DMX REFERENCE

# PHOTON BEAM 500 (XL 500 BEAM IP)

(XL 500 BEAM IP)

ACME



| | |
|---|---|
| **Manufacturer** | ACME |
| **GDTF file** | ACME_PHOTON_BEAM_500_XL_500_BEAM_IP_169522.gdtf |
| **GDTF revision** | V1.00 · 2026-11-16 |
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# 1 About this manual

This document describes the (XL 500 BEAM IP) by ACME. It was compiled from the GDTF file ACME_PHOTON_BEAM_500_XL_500_BEAM_IP_169522.gdtf from the GDTF-Share library.

File revision: “V1.00”.

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 ACME; 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 | 20 kg |

### DMX modes

| Mode | Channels | Units in one universe | First start addresses |
|---|---|---|---|
| Mode 1 26ch | 26 | 19 | 1, 27, 53, 79, ... |
| Mode 2 29CH | 29 | 17 | 1, 30, 59, 88, ... |

### No light? Check these channels

- Mode 1 26ch: CH 21 Shutter at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 22 Dimmer above 0
- Mode 2 29CH: CH 24 Shutter at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 25 Dimmer above 0


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**

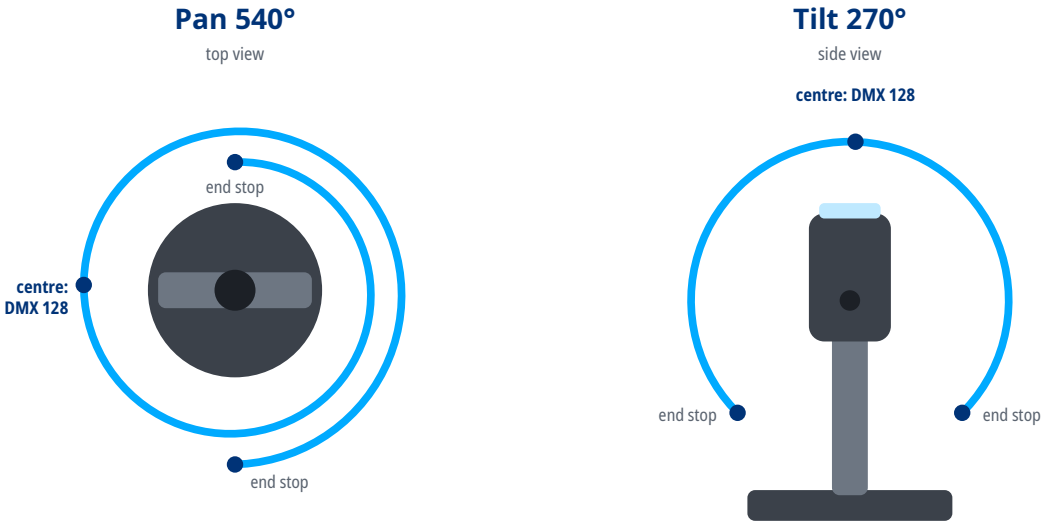
- Strobe and fast flashing light effects can trigger epileptic seizures in susceptible people (photosensitive epilepsy) and can cause nausea or disorientation.
- Inform the audience and performers in advance that strobe effects will be used, for example with a notice at the entrance, and do not use them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

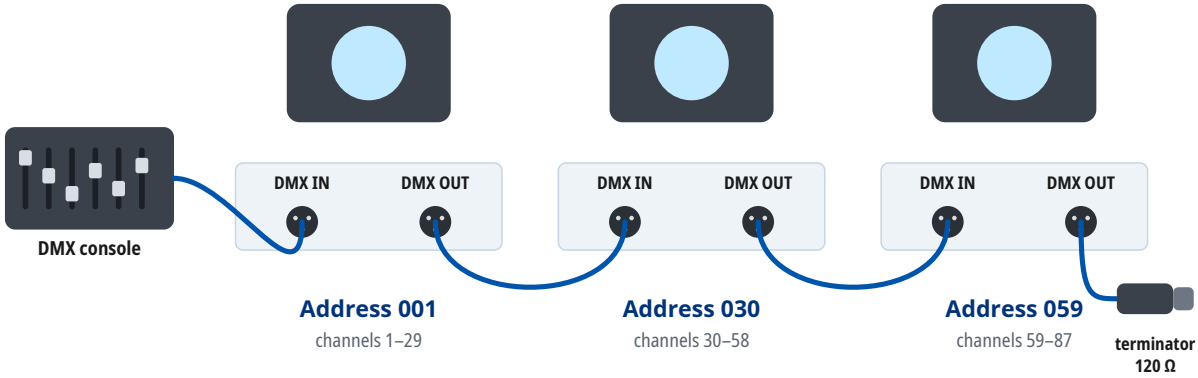
- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 20 kg.
- 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 2 29CH: every unit occupies 29 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**

