DMX REFERENCE

LumiGo PAR407

Cyclops Lighting



Manufacturer	Cyclops Lighting
GDTF file	Cyclops_Lighting_LumiGo_PAR407_133577.gdtf
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1 About this manual

This document describes the LumiGo PAR407 by Cyclops Lighting. It was compiled from the GDTF file Cyclops_Lighting_LumiGo_PAR407_133577.gdtf from the GDTF-Share library.

File revision: “0_6 Tested Live”.

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 Cyclops Lighting; 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	30 W
Weight	94 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
DMX 9 Channels	9	56	1, 10, 19, 28, ...
DMX 2 Channels	2	256	1, 3, 5, 7, ...
DMX 3 Channels	3	170	1, 4, 7, 10, ...
DMX 4 Channels	4	128	1, 5, 9, 13, ...
DMX 12 Channels	12	42	1, 13, 25, 37, ...

No light? Check these channels

- DMX 9 Channels: CH 1 Dimmer above 0; CH 2 Strobe at 0–9 “OFF”
- DMX 12 Channels: CH 1 Dimmer above 0; CH 2 Strobe at 0–9 “OFF”


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.

4 Product description

Description in the GDTF file

“LumiGo™ PAR407 is a professional outdoor battery operated LED Par powered by 7 x 10 watts RGBW LEDs. It has a compact design but is large in output and perfect for any outdoor installation or event. LumiGo™ PAR407 is equipped with a built-in CRMX wireless DMX receiver by Lumen Radio. It is also controlled via Bluetooth with iOS, Android and Windows Application.”

5 Installation

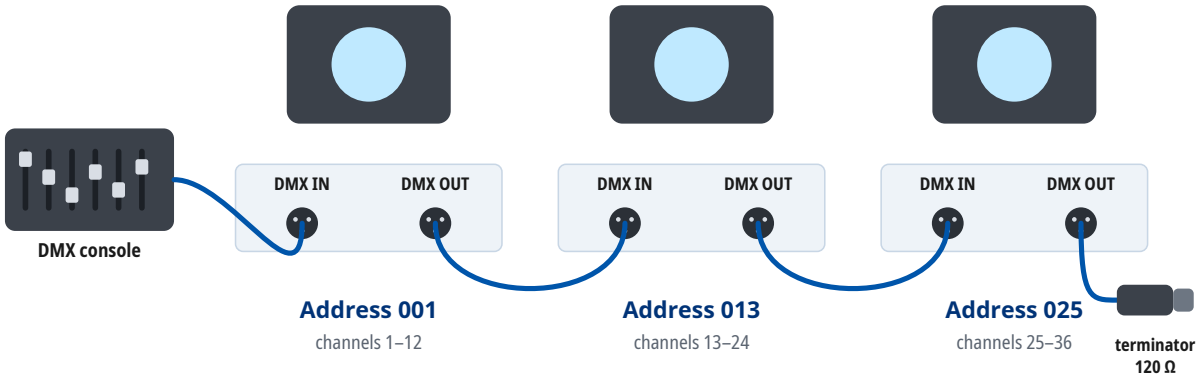
⚠ **WARNING**

- 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: 94 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 DMX 12 Channels: every unit occupies 12 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 “DMX 12 Channels”: 12.
- 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 “DMX 12 Channels”, you can use, for example, the start addresses 1, 13, 25, 37.
- 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

	DMX 9 Channels 9 channels	DMX 2 Channels 2 channels	DMX 3 Channels 3 channels	DMX 4 Channels 4 channels	DMX 12 Channels 12 channels
Dimmer	1		✓	✓	1
Shutter / strobe	2				2
Color mixing	3–6			1–4	3–6
Color temperature		2			9
Color wheel		1			8

