Blade 1 Rotation (continued) | 128–254 | Center … Max |
| | | 255 | Max |
| **18** | Blade 2 A | 0 | Min |
| | | 1–254 | Min … Max |
| | | 255 | Max |
| **19** | Blade 2 Rotation | 0 | Min |
| | | 1–126 | Min … Center |
| | | 127 | Center |
| | | 128–254 | Center … Max |
| | | 255 | Max |
| **20** | Blade 3 A | 0 | Min |
| | | 1–254 | Min … Max |
| | | 255 | Max |
| **21** | Blade 3 Rotation | 0 | Min |
| | | 1–126 | Min … Center |
| | | 127 | Center |
| | | 128–254 | Center … Max |
| | | 255 | Max |
| **22** | Blade 4 A | 0 | Min |
| | | 1–254 | Min … Max |
| | | 255 | Max |
| **23** | Blade 4 Rotation | 0 | Min |
| | | 1–126 | Min … Center |
| | | 127 | Center |
| | | 128–254 | Center … Max |
| | | 255 | Max |
| **24** | Shaper Rotation | 0 | Min |
| | | 1–126 | Min … Center |
| | | 127 | Center |
| | | 128–254 | Center … Max |
| | | 255 | Max |
| **25** | Pan | 0 | Min |
| | | 1–126 | Min … Center |
| | | 127 | Center |
| | | 128–254 | Center … Max |
| | | 255 | Max |
| **26** | Tilt | 0 | Min |
| | | 1–126 | Min … Center |
| | | 127 | Center |
| | | 128–254 | Center … Max |
| | | 255 | Max |
| **27** | Speed Pan/Tilt | | Movement Speed |

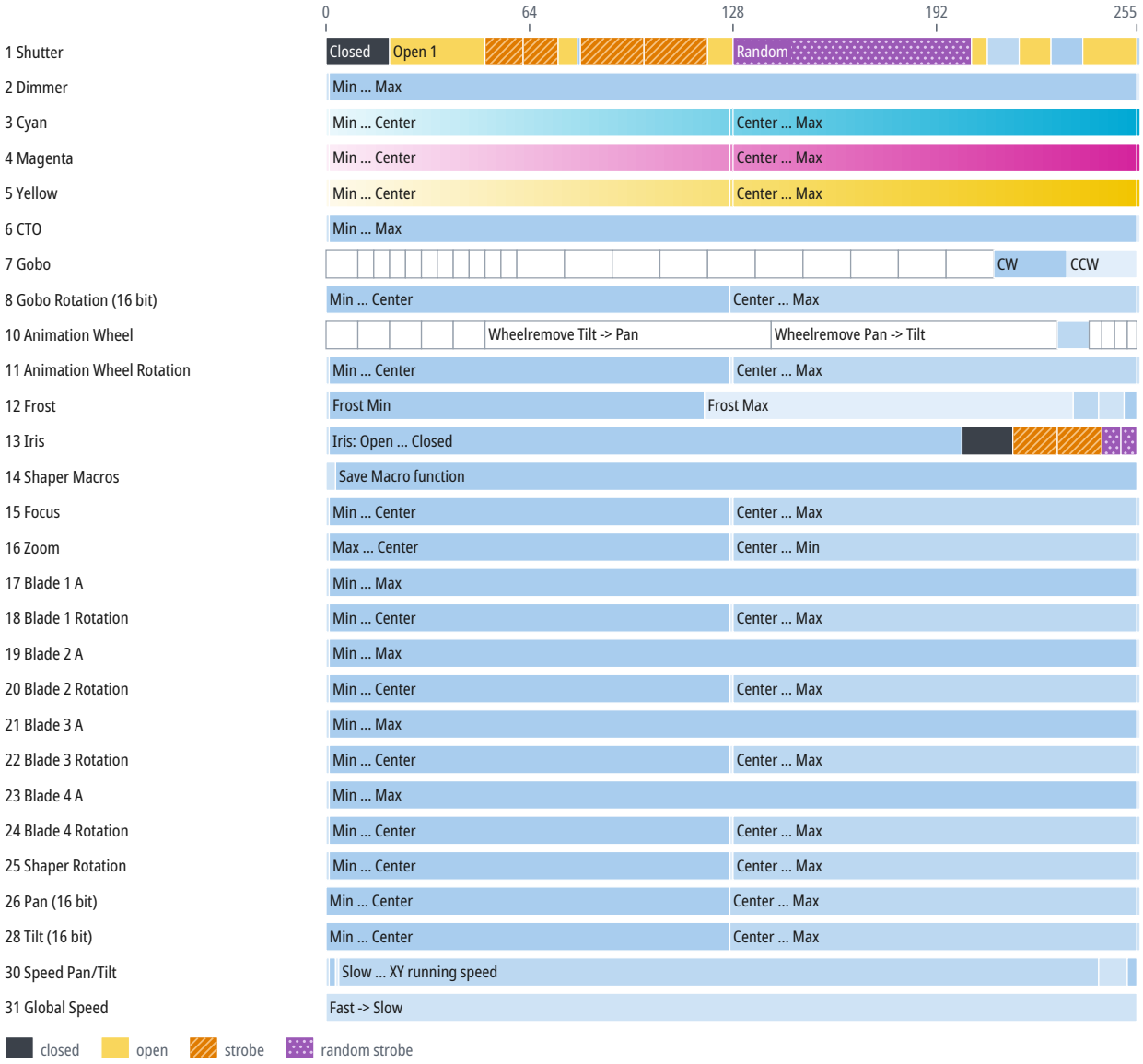
| CH | Function | DMX | Description |
|---|---|---|---|
| **27** | Speed Pan/Tilt (continued) | 0 | Fast |
| | | 1–2 | Fast ... slow |
| | | 3 | Slow |
| | | 4–242 | Slow ... XY running speed |
| | | 243–251 | XY running speed |
| | | 252–255 | XY shutter during running |
| **28** | Global Speed | | Effect Speed |
| | | 0–255 | Fast -> Slow |

