DMX REFERENCE

# Aleda Wash K10

Aleda K10

Clay Paky



| | |
|---|---|
| **Manufacturer** | Clay Paky |
| **GDTF file** | Clay_Paky_Aleda_Wash_K10_97963.gdtf |
| **GDTF revision** | changed to public · 2025-05-26 |
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# 1 About this manual

This document describes the Aleda K10 by Clay Paky. It was compiled from the GDTF file Clay_Paky_Aleda_Wash_K10_97963.gdtf from the GDTF-Share library.

File revision: “changed to public”.

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 Clay Paky; 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 | 20.7 kg |

### DMX modes

| Mode | Channels | Units in one universe | First start addresses |
|---|---|---|---|
| Shapes | 31 | 16 | 1, 32, 63, 94, ... |
| Standard | 21 | 24 | 1, 22, 43, 64, ... |

### No light? Check these channels

- Shapes: CH 11 Shutter at 104–107, 208–212 or 252–255 “Open”; CH 12 Dimmer above 0; CH 28 Shape Dimmer above 0
- Standard: CH 11 Shutter at 104–107, 208–212 or 252–255 “Open”; CH 12 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.

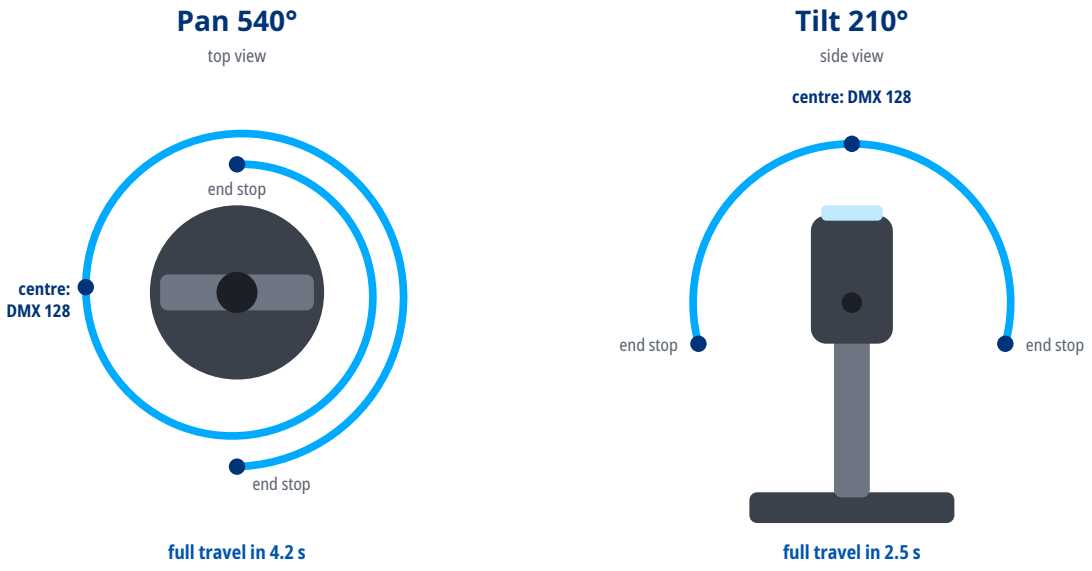
# 4 Product description

### Description in the GDTF file

“The A.leda Wash K10 is a powerful RGBW LED washlight that can display vibrant colors as well as a variety of pastel and white tones. Each color of an individual LED can be controlled separately and therefore offers a wide range of effects and functions.”

“Other features of the A.leda Washlight series include virtually silent operation, a variable CTO, 16-bit channels for the dimmers and the RGB colors, which enable uniform dimming and smooth color transitions. The series also has an extensive effects library.”

### Range of movement




Full-travel times as stated in the GDTF file.

