DMX REFERENCE

Rodie IP

Rasha Professional



Manufacturer	Rasha Professional
GDTF file	Rasha_Professional_Rodie_IP_90482.gdtf
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1 About this manual

This document describes the Rodie IP by Rasha Professional. It was compiled from the GDTF file Rasha_Professional_Rodie_IP_90482.gdtf from the GDTF-Share library.

File revision: “Mar 20 2025, Uploaded to GDTF Share.”.

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 Rasha Professional; product names and trademarks belong to their owners.

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

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

2 Quick reference

Parameter	Value
Power consumption	156 W
Weight	5.2 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
11Ch Standard	11	46	1, 12, 23, 34, ...
8Ch Basic	8	64	1, 9, 17, 25, ...
6Ch Col Dim	6	85	1, 7, 13, 19, ...
2Ch CTC	2	256	1, 3, 5, 7, ...

No light? Check these channels

- 11Ch Standard: CH 1 Dimmer above 0; CH 8 Strobe at 0–10 “Open”
- 8Ch Basic: CH 1 Dimmer above 0; CH 2 Strobe at 0–10 “Open”
- 2Ch CTC: CH 1 Dimmer above 0


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

3 Safety instructions


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

⚠ WARNING

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

⚠ WARNING

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

⚠ WARNING

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

⚠ CAUTION

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

⚠ WARNING

- This device emits ultraviolet (UV) radiation, which can harm the eyes and skin.
- Do not look directly into the light source and avoid prolonged exposure of the eyes and skin at close range. Install the device so that people are not exposed at close range.
- People with increased sensitivity to light, including those taking medication that increases this sensitivity, should avoid UV exposure.

⚠ 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

“The Rodie IP is a compact 40° static Par Wash designed for high-intensity output and precise color reproduction.”

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: 5.2 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.

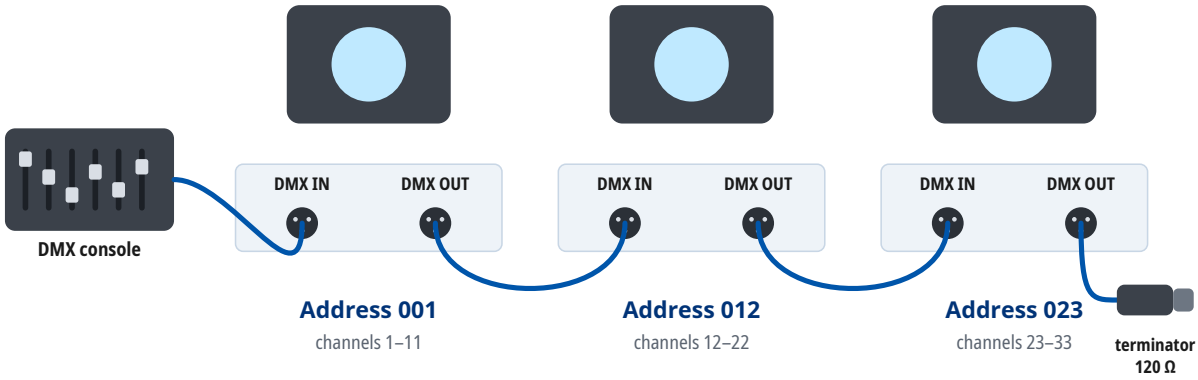
6 Connections

- 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 11Ch Standard: every unit occupies 11 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 “11Ch Standard”: 11.
- 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 “11Ch Standard”, you can use, for example, the start addresses 1, 12, 23, 34.
- 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

	11Ch Standard 11 channels	8Ch Basic 8 channels	6Ch Col Dim 6 channels	2Ch CTC 2 channels
Pan / Tilt	✓	✓	✓	✓
Dimmer	1	1		1
Shutter / strobe	8, 9	2		2
Color mixing	2–7	3–8	1–6	
Color temperature	9			2
Color wheel	11 *			
Effects / macros	10, 11			