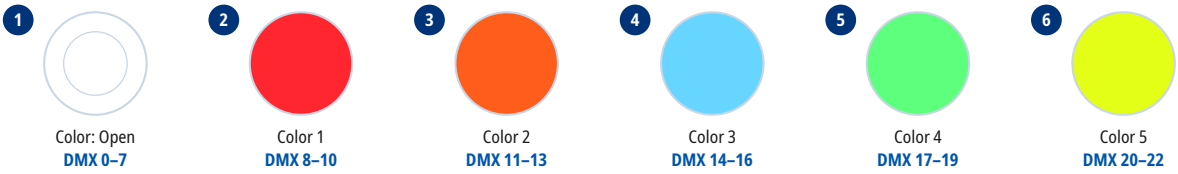
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Mode 2 29CH”: 29.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied 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 “Mode 2 29CH”, you can use, for example, the start addresses 1, 30, 59, 88.
- 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

| | Mode 1 26ch<br>26 channels | Mode 2 29CH<br>29 channels |
|---|---|---|
| Pan / Tilt | 1, 3, 5, 6 | 1, 3, 5, 6 |
| Dimmer | 22 | 25 |
| Shutter / strobe | 21 | 24 |
| Color mixing | 8–10 | 8, 10, 12 |
| Color temperature | 11 | 14 |
| Color wheel | 12 | 15 |
| Gobo wheel | 13 | 16 |
| Prism | 14–17 | 17–20 |
| Frost | 18 | 21 |
| Focus | 19 | 22 |

## Color wheel



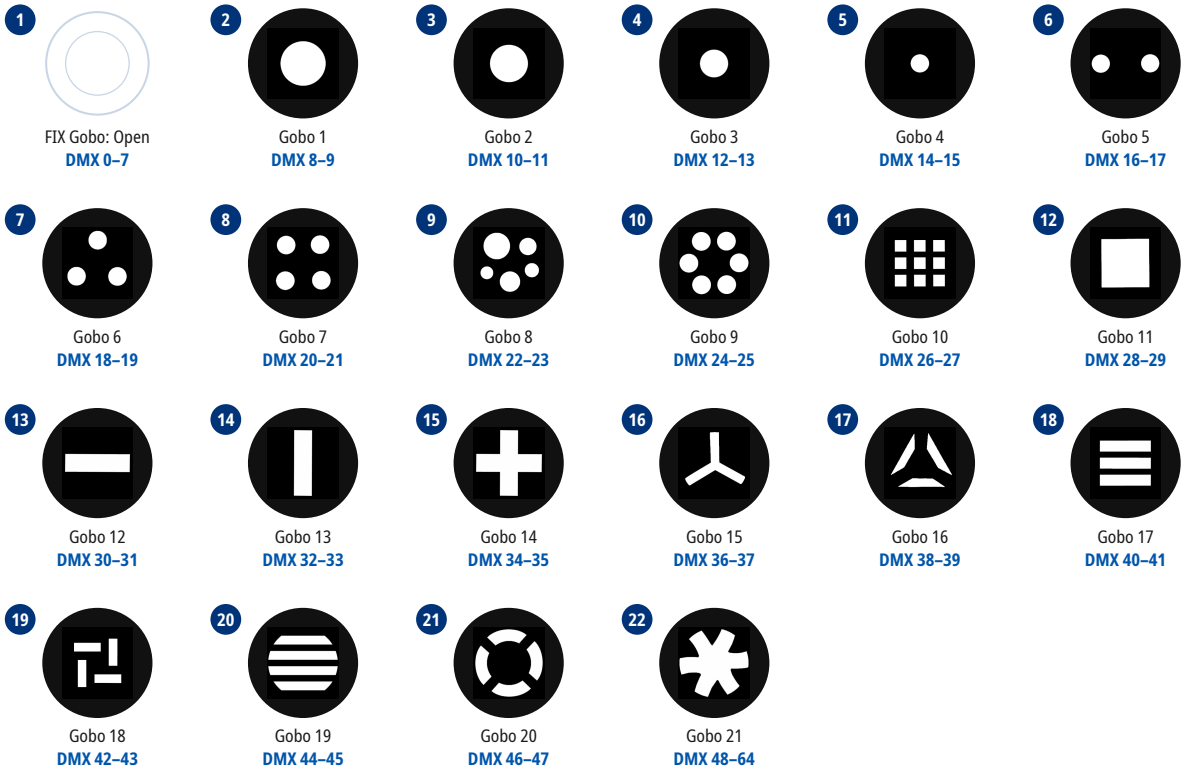
1 Color: Open DMX 0–7
2 Color 1 DMX 8–10
3 Color 2 DMX 11–13
4 Color 3 DMX 14–16
5 Color 4 DMX 17–19
6 Color 5 DMX 20–22
7 Color 6 DMX 23–25
8 Color 7 DMX 26–28
9 Color 8 DMX 29–31
10 Color 9 DMX 32–34
11 Color 10 DMX 35–37
12 Color 11 DMX 38–40
13 Color 12 DMX 41–43
14 Color 13 DMX 44–46
15 Color 14 DMX 47–49
16 Color 15 DMX 50–52
17 Color 16 DMX 53–55
18 Color 17 DMX 56–64