# 5 Installation

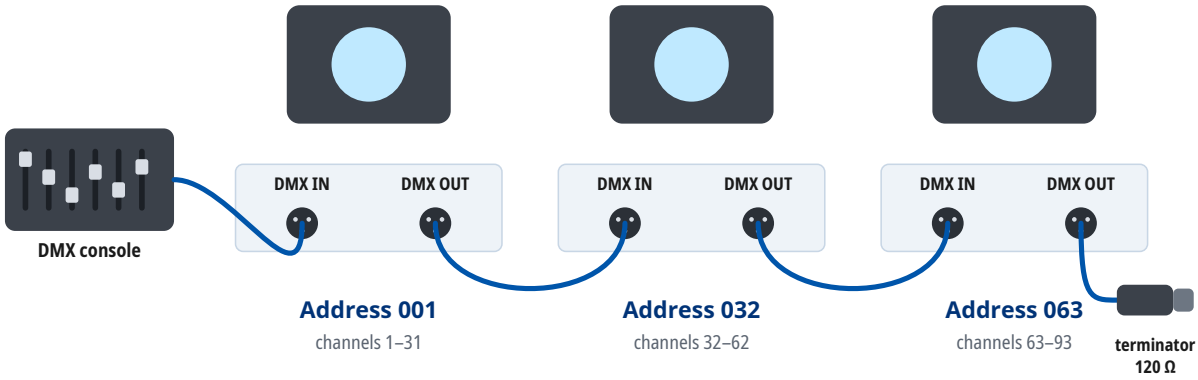
**⚠ WARNING**

- 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: 20.7 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 Shapes: 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 “Shapes”: 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 “Shapes”, 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

| | Shapes<br>31 channels | Standard<br>21 channels |
|---|---|---|
| Pan / Tilt | 14, 16 | 14, 16 |
| Dimmer | 12 | 12 |
| Shutter / strobe | 11 | 11 |
| Color mixing | 8 channels (1–27) | 4× (1–7) |
| Color temperature | 9 | 9 |
| Color wheel | 10 | 10 |
| Zoom | 20 | 20 |
| Effects / macros | 21 | |