Color wheel

1 None
DMX 0–10

2 Light white 1
DMX 11–16

3 None 1
DMX 17–23

4 Red
DMX 24–27

5 Green
DMX 28–31

6 Blue
DMX 32–35

7 Yellow
DMX 36–39

8 Cyan
DMX 40–43

9 Magenta
DMX 44–47

10 White
DMX 48–51

11 Orange
DMX 52–55

12 Pink
DMX 56–59

13 Violet
DMX 60–63

14 Aquamarine
DMX 64–67

15 Sky blue
DMX 68–71

16 Full white
DMX 72–75

17 Cool white
DMX 76–79

18 Warm white
DMX 80–83

19 White 3200
DMX 84–87

20 White 2500
DMX 88–91

21 Yellow 2
DMX 92–95

22 Straw
DMX 96–99

23 Orange 2
DMX 100–103

24 Light rose
DMX 104–107

25 Dark pink
DMX 108–111

26 Magenta 2
DMX 112–115

27 Blue 2
DMX 116–119

28 Med blue green
DMX 120–123

29 Dark blue
DMX 124–127

30 Bright pink
DMX 128–131

31 Medium blue
DMX 132–135

32 Golden amber
DMX 136–139

33 Deep golden amber
DMX 140–143

34 Pale lavender
DMX 144–147

35 Apricot
DMX 148–151

36 Dark lavender
DMX 152–155

37 Chocolate
DMX 156–159

38 Just blue
DMX 160–163

39 Surprise pink
DMX 164–167

40 Scarlet
DMX 168–171

41 Surprise peach
DMX 172–175

42 Fire
DMX 176–179

43 English rose
DMX 180–183

44 Mauve
DMX 184–187

45 Bright blue
DMX 188–191

46 Alice blue
DMX 192–195

47 Rose indigo
DMX 196–199

48 Urban blue
DMX 200–203

49 Cool blue
DMX 204–207

50 Light salmon
DMX 208–211

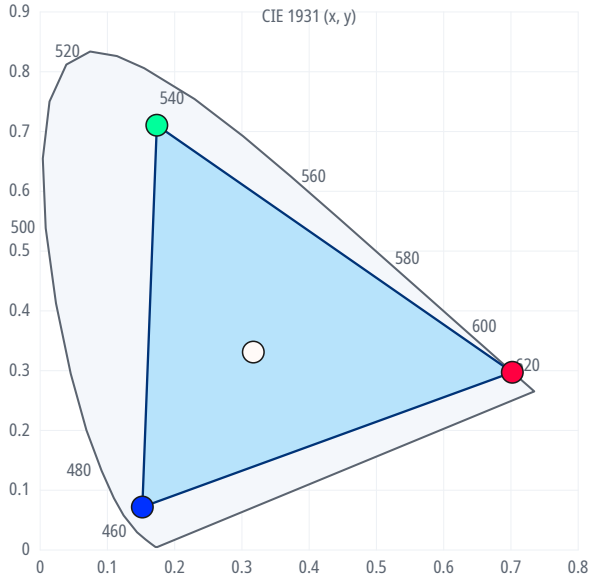
51 Mayan sun
DMX 212–215

52 Cherry rose
DMX 216–219

53 Flesh pink
DMX 220–222

54 Skelton exotic sangria
DMX 223–255

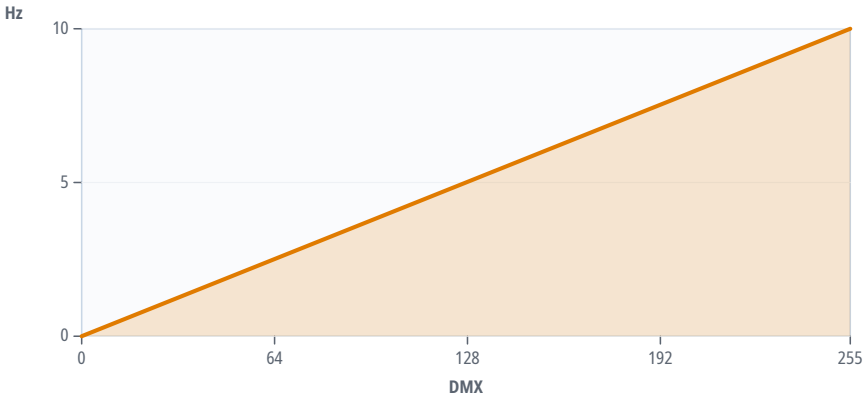
LED colors and the colors they mix



LED	x	y	nm
Red	0.702	0.297	626
Green	0.173	0.711	527
Blue	0.152	0.072	452
White	0.317	0.331	