## Prism 1



1 Open DMX 0–8
2 8 facets Prism 1 DMX 8–255

## Gobo wheel



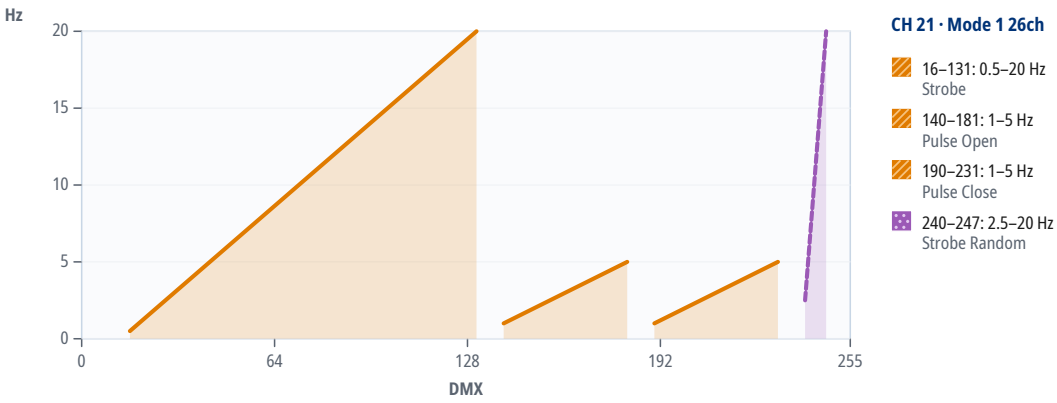
1 FIX Gobo: Open DMX 0–7
2 Gobo 1 DMX 8–9
3 Gobo 2 DMX 10–11
4 Gobo 3 DMX 12–13
5 Gobo 4 DMX 14–15
6 Gobo 5 DMX 16–17
7 Gobo 6 DMX 18–19
8 Gobo 7 DMX 20–21
9 Gobo 8 DMX 22–23
10 Gobo 9 DMX 24–25
11 Gobo 10 DMX 26–27
12 Gobo 11 DMX 28–29
13 Gobo 12 DMX 30–31
14 Gobo 13 DMX 32–33
15 Gobo 14 DMX 34–35
16 Gobo 15 DMX 36–37
17 Gobo 16 DMX 38–39
18 Gobo 17 DMX 40–41
19 Gobo 18 DMX 42–43
20 Gobo 19 DMX 44–45
21 Gobo 20 DMX 46–47
22 Gobo 21 DMX 48–64