## Color wheel

1 No Macro Color
**DMX 0–9**

2 Red
**DMX 10**

3 Green
**DMX 11**

4 Blue
**DMX 12**

5 Cyan
**DMX 13**

6 Yellow
**DMX 14**

7 Magenta
**DMX 15**

8 White 7000K
**DMX 16**

9 White 3700K
**DMX 17**

10 White 5000K
**DMX 18**

11 Black
**DMX 19**

12 Medium Yellow
**DMX 20–22**

13 Straw Tint
**DMX 23–26**

14 Surprise Peach
**DMX 27–28**

15 Fire
**DMX 29**

16 Medium Amber
**DMX 30**

17 Gold Amber
**DMX 31**

18 Dark Amber
**DMX 32–34**

19 Sunrise Red
**DMX 35–44**

20 Light Pink
**DMX 45**

21 Medium Pink
**DMX 46–48**

22 Pink Carnation
**DMX 49–61**

23 Light Lavender
**DMX 62–67**

24 Lavender
**DMX 68–77**

25 Sky Blue
**DMX 78–88**

26 Just Blue
**DMX 89–99**

27 Dark Yellow Green
**DMX 100–109**

28 Sping Yellow
**DMX 110–111**

29 Light Amber
**DMX 112**

30 Straw
**DMX 113**

31 Deep Amber
**DMX 114**

32 Orange
**DMX 115–116**

33 Light Rose
**DMX 117**

34 English Rose
**DMX 118**

35 Light Salmon
**DMX 119**

36 Middle Rose
**DMX 120**

37 Dark Pink
**DMX 121–122**

38 Magenta2
**DMX 123–124**

39 Peacock Blue
**DMX 125**

40 Med Blue Green
**DMX 126**

41 Steel Blue
**DMX 127**

42 Light Blue
**DMX 128**

43 Dark Blue
**DMX 129–130**

44 Leaf Green
**DMX 131–133**

45 Dark Green
**DMX 134–135**

46 Mauve
**DMX 136–137**

47 Bright Pink
**DMX 138–141**

48 Medium Blue
**DMX 142–144**

49 Deep Golden Amber
**DMX 145**

50 Pale Lavender
**DMX 146**

51 Special Lavender
**DMX 147–148**

52 Primary Green
**DMX 149–150**

53 Bright Blue
**DMX 151–156**

54 Apricot
**DMX 157–161**

55 Pale Gold
**DMX 162–167**

56 Deep Orange
**DMX 168–171**

57 Bastard Amber
**DMX 172–173**

58 Flame Red
**DMX 174**

59 Daylight Blue
**DMX 175–178**

60 Lilac Tint
**DMX 179**

61 Deep Lavender
**DMX 180–183**

62 Dark Steel Blue
**DMX 184–190**

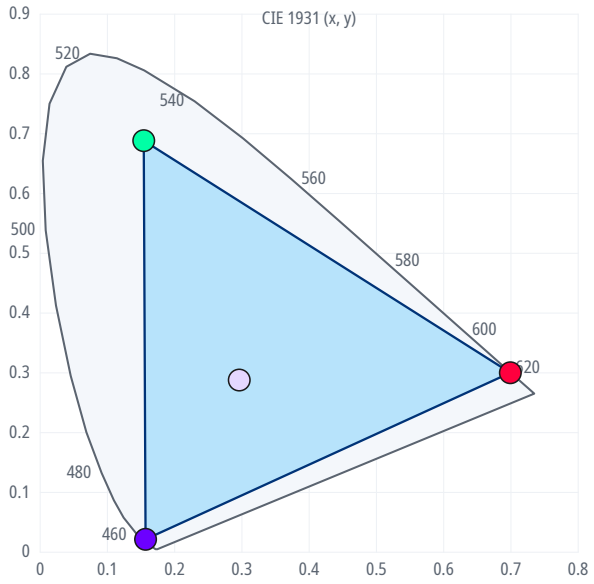
63 Congo Blue
**DMX 191–206**

64 Alice Blue
**DMX 207**

65 Dirty White
**DMX 208**

66 White
**DMX 209–255**

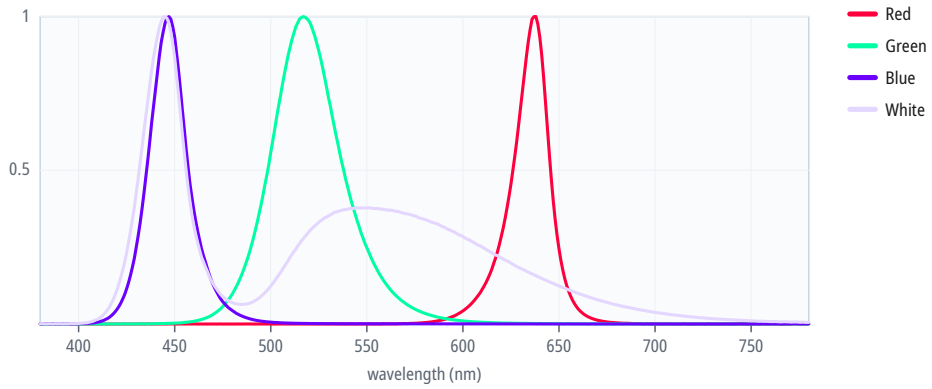
## LED colors and the colors they mix




| LED | x | y |
|---|---|---|
| Red | 0.699 | 0.300 |
| Green | 0.154 | 0.688 |
| Blue | 0.157 | 0.022 |
| White | 0.296 | 0.288 |

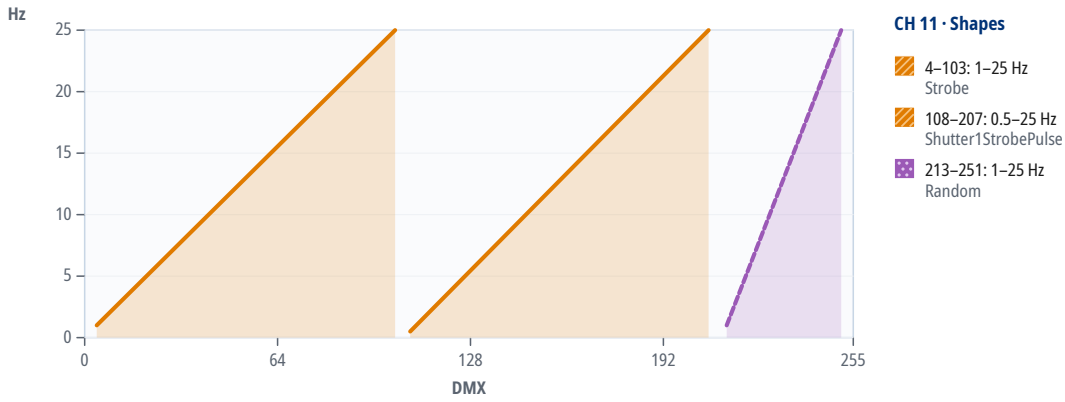
The shaded area holds the colors the LEDs can mix; the dots are the LED colors the GDTF file states.

## Spectra of the light sources

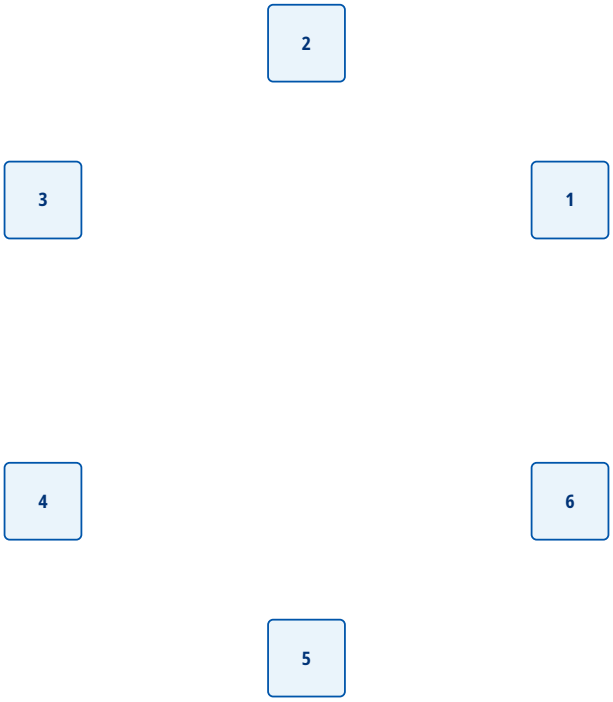



Relative spectrum of each light source as the GDTF file states it; each curve is scaled to its own maximum.