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

Strobe rate

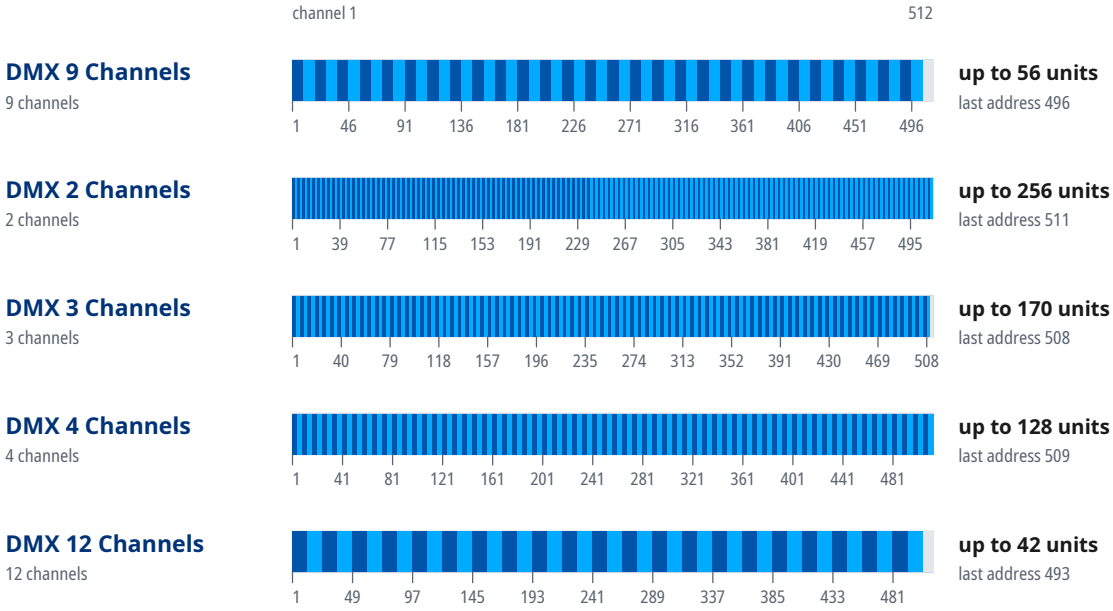


CH 2 · DMX 12 Channels

0–255: 0–10 Hz
Shutter1Strobe 1

9 DMX channels

Units in one DMX universe



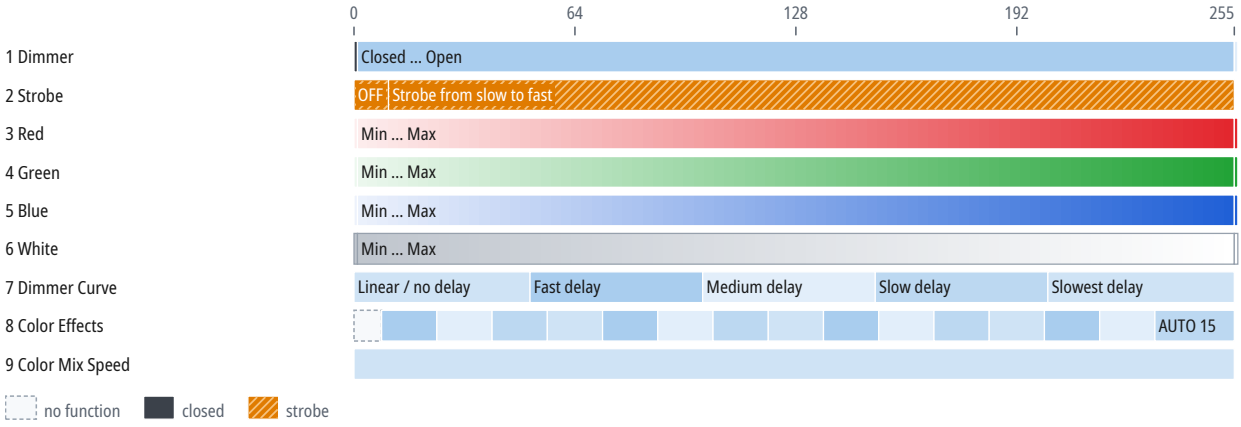
Start addresses of 20 units in the mode “DMX 12 Channels”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	61	11	121	16	181
2	13	7	73	12	133	17	193
3	25	8	85	13	145	18	205
4	37	9	97	14	157	19	217
5	49	10	109	15	169	20	229