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

Color wheel

1 Red
DMX 0–7

2 Green
DMX 8–15

3 Blue
DMX 16–23

4 White
DMX 24–31

5 Amber
DMX 32–39

6 UV
DMX 40–47

7 Yellow
DMX 48–55

8 Magenta
DMX 56–63

9 Cyan
DMX 64–71

10 Perano
DMX 72–79

11 Salmon
DMX 80–87

12 Aqua
DMX 88–95

13 Azure
DMX 96–103

14 Orange
DMX 104–111

15 Pear
DMX 112–119

16 Lavender
DMX 120–127

17 CTO
DMX 128–135

18 Rose
DMX 136–143

19 Spring Green
DMX 144–151

20 Dark Blue
DMX 152–159

21 White 2
DMX 160–167

22 Bronze
DMX 168–175

23 Grey
DMX 176–183

24 Lilac
DMX 184–191

25 Sky Blue
DMX 192–199

26 Orchid
DMX 200–207

27 Tan
DMX 208–215

28 Ultra Pink
DMX 216–223

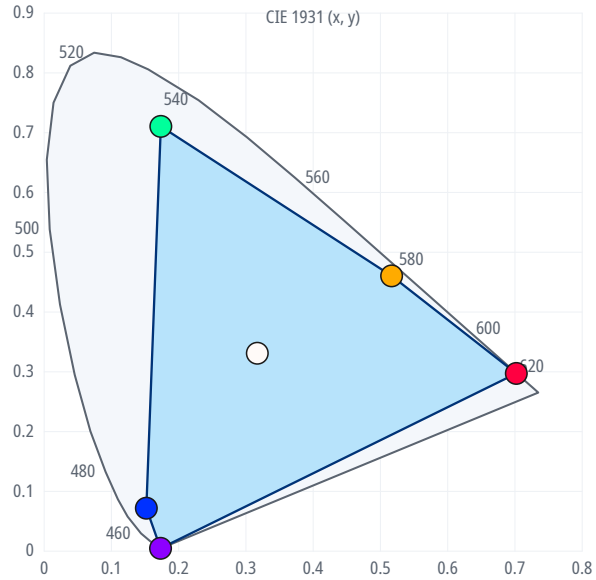
29 Turquoise
DMX 224–231

30 Beige
DMX 232–239

31 Gold
DMX 240–247

32 Melrose
DMX 248–255

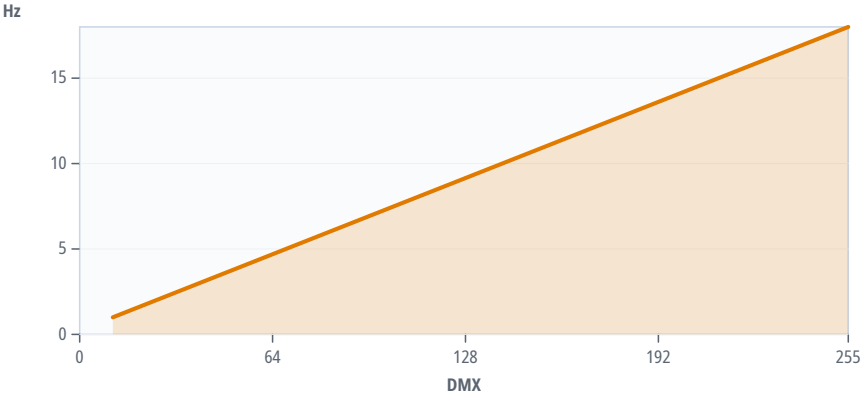
LED colors and the colors they mix



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	
Amber	0.517	0.461	
UV	0.173	0.005	