## Strobe rate



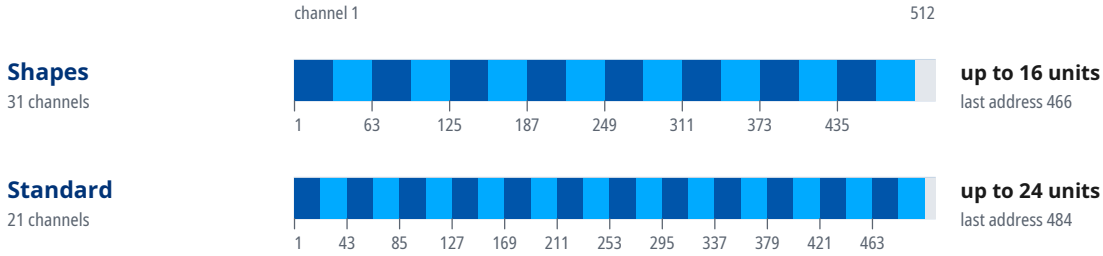

## Cells (pixels)




6 cells where the GDTF file places them (seen from above), numbered in the file's order; the mode “Shapes” drives them together.

# 9 DMX channels

### Units in one DMX universe




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

| 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 |

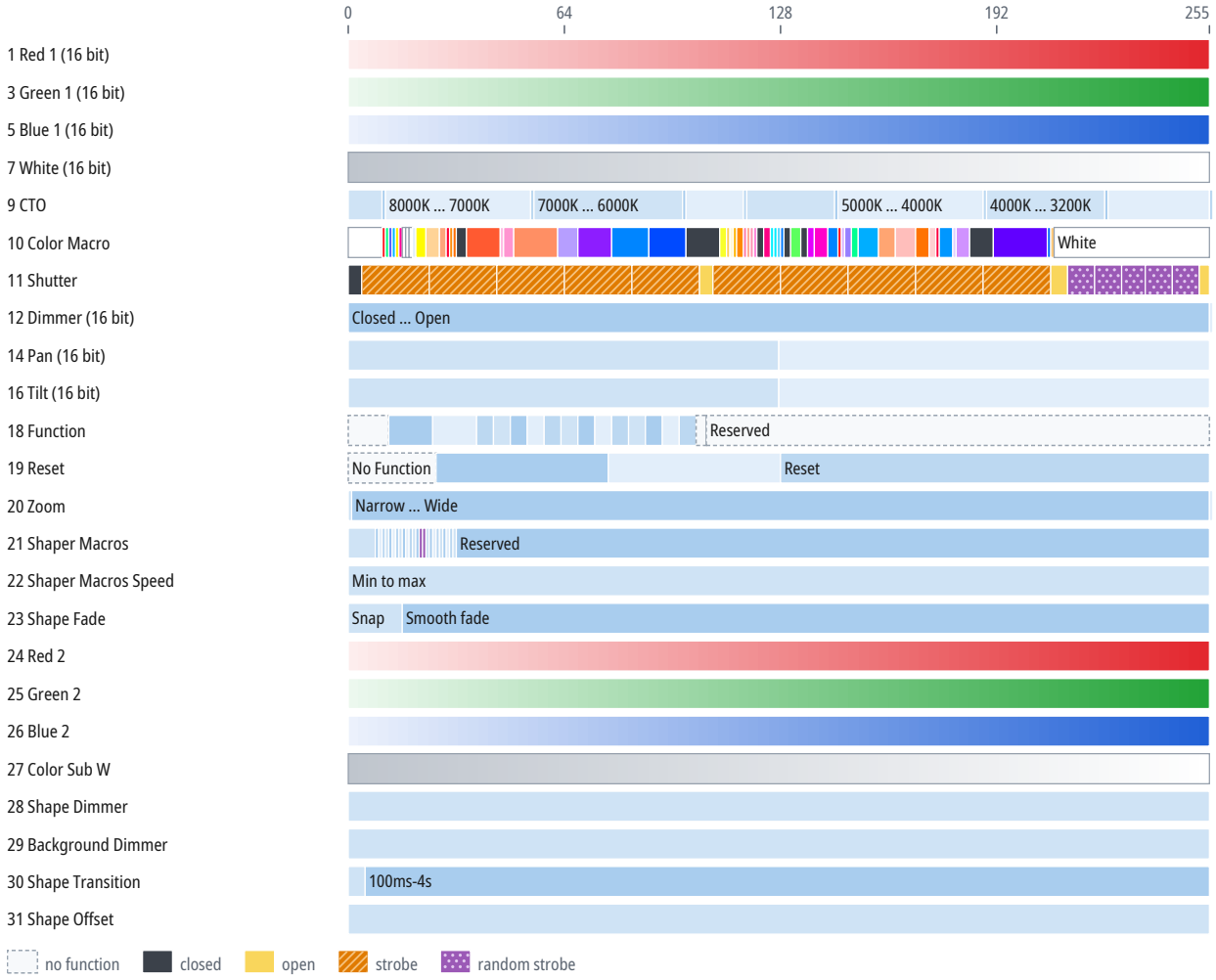
Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