Mode DMX 9 Channels

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Strobe at 0–9 “OFF”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Red 255, CH 4 Green 255, CH 5 Blue 255.

Channel functions at a glance

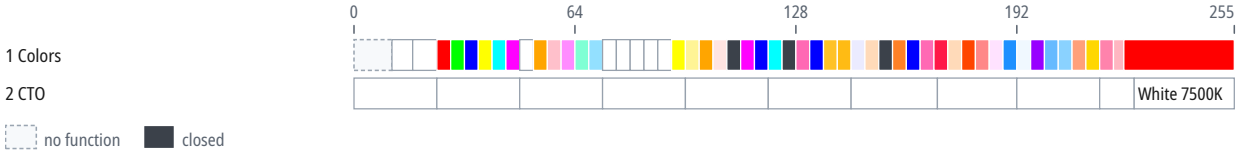


CH	Function	DMX	Description
1	Dimmer	0	Closed
		1–254	Closed … Open
		255	Open
2	Strobe	0–9	OFF
		10–255	Strobe from slow to fast (0.1–10 Hz)
3	Red	0	Min
		1–254	Min … Max
		255	Max
4	Green	0	Min
		1–254	Min … Max
		255	Max
5	Blue	0	Min
		1–254	Min … Max
		255	Max
6	White	0	Min
		1–254	Min … Max
		255	Max
7	Dimmer Curve	0–50	Linear / no delay
		51–100	Fast delay
		101–150	Medium delay
		151–200	Slow delay
		201–255	Slowest delay
8	Color Effects	0–7	OFF
		8–23	AUTO 1
		24–39	AUTO 2
		40–55	AUTO 3
		56–71	AUTO 4
		72–87	AUTO 5
		88–103	AUTO 6
		104–119	AUTO 7
		120–135	AUTO 8
		136–151	AUTO 9
		152–167	AUTO 10
		168–183	AUTO 11
		184–199	AUTO 12
		200–215	AUTO 13
		216–231	AUTO 14
		232–255	AUTO 15
9	Color Mix Speed	0–255	

Mode DMX 2 Channels

The GDTF file gives these values for a console's Highlight function: CH 1 Colors 13.

Channel functions at a glance

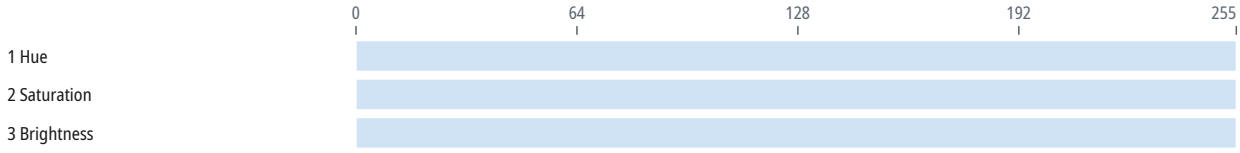


CH	Function	DMX	Description
1	Colors	0–10	None
		11–16	Light white 1
		17–23	None 1
		24–27	Red
		28–31	Green
		32–35	Blue
		36–39	Yellow
		40–43	Cyan
		44–47	Magenta
		48–51	White
		52–55	Orange
		56–59	Pink
		60–63	Violet
		64–67	Aquamarine
		68–71	Sky blue
		72–75	Full white
		76–79	Cool white
		80–83	Warm white
		84–87	White 3200
		88–91	White 2500
		92–95	Yellow 2
		96–99	Straw
		100–103	Orange 2
		104–107	Light rose
		108–111	Dark pink
		112–115	Magenta 2
		116–119	Blue 2
		120–123	Med blue green
		124–127	Dark blue
		128–131	Bright pink
		132–135	Medium blue
		136–139	Golden amber
		140–143	Deep golden amber