## Prism 2



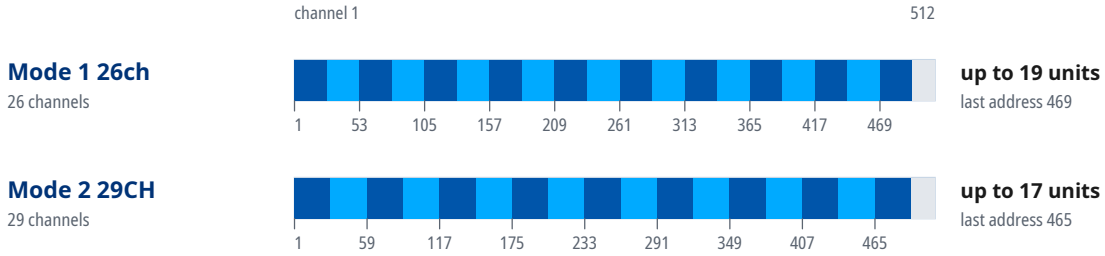
1 Open DMX 0–8
2 6 facets Prism 1 DMX 8–255

## Strobe rate



# 9 DMX channels

### Units in one DMX universe




### Start addresses of 20 units in the mode “Mode 2 29CH”

| Unit | Start address | Unit | Start address | Unit | Start address | Unit | Start address |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 6 | 146 | 11 | 291 | 16 | 436 |
| 2 | 30 | 7 | 175 | 12 | 320 | 17 | 465 |
| 3 | 59 | 8 | 204 | 13 | 349 | 18 | U2 · 1 |
| 4 | 88 | 9 | 233 | 14 | 378 | 19 | U2 · 30 |
| 5 | 117 | 10 | 262 | 15 | 407 | 20 | U2 · 59 |

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 |
|---|---|---|
| Mode 1 26ch | 26 | 1 |
| Mode 2 29CH | 29 | 2 |

## Mode 1 26ch

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 21 Shutter at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 22 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 21 Shutter 12, CH 22 Dimmer 255.

### Channel functions at a glance




| CH | Function | DMX | Description |
|---|---|---|---|
| **1** | Pan | 0–255 | 540° |
| **2** | Pan Fine | 0–255 | Fine adjustment of CH 1 |
| **3** | Tilt | 0–255 | 270° |
| **4** | Tilt Fine | 0–255 | Fine adjustment of CH 3 |
| **5** | Pan Rotation | 0–127 | No Function |
| | | 128 | < |
| | | 129–158 | < ... << |
| | | 159 | << |
| | | 160–188 | << ... <<< |
| | | 189 | <<< |
| | | 190–193 | Stop |
| | | 194 | >>> |
| | | 195–224 | >>> ... >> |

| CH | Function | DMX | Description |
|---|---|---|---|
| **5** | Pan Rotation (continued) | 225 | >> |
| | | 226–254 | >> ... > |
| | | 255 | > |
| **6** | Tilt Rotation | 0–127 | No Function |
| | | 128 | < |
| | | 129–158 | < ... << |
| | | 159 | << |
| | | 160–188 | << ... <<< |
| | | 189 | <<< |
| | | 190–193 | Stop |
| | | 194 | >>> |
| | | 195–224 | >>> ... >> |
| | | 225 | >> |
| | | 226–254 | >> ... > |
| | | 255 | > |
| **7** | Speed Pan/Tilt | 0–255 | |
| **8** | Cyan | 0–255 | |
| **9** | Magenta | 0–255 | |
| **10** | Yellow | 0–255 | |
| **11** | CTO | 0–255 | 6000–3200 K |
| **12** | Colors | 0–7 | Color: Open |
| | | 8–10 | Color 1 |
| | | 11–13 | Color 2 |
| | | 14–16 | Color 3 |
| | | 17–19 | Color 4 |
| | | 20–22 | Color 5 |
| | | 23–25 | Color 6 |
| | | 26–28 | Color 7 |
| | | 29–31 | Color 8 |
| | | 32–34 | Color 9 |
| | | 35–37 | Color 10 |
| | | 38–40 | Color 11 |
| | | 41–43 | Color 12 |
| | | 44–46 | Color 13 |
| | | 47–49 | Color 14 |
| | | 50–52 | Color 15 |
| | | 53–55 | Color 16 |
| | | 56–63 | Color 17 |
| | | 64–127 | Index |
| | | 128 | <<< |
| | | 129–158 | <<< ... << |
| | | 159 | << |