## Mode Shapes

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 11 Shutter at 104–107, 208–212 or 252–255 “Open”; CH 12 Dimmer above 0; CH 28 Shape Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Red 1 255, CH 3 Green 1 255, CH 5 Blue 1 255, CH 7 White 255, CH 10 Color Macro 0, CH 11 Shutter 255, CH 12 Dimmer 255.

### Channel functions at a glance




| CH | Function | DMX | Description |
|---|---|---|---|
| **1** | Red 1 | 0–255 | |
| **2** | Red 1 Fine | 0–255 | Fine adjustment of CH 1 |
| **3** | Green 1 | 0–255 | |
| **4** | Green 1 Fine | 0–255 | Fine adjustment of CH 3 |
| **5** | Blue 1 | 0–255 | |
| **6** | Blue 1 Fine | 0–255 | Fine adjustment of CH 5 |
| **7** | White | 0–255 | |
| **8** | White Fine | 0–255 | Fine adjustment of CH 7 |
| **9** | CTO | 0–9 | No CTO |
| | | 10 | 8000K |

| CH | Function | DMX | Description |
|---|---|---|---|
| **9** | CTO (continued) | 11–53 | 8000K … 7000K |
| | | 54 | 7000K |
| | | 55–98 | 7000K … 6000K |
| | | 99 | 6000K |
| | | 100–116 | 6000K … 5600K |
| | | 117 | 5600K |
| | | 118–143 | 5600K … 5000K |
| | | 144 | 5000K |
| | | 145–187 | 5000K … 4000K |
| | | 188 | 4000K |
| | | 189–223 | 4000K … 3200K |
| | | 224 | 3200K |
| | | 225–254 | 3200K … 2500K |
| | | 255 | 2500K |
| **10** | Color Macro | 0–9 | No Macro Color |
| | | 10 | Red |
| | | 11 | Green |
| | | 12 | Blue |
| | | 13 | Cyan |
| | | 14 | Yellow |
| | | 15 | Magenta |
| | | 16 | White 7000K |
| | | 17 | White 3700K |
| | | 18 | White 5000K |
| | | 19 | Black |
| | | 20–22 | Medium Yellow |
| | | 23–26 | Straw Tint |
| | | 27–28 | Surprise Peach |
| | | 29 | Fire |
| | | 30 | Medium Amber |
| | | 31 | Gold Amber |
| | | 32–34 | Dark Amber |
| | | 35–44 | Sunrise Red |
| | | 45 | Light Pink |
| | | 46–48 | Medium Pink |
| | | 49–61 | Pink Carnation |
| | | 62–67 | Light Lavender |
| | | 68–77 | Lavender |
| | | 78–88 | Sky Blue |
| | | 89–99 | Just Blue |
| | | 100–109 | Dark Yellow Green |
| | | 110–111 | Sping Yellow |