CH	Function	DMX	Description
1	Colors (continued)	144–147	Pale lavender
		148–151	Apricot
		152–155	Dark lavender
		156–159	Chocolate
		160–163	Just blue
		164–167	Surprise pink
		168–171	Scarlet
		172–175	Surprise peach
		176–179	Fire
		180–183	English rose
		184–187	Mauve
		188–191	Bright blue
		192–195	Alice blue
		196–199	Rose indigo
		200–203	Urban blue
		204–207	Cool blue
		208–211	Light salmon
		212–215	Mayan sun
		216–219	Cherry rose
		220–222	Flesh pink
		223–255	Skelton exotic sangria
2	CTO	0–23	White 2200K
		24–47	White 2700K
		48–71	White 3000K
		72–95	White 3200K
		96–119	White 3500K
		120–143	White 4000K
		144–168	White 4500K
		169–191	White 5000K
		192–215	White 5600K
		216–225	White 6500K
		226–255	White 7500K

Mode DMX 3 Channels

Channel functions at a glance

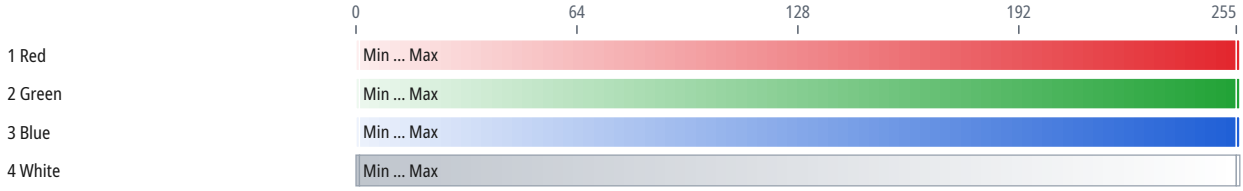


CH	Function	DMX	Description
1	Hue	0–255	
2	Saturation	0–255	
3	Brightness	0–255	

Mode DMX 4 Channels

The GDTF file gives these values for a console's Highlight function: CH 1 Red 255, CH 2 Green 255, CH 3 Blue 255.