| CH | Function | DMX | Description |
|---|---|---|---|
| **12** | Colors (continued) | 160–188 | << ... < |
| | | 189 | < |
| | | 190–193 | Stop |
| | | 194 | > |
| | | 195–224 | > ... >> |
| | | 225 | >> |
| | | 226–254 | >> ... >>> |
| | | 255 | >>> |
| **13** | Gobo | 0–7 | FIX Gobo: Open |
| | | 8–9 | Gobo 1 |
| | | 10–11 | Gobo 2 |
| | | 12–13 | Gobo 3 |
| | | 14–15 | Gobo 4 |
| | | 16–17 | Gobo 5 |
| | | 18–19 | Gobo 6 |
| | | 20–21 | Gobo 7 |
| | | 22–23 | Gobo 8 |
| | | 24–25 | Gobo 9 |
| | | 26–27 | Gobo 10 |
| | | 28–29 | Gobo 11 |
| | | 30–31 | Gobo 12 |
| | | 32–33 | Gobo 13 |
| | | 34–35 | Gobo 14 |
| | | 36–37 | Gobo 15 |
| | | 38–39 | Gobo 16 |
| | | 40–41 | Gobo 17 |
| | | 42–43 | Gobo 18 |
| | | 44–45 | Gobo 19 |
| | | 46–47 | Gobo 20 |
| | | 48–63 | Gobo 21 |
| | | 64–66 | Gobo 1 shank |
| | | 67–69 | Gobo 2 shank |
| | | 70–72 | Gobo 3 shank |
| | | 73–75 | Gobo 4 shank |
| | | 76–78 | Gobo 5 shank |
| | | 79–81 | Gobo 6 shank |
| | | 82–84 | Gobo 7 shank |
| | | 85–87 | Gobo 8 shank |
| | | 88–90 | Gobo 9 shank |
| | | 91–93 | Gobo 10 shank |
| | | 94–96 | Gobo 11 shank |
| | | 97–99 | Gobo 12 shank |

| CH | Function | DMX | Description |
|---|---|---|---|
| **13** | Gobo (continued) | 100–102 | Gobo 13 shank |
| | | 103–105 | Gobo 14 shank |
| | | 106–108 | Gobo 15 shank |
| | | 109–111 | Gobo 16 shank |
| | | 112–114 | Gobo 17 shank |
| | | 115–117 | Gobo 18 shank |
| | | 118–120 | Gobo 19 shank |
| | | 121–123 | Gobo 20 shank |
| | | 124–127 | Gobo 21 shank |
| | | 128 | <<< |
| | | 129–158 | <<< ... << |
| | | 159 | << |
| | | 160–188 | << ... < |
| | | 189 | < |
| | | 190–193 | Stop |
| | | 194 | > |
| | | 195–224 | > ... >> |
| | | 225 | >> |
| | | 226–254 | >> ... >>> |
| | | 255 | >>> |
| **14** | Prism | 0–7 | Close |
| | | 8–255 | Prism 1 |
| **15** | Prism Rotation Speed | 0–127 | Index (360°) |
| | | 128 | <<< |
| | | 129–158 | <<< ... << |
| | | 159 | << |
| | | 160–188 | << ... < |
| | | 189 | < |
| | | 190–193 | Stop |
| | | 194 | > |
| | | 195–224 | > ... >> |
| | | 225 | >> |
| | | 226–254 | >> ... >>> |
| | | 255 | >>> |
| **16** | Prism 2 | 0–7 | Close |
| | | 8–255 | Prism 1 |
| **17** | Prism 2 Rotation Speed | 0–127 | Index (0–360 °/s) |
| | | 128 | <<< |
| | | 129–158 | <<< ... << |
| | | 159 | << |
| | | 160–188 | << ... < |
| | | 189 | < |