| CH | Function | DMX | Description |
|---|---|---|---|
| **10** | Color Macro (continued) | 112 | Light Amber |
| | | 113 | Straw |
| | | 114 | Deep Amber |
| | | 115–116 | Orange |
| | | 117 | Light Rose |
| | | 118 | English Rose |
| | | 119 | Light Salmon |
| | | 120 | Middle Rose |
| | | 121–122 | Dark Pink |
| | | 123–124 | Magenta2 |
| | | 125 | Peacock Blue |
| | | 126 | Med Blue Green |
| | | 127 | Steel Blue |
| | | 128 | Light Blue |
| | | 129–130 | Dark Blue |
| | | 131–133 | Leaf Green |
| | | 134–135 | Dark Green |
| | | 136–137 | Mauve |
| | | 138–141 | Bright Pink |
| | | 142–144 | Medium Blue |
| | | 145 | Deep Golden Amber |
| | | 146 | Pale Lavender |
| | | 147–148 | Special Lavender |
| | | 149–150 | Primary Green |
| | | 151–156 | Bright Blue |
| | | 157–161 | Apricot |
| | | 162–167 | Pale Gold |
| | | 168–171 | Deep Orange |
| | | 172–173 | Bastard Amber |
| | | 174 | Flame Red |
| | | 175–178 | Daylight Blue |
| | | 179 | Lilac Tint |
| | | 180–183 | Deep Lavender |
| | | 184–190 | Dark Steel Blue |
| | | 191–206 | Congo Blue |
| | | 207 | Alice Blue |
| | | 208 | Dirty White |
| | | 209–255 | White |
| **11** | Shutter | 0–3 | Shutter: Closed |
| | | 4–23 | x1 Strb>> |
| | | 24–43 | x2 Strb>> |
| | | 44–63 | x3 Strb>> |

| CH | Function | DMX | Description |
|---|---|---|---|
| **11** | Shutter (continued) | 64–83 | x4 Strb>> |
| | | 84–103 | x5 Strb>> |
| | | 104–107 | Shutter: Open |
| | | 108–127 | x1 PulseC>> |
| | | 128–147 | x2 PulseC>> |
| | | 148–167 | x3 PulseC>> |
| | | 168–187 | x4 PulseC>> |
| | | 188–207 | x5 PulseC>> |
| | | 208–212 | Shutter: Open |
| | | 213–220 | x1 RndStrb>> |
| | | 221–228 | x2 RndStrb>> |
| | | 229–235 | x3 RndStrb>> |
| | | 236–243 | x4 RndStrb>> |
| | | 244–251 | x5 RndStrb>> |
| | | 252–255 | Shutter: Open |
| **12** | Dimmer | 0–255 | Closed ... Open |
| | | 255 | Open |
| **13** | Dimmer Fine | 0–255 | Fine adjustment of CH 12 |
| **14** | Pan | 0–127 | Pan |
| | | 128 | Home |
| | | 128–255 | Pan |
| **15** | Pan Fine | 0–255 | Fine adjustment of CH 14 |
| **16** | Tilt | 0–127 | Tilt |
| | | 128 | Home |
| | | 128–255 | Tilt |
| **17** | Tilt Fine | 0–255 | Fine adjustment of CH 16 |
| **18** | Function | 0–11 | No Function |
| | | 12–24 | Fast Pan/Tilt |
| | | 25–37 | Normal Pan/Tilt |
| | | 38–42 | Dimmer Curve 1 |
| | | 43–47 | Dimmer Curve 2 |
| | | 48–52 | Dimmer Curve 3 |
| | | 53–57 | Dimmer Curve 4 |
| | | 58–62 | Gamma Curve 1 |
| | | 63–67 | Gamma Curve 2 |
| | | 68–72 | Gamma Curve 3 |
| | | 73–77 | Halo OFF |
| | | 78–82 | Halo 750W |
| | | 83–87 | Halo 1000W |
| | | 88–92 | Halo 1200W |
| | | 93–97 | Halo 2000W |
| | | 98–102 | Halo 2500W |

| CH | Function | DMX | Description |
|---|---|---|---|
| **18** | Function (continued) | 103–105 | Pixel Map ON |
| | | 106–255 | Reserved |
| **19** | Reset | 0–25 | No Function |
| | | 26–76 | Zoom Reset |
| | | 77–127 | Position Reset |
| | | 128–255 | Reset |
| **20** | Zoom | 0 | Narrow |
| | | 1–254 | Narrow ... Wide |
| | | 255 | Wide |
| **21** | Shaper Macros | 0–7 | Macro off |
| | | 8 | Ring 1 |
| | | 9 | Ring 2 |
| | | 10 | Ring 3 |
| | | 11 | Ring 4 |
| | | 12 | Ring 1+2 |
| | | 13 | Ring 1+3 |
| | | 14 | Ring 1+4 |
| | | 15 | Ring open |
| | | 16 | Ring open filled |
| | | 17 | Ring open close |
| | | 18 | Ring open close filled |
| | | 19 | Radius |
| | | 20 | Radius filled |
| | | 21 | Random distributed |
| | | 22 | Random density |
| | | 23 | Rainbow 1 |
| | | 24 | Rainbow 2 |
| | | 25 | Fan |
| | | 26 | Bar |
| | | 27 | Half moon |
| | | 28 | Triangle |
| | | 29 | Rot bar |
| | | 30 | Rot arc 1 |
| | | 31 | Rot arc 2 |
| | | 32–255 | Reserved |
| **22** | Shaper Macros Speed | | Shape Speed |
| | | 0–255 | Min to max |
| **23** | Shape Fade | 0–15 | Snap |
| | | 16–255 | Smooth fade |
| **24** | Red 2 | 0–255 | |
| **25** | Green 2 | 0–255 | |
| **26** | Blue 2 | 0–255 | |