Channel functions at a glance

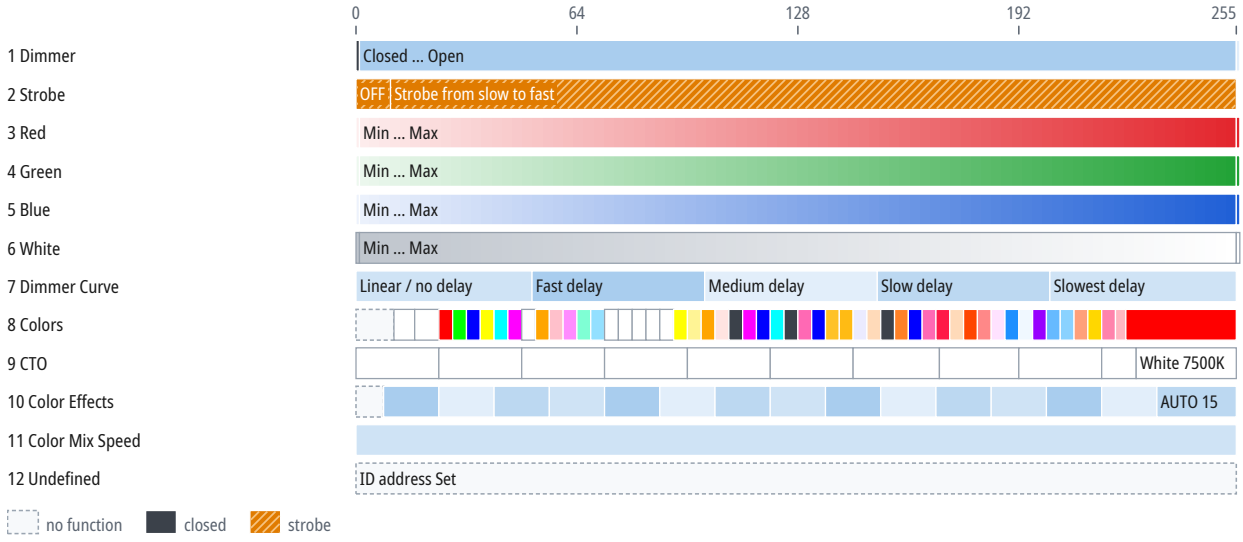


CH	Function	DMX	Description
1	Red		Same as CH 3 in the mode “DMX 9 Channels” (p. 10)
2	Green		Same as CH 4 in the mode “DMX 9 Channels” (p. 10)
3	Blue		Same as CH 5 in the mode “DMX 9 Channels” (p. 10)
4	White		Same as CH 6 in the mode “DMX 9 Channels” (p. 10)

Mode DMX 12 Channels

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Strobe at 0–9 “OFF”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Red 255, CH 4 Green 255, CH 5 Blue 255, CH 8 Colors 13.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “DMX 9 Channels” (p. 10)
2	Strobe		Same as CH 2 in the mode “DMX 9 Channels” (p. 10)
3	Red		Same as CH 3 in the mode “DMX 9 Channels” (p. 10)
4	Green		Same as CH 4 in the mode “DMX 9 Channels” (p. 10)
5	Blue		Same as CH 5 in the mode “DMX 9 Channels” (p. 10)
6	White		Same as CH 6 in the mode “DMX 9 Channels” (p. 10)
7	Dimmer Curve		Same as CH 7 in the mode “DMX 9 Channels” (p. 10)
8	Colors		Same as CH 1 in the mode “DMX 2 Channels” (p. 11)
9	CTO		Same as CH 2 in the mode “DMX 2 Channels” (p. 12)
10	Color Effects		Same as CH 8 in the mode “DMX 9 Channels” (p. 10)
11	Color Mix Speed	0–255	
12	Undefined		ID address Set
		0–255	ID address Set

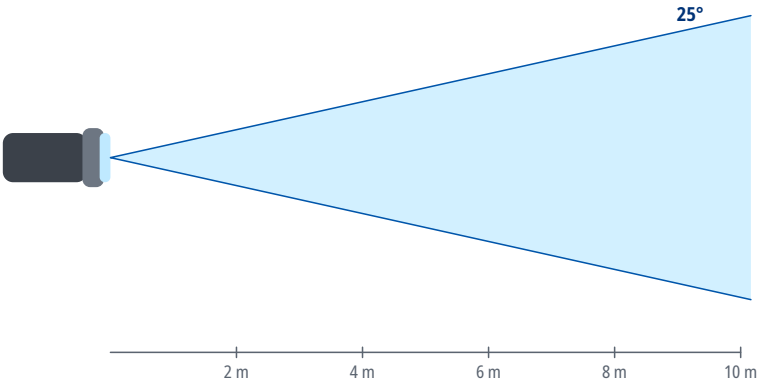
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	30 W
Luminous flux	1,000 lm
Color temperature	6,000 K
Color rendering index (CRI)	95
Optics	
Beam angle	25°
Control	
DMX connection	5-pin XLR IN/OUT
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	30 W
Power connectors	powerCON TRUE1 IN
Dimensions and construction	
Weight	94 kg
Operating environment	
Operating temperature	-30 to 45 °C

Speeds and ranges

Parameter	Value
Color temperature range	2200–7500 K
Strobe frequency	0–10 Hz

Spot diameter



Distance	Ø 25°
2 m	0.89 m
4 m	1.8 m
6 m	2.7 m
8 m	3.5 m
10 m	4.4 m
15 m	6.7 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.

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.