## Mode 16bit 31ch

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 73–78 or 79 or 120–127, 203–207, 218–227, 238–254 “Shutter Open” or 228–237 “Lamp On”. The GDTF file gives these values for a console's Highlight function: CH 1 Shutter 20, CH 2 Dimmer 100, CH 3 Cyan 0, CH 4 Magenta 0, CH 5 Yellow 0, CH 6 CTO 0.

### Channel functions at a glance




| CH | Function | DMX | Description |
|---|---|---|---|
| **1** | Shutter | | Same as CH 1 in the mode “8bit 28ch” (p. 9) |
| **2** | Dimmer | | Same as CH 2 in the mode “8bit 28ch” (p. 10) |
| **3** | Cyan | | Same as CH 3 in the mode “8bit 28ch” (p. 10) |
| **4** | Magenta | | Same as CH 4 in the mode “8bit 28ch” (p. 10) |
| **5** | Yellow | | Same as CH 5 in the mode “8bit 28ch” (p. 10) |
| **6** | CTO | | Same as CH 6 in the mode “8bit 28ch” (p. 10) |

| CH | Function | DMX | Description |
|---|---|---|---|
| **7** | Gobo | | Same as CH 7 in the mode “8bit 28ch” (p. 10) |
| **8** | Gobo Rotation | | When CH 7 is 0–34: |
| | | 0–127 | Min ... Center |
| | | 127–255 | Center ... Max |
| | | 255 | Max |
| | | | When CH 7 is 60–209: |
| | | 0–127 | Min ... Center |
| | | 127–255 | Center ... Max |
| | | 255 | Max |
| | | | When CH 7 is 35–59: |
| | | 0–2 | Stop 1 |
| | | 3–126 | CW (900–0.2 °/s) |
| | | 127–129 | Stop 2 |
| | | 130–252 | CCW (0.2–900 °/s) |
| | | 253–255 | Stop 3 |
| **9** | Gobo Rotation Fine | 0–255 | Fine adjustment of CH 8 |
| **10** | Animation Wheel | | Same as CH 9 in the mode “8bit 28ch” (p. 11) |
| **11** | Animation Wheel Rotation | | When CH 10 is 0–29: |
| | | 0 | Min |
| | | 1–126 | Min ... Center |
| | | 127 | Center |
| | | 128–254 | Center ... Max |
| | | 255 | Max |
| | | | When CH 10 is 30–229: |
| | | 0–2 | Stop 1 |
| | | 3–126 | CW (600–0.2 °/s) |
| | | 127–129 | Stop 2 |
| | | 130–253 | CCW (0.2–600 °/s) |
| | | 254–255 | Stop 3 |
| **12** | Frost | | Same as CH 11 in the mode “8bit 28ch” (p. 12) |
| **13** | Iris | | Same as CH 12 in the mode “8bit 28ch” (p. 12) |
| **14** | Shaper Macros | | Same as CH 13 in the mode “8bit 28ch” (p. 12) |
| **15** | Focus | | Same as CH 14 in the mode “8bit 28ch” (p. 12) |
| **16** | Zoom | | Same as CH 15 in the mode “8bit 28ch” (p. 12) |
| **17** | Blade 1 A | | Same as CH 16 in the mode “8bit 28ch” (p. 12) |
| **18** | Blade 1 Rotation | | Same as CH 17 in the mode “8bit 28ch” (p. 12) |
| **19** | Blade 2 A | | Same as CH 18 in the mode “8bit 28ch” (p. 13) |
| **20** | Blade 2 Rotation | | Same as CH 19 in the mode “8bit 28ch” (p. 13) |
| **21** | Blade 3 A | | Same as CH 20 in the mode “8bit 28ch” (p. 13) |
| **22** | Blade 3 Rotation | | Same as CH 21 in the mode “8bit 28ch” (p. 13) |
| **23** | Blade 4 A | | Same as CH 22 in the mode “8bit 28ch” (p. 13) |
| **24** | Blade 4 Rotation | | Same as CH 23 in the mode “8bit 28ch” (p. 13) |