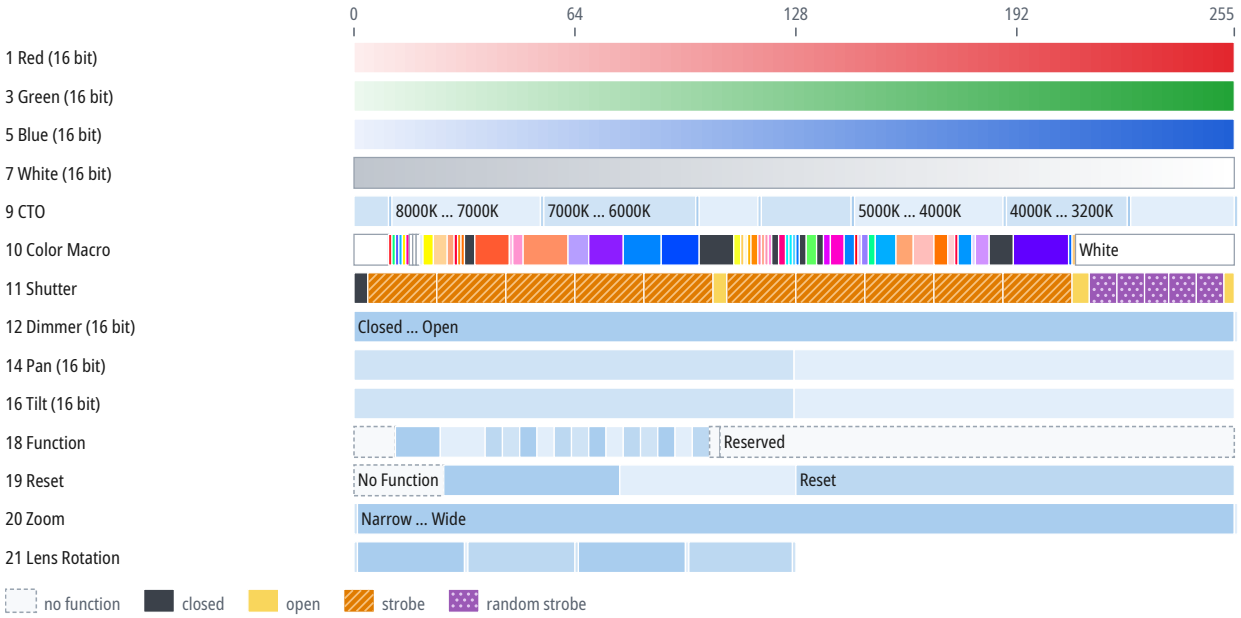
| CH | Function | DMX | Description |
|---|---|---|---|
| **27** | Color Sub W | 0–255 | |
| **28** | Shape Dimmer | 0–255 | |
| **29** | Background Dimmer | 0–255 | |
| **30** | Shape Transition | 0–4 | No Fade |
| | | 5–255 | 100ms-4s |
| **31** | Shape Offset | 0–255 | |

## Mode Standard

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 11 Shutter at 104–107, 208–212 or 252–255 “Open”; CH 12 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Red 255, CH 3 Green 255, CH 5 Blue 255, CH 7 White 255, CH 10 Color Macro 0, CH 11 Shutter 255, CH 12 Dimmer 255.

### Channel functions at a glance




| CH | Function | DMX | Description |
|---|---|---|---|
| **1** | Red | 0–255 | |
| **2** | Red Fine | 0–255 | Fine adjustment of CH 1 |
| **3** | Green | 0–255 | |
| **4** | Green Fine | 0–255 | Fine adjustment of CH 3 |
| **5** | Blue | 0–255 | |
| **6** | Blue Fine | 0–255 | Fine adjustment of CH 5 |
| **7** | White | 0–255 | |
| **8** | White Fine | 0–255 | Fine adjustment of CH 7 |
| **9** | CTO | | Same as CH 9 in the mode “Shapes” (p. 12) |
| **10** | Color Macro | | Same as CH 10 in the mode “Shapes” (p. 13) |
| **11** | Shutter | | Same as CH 11 in the mode “Shapes” (p. 14) |
| **12** | Dimmer | | Same as CH 12 in the mode “Shapes” (p. 15) |