| CH | Function | DMX | Description |
|---|---|---|---|
| **17** | Prism 2 Rotation Speed (continued) | 190–193 | Stop |
| | | 194 | > |
| | | 195–224 | > ... >> |
| | | 225 | >> |
| | | 226–254 | >> ... >>> |
| | | 255 | >>> |
| **18** | Frost | 0–255 | Frost |
| **19** | Focus | 0–255 | Focus |
| **20** | Focus Fine | 0–255 | Fine adjustment of CH 19 |
| **21** | Shutter | 0–7 | Closed |
| | | 8–15 | Open |
| | | 16 | Strobe: Min |
| | | 17–130 | Strobe: Min ... Max |
| | | 131 | Strobe: Max |
| | | 132–139 | Open 2 |
| | | 140 | Pulse Open: Min |
| | | 141–180 | Pulse Open: Min ... Max |
| | | 181 | Pulse Open: Max |
| | | 182–189 | Open 3 |
| | | 190 | Pulse Close: Min |
| | | 191–230 | Pulse Close: Min ... Max |
| | | 231 | Pulse Close: Max |
| | | 232–239 | Open 4 |
| | | 240 | Strobe Random: Min |
| | | 241–246 | Strobe Random: Min ... Max |
| | | 247 | Strobe Random: Max |
| | | 248–255 | Open 5 |
| **22** | Dimmer | 0–255 | |
| **23** | Dimmer Fine | 0–255 | Fine adjustment of CH 22 |
| **24** | Projected Limit | 0–7 | No Function |
| | | 8–15 | Disable |
| | | 16–23 | Enable Limiit |
| | | 24–31 | Enable Limit Invert |
| | | 32–39 | Enable settings |
| | | 40–47 | Disable settings |
| | | 48–55 | Pan postion 1 |
| | | 56–63 | Pan postion 2 |
| | | 64–71 | Tilt postion 1 |
| | | 72–79 | Tilt postion 2 |
| | | 80–255 | No Function 1 |
| **25** | Intensity Limit | 0–15 | <10m |
| | | 16–31 | 10m |

| CH | Function | DMX | Description |
|---|---|---|---|
| **25** | Intensity Limit (continued) | 32–47 | 15m |
| | | 48–63 | 20m |
| | | 64–79 | 25m |
| | | 80–95 | 30m |
| | | 96–111 | 35m |
| | | 112–127 | 40m |
| | | 128–143 | 45m |
| | | 144–159 | 50m |
| | | 160–175 | 55m |
| | | 176–191 | 60m |
| | | 192–255 | >=65m |
| **26** | Function | 0–29 | No Function 1 |
| | | 30–39 | Dim Square Law |
| | | 40–49 | Dim Inv Square Law |
| | | 50–59 | Dim Curve Linear |
| | | 60–69 | Dim Curve S |
| | | 70–79 | Auto |
| | | 80–89 | Quiet |
| | | 90–99 | Super Quiet |
| | | 100–109 | Frequency Setting |
| | | 110–119 | Frequency Disable |
| | | 120–122 | No Function 2 |
| | | 123 | 900Hz |
| | | 124 | 1000Hz |
| | | 125 | 1100Hz |
| | | 126 | 1200Hz |
| | | 127 | 1300Hz |
| | | 128 | 1400Hz |
| | | 129 | 1500Hz |
| | | 130 | 2500Hz |
| | | 131 | 4000Hz |
| | | 132 | 5000Hz |
| | | 133 | 6000Hz |
| | | 134 | 10000Hz |
| | | 135 | 15000Hz |
| | | 136 | 20000Hz |
| | | 137 | 25000Hz |
| | | 138–139 | LEDFrequency Mode: No Function |
| | | 140–149 | PT Reset |
| | | 150–159 | Eff Reset |
| | | 160–171 | No Function 3 |
| | | 172–173 | Focus Compensate: Disable |

| CH | Function | DMX | Description |
|---|---|---|---|
| **26** | Function (continued) | 174–175 | Focus Compensate Ner |
| | | 176–177 | Focus Compensate Medium |
| | | 178–179 | Focus Compensate Far |
| | | 180–181 | Sun Protection Mode: On |
| | | 182–183 | Sun Protection Mode: Off |
| | | 184–199 | No Function 4 |
| | | 200–209 | All Reset |
| | | 210–219 | Dimmer Speed: Fast |
| | | 220–229 | Smooth |
| | | 230–231 | Gobo Short Cut: Enable |
| | | 232–233 | Gobo Short Cut: Disable |
| | | 234–235 | Golor Short Cut: Enable |
| | | 236–237 | Golor Short Cut: Disable |
| | | 238–239 | Defog: On |
| | | 240–241 | Defog: Off |
| | | 242 | Defog: No Function |
| | | 243–244 | No |
| | | 245–246 | Yes |
| | | 247–255 | No Function 5 |

## Mode 2 29CH

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 24 Shutter at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 25 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 24 Shutter 12, CH 25 Dimmer 255.