| CH | Function | DMX | Description |
|---|---|---|---|
| **25** | Shaper Rotation | | Same as CH 24 in the mode “8bit 28ch” (p. 13) |
| **26** | Pan | 0–127 | Min ... Center |
| | | 127–255 | Center ... Max |
| | | 255 | Max |
| **27** | Pan Fine | 0–255 | Fine adjustment of CH 26 |
| **28** | Tilt | 0–127 | Min ... Center |
| | | 127–255 | Center ... Max |
| | | 255 | Max |
| **29** | Tilt Fine | 0–255 | Fine adjustment of CH 28 |
| **30** | Speed Pan/Tilt | | Same as CH 27 in the mode “8bit 28ch” (p. 13) |
| **31** | Global Speed | | Same as CH 28 in the mode “8bit 28ch” (p. 14) |

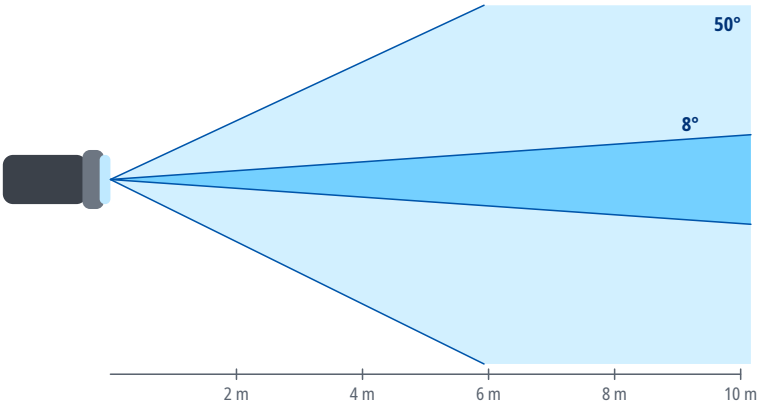
# 10 Technical specifications

| Parameter | Value |
|---|---|
| **Light** | |
| Light source | halogen lamp |
| Lamp power | 1,800 W |
| Luminous flux | 35,000 lm |
| Color temperature | 6,000 K |
| Color rendering index (CRI) | 90 |
| **Optics** | |
| Zoom | 8–50° |
| **Movement** | |
| Pan | 540° |
| Tilt | 252° |
| **Dimensions and construction** | |
| Weight | 40.4 kg |
| **Operating environment** | |
| Operating temperature | 0 to 40 °C |

### Speeds and ranges

| Parameter | Value |
|---|---|
| Color temperature range | 3200–6000 K |
| Strobe frequency | 1–12 Hz |
| Gobo wheel rotation | up to 900 °/s (150 rpm) |
| Gobo rotation | up to 900 °/s (150 rpm) |
| Animation wheel rotation | up to 600 °/s (100 rpm) |

### Spot diameter




| Distance | Ø 8° | Ø 50° |
|---|---|---|
| 2 m | 0.28 m | 1.9 m |
| 4 m | 0.56 m | 3.7 m |
| 6 m | 0.84 m | 5.6 m |
| 8 m | 1.1 m | 7.5 m |
| 10 m | 1.4 m | 9.3 m |
| 15 m | 2.1 m | 14 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.