| CH | Function | DMX | Description |
|---|---|---|---|
| **13** | Dimmer Fine | 0–255 | Fine adjustment of CH 12 |
| **14** | Pan | | Same as CH 14 in the mode “Shapes” (p. 15) |
| **15** | Pan Fine | 0–255 | Fine adjustment of CH 14 |
| **16** | Tilt | | Same as CH 16 in the mode “Shapes” (p. 15) |
| **17** | Tilt Fine | 0–255 | Fine adjustment of CH 16 |
| **18** | Function | | Same as CH 18 in the mode “Shapes” (p. 15) |
| **19** | Reset | | Same as CH 19 in the mode “Shapes” (p. 16) |
| **20** | Zoom | | Same as CH 20 in the mode “Shapes” (p. 16) |
| **21** | Lens Rotation | | When CH 20 is 0–45: |
| | | 0 | 0 deg |
| | | 1–31 | 0 deg ... 15 deg |
| | | 32 | 15 deg |
| | | 33–63 | 15 deg ... 30 deg |
| | | 64 | 30 deg |
| | | 65–95 | 30 deg ... 45 deg |
| | | 96 | 45 deg |
| | | 97–126 | 45 deg ... 60 deg |
| | | 127 | 60 deg |
| | | 128–140 | x5 Rot Zoom<< (0.3–11.8 °/s) |
| | | 141–152 | x4 Rot Zoom<< (12.8–23.4 °/s) |
| | | 153–165 | x3 Rot Zoom<< (24.4–35.9 °/s) |
| | | 166–177 | x2 Rot Zoom<< (36.9–47.5 °/s) |
| | | 178–190 | x1 Rot Zoom<< (48.5–60 °/s) |
| | | 191–192 | Rot Zoom>< |
| | | 193–205 | x1 Rot Zoom>> (60–48.5 °/s) |
| | | 206–217 | x2 Rot Zoom>> (47.5–36.9 °/s) |
| | | 218–230 | x3 Rot Zoom>> (35.9–24.4 °/s) |
| | | 231–242 | x4 Rot Zoom>> (23.4–12.8 °/s) |
| | | 243–255 | x5 Rot Zoom>> (11.8–0.3 °/s) |
| | | | When CH 20 is 46–255: |
| | | 0–255 | |

# 10 Technical specifications

| Parameter | Value |
|---|---|
| **Light** | |
| Light source | LED |
| **Optics** | |
| Zoom | 4–60° |
| **Movement** | |
| Pan | 540° |
| Tilt | 210° |
| **Control** | |
| DMX connection | 5-pin XLR IN/OUT, 3-pin XLR IN/OUT |
| RJ45 connectors | RJ45 |
| **Electrical** | |
| Power connectors | powerCON TRUE1 IN |
| **Dimensions and construction** | |
| Weight | 20.7 kg |
| **Operating environment** | |
| Operating temperature | -20 to 40 °C |

## Speeds and ranges

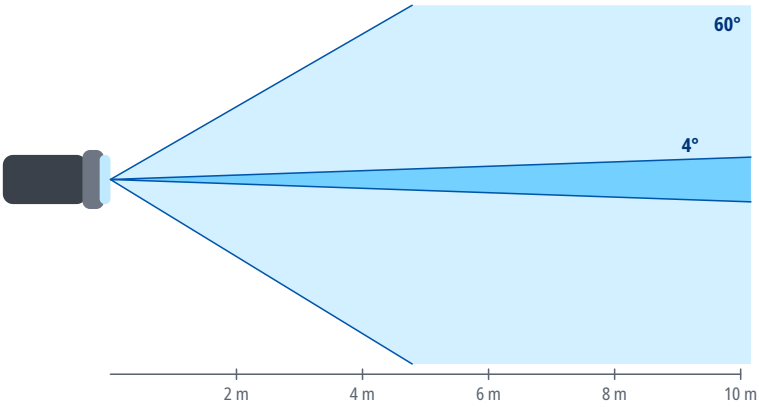
| Parameter | Value |
|---|---|
| Color temperature range | 2500–8000 K |
| Strobe frequency | 1–25 Hz |

## Dimensions

### weight 20.7 kg



### Spot diameter




| Distance | Ø 4° | Ø 60° |
|---|---|---|
| 2 m | 0.14 m | 2.3 m |
| 4 m | 0.28 m | 4.6 m |
| 6 m | 0.42 m | 6.9 m |
| 8 m | 0.56 m | 9.2 m |
| 10 m | 0.7 m | 11.5 m |
| 15 m | 1 m | 17.3 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.