### Channel functions at a glance




| CH | Function | DMX | Description |
|---|---|---|---|
| **1** | Pan | 0–255 | 540° |
| **2** | Pan Fine | 0–255 | Fine adjustment of CH 1 |
| **3** | Tilt | 0–255 | 270° |
| **4** | Tilt Fine | 0–255 | Fine adjustment of CH 3 |
| **5** | Pan Rotation | | Same as CH 5 in the mode “Mode 1 26ch” (p. 10) |
| **6** | Tilt Rotation | | Same as CH 6 in the mode “Mode 1 26ch” (p. 11) |
| **7** | Speed Pan/Tilt | 0–255 | |
| **8** | Cyan | 0–255 | |
| **9** | Cyan Fine | 0–255 | Fine adjustment of CH 8 |
| **10** | Magenta | 0–255 | |
| **11** | Magenta Fine | 0–255 | Fine adjustment of CH 10 |
| **12** | Yellow | 0–255 | |
| **13** | Yellow Fine | 0–255 | Fine adjustment of CH 12 |

| CH | Function | DMX | Description |
|---|---|---|---|
| **14** | CTO | 0–255 | 6000–3200 K |
| **15** | Colors | | Same as CH 12 in the mode “Mode 1 26ch” (p. 11) |
| **16** | Gobo | | Same as CH 13 in the mode “Mode 1 26ch” (p. 12) |
| **17** | Prism | | Same as CH 14 in the mode “Mode 1 26ch” (p. 13) |
| **18** | Prism Rotation Speed | | Same as CH 15 in the mode “Mode 1 26ch” (p. 13) |
| **19** | Prism 2 | | Same as CH 16 in the mode “Mode 1 26ch” (p. 13) |
| **20** | Prism 2 Rotation Speed | | Same as CH 17 in the mode “Mode 1 26ch” (p. 13) |
| **21** | Frost | 0–255 | Frost |
| **22** | Focus | 0–255 | Focus |
| **23** | Focus Fine | 0–255 | Fine adjustment of CH 22 |
| **24** | Shutter | | Same as CH 21 in the mode “Mode 1 26ch” (p. 14) |
| **25** | Dimmer | 0–255 | |
| **26** | Dimmer Fine | 0–255 | Fine adjustment of CH 25 |
| **27** | Projected Limit | | Same as CH 24 in the mode “Mode 1 26ch” (p. 14) |
| **28** | Intensity Limit | | Same as CH 25 in the mode “Mode 1 26ch” (p. 14) |
| **29** | Function | | Same as CH 26 in the mode “Mode 1 26ch” (p. 15) |

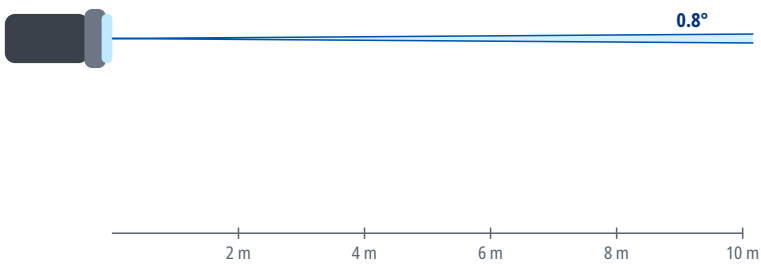
# 10 Technical specifications

| Parameter | Value |
|---|---|
| **Light** | |
| Light source | LED |
| LED power | 1,000 W |
| Luminous flux | 10,380 lm |
| Color temperature | 8,000 K |
| Color rendering index (CRI) | 75 |
| **Optics** | |
| Beam angle | 0.8° |
| **Movement** | |
| Pan | 540° |
| Tilt | 270° |
| **Control** | |
| RDM | yes (manufacturer ID 0x3806, device model ID 0x0559) |
| **Dimensions and construction** | |
| Weight | 20 kg |
| **Operating environment** | |
| Operating temperature | -20 to 45 °C |

## Speeds and ranges

| Parameter | Value |
|---|---|
| Color temperature range | 3200–6000 K |
| Strobe frequency | 0.5–20 Hz |
| Color wheel rotation | up to 270 °/s (45 rpm) |
| Gobo wheel rotation | up to 240 °/s (40 rpm) |
| Prism 1 rotation | up to 420 °/s (70 rpm) |
| Prism 2 rotation | up to 420 °/s (70 rpm) |

## Spot diameter




| Distance | Ø 0.8° |
|---|---|
| 2 m | 0.03 m |
| 4 m | 0.06 m |
| 6 m | 0.08 m |
| 8 m | 0.11 m |
| 10 m | 0.14 m |
| 15 m | 0.21 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.