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

Strobe rate

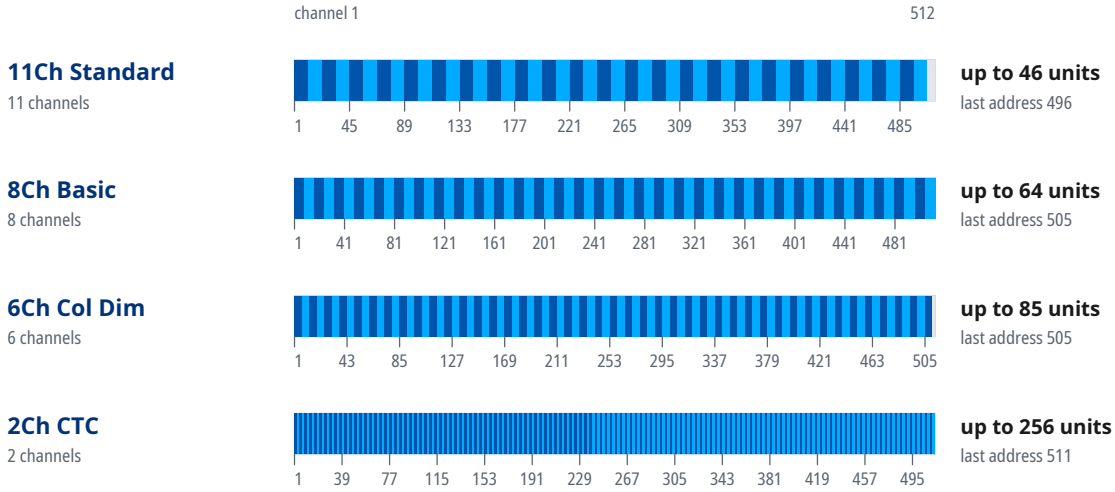


CH 8 · 11Ch Standard

11–255: 1–18 Hz
Strobe: Slow > Fast

9 DMX channels

Units in one DMX universe



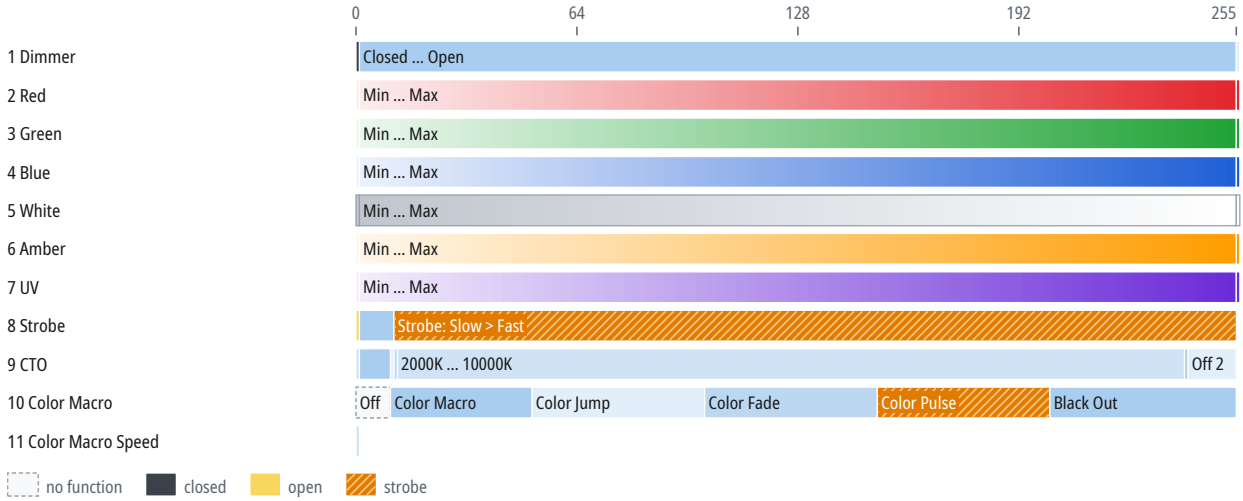
Start addresses of 20 units in the mode “11Ch Standard”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	56	11	111	16	166
2	12	7	67	12	122	17	177
3	23	8	78	13	133	18	188
4	34	9	89	14	144	19	199
5	45	10	100	15	155	20	210

Mode 11Ch Standard

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 8 Strobe at 0–10 “Open”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 2 Red 255, CH 3 Green 255, CH 4 Blue 255, CH 5 White 0, CH 6 Amber 0, CH 7 UV 0, CH 8 Strobe 0, CH 9 CTO 0, CH 10 Color Macro 0, CH 11 Color Macro Speed 0.

Channel functions at a glance



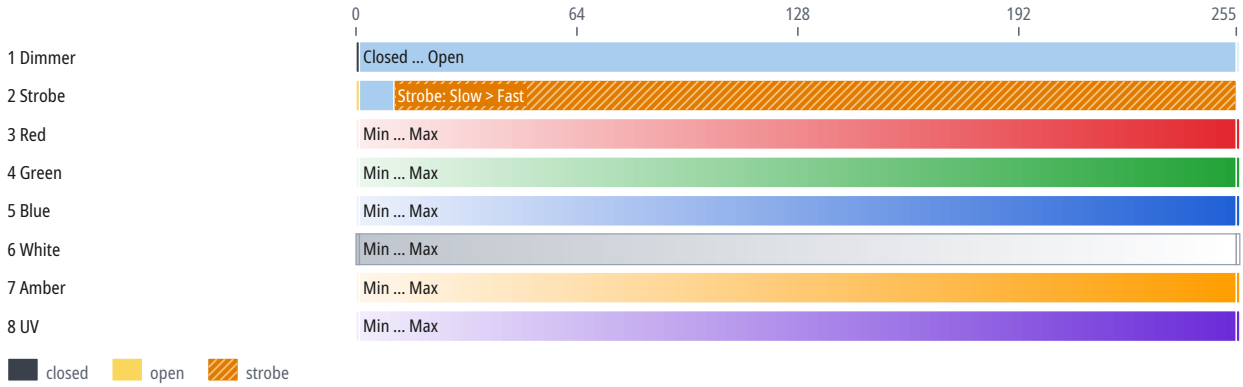
CH	Function	DMX	Description
1	Dimmer	0	Closed
		1–254	Closed ... Open
		255	Open
2	Red	0	Min
		1–254	Min ... Max
		255	Max
3	Green	0	Min
		1–254	Min ... Max
		255	Max
4	Blue	0	Min
		1–254	Min ... Max
		255	Max
5	White	0	Min
		1–254	Min ... Max
		255	Max
6	Amber	0	Min
		1–254	Min ... Max
		255	Max
7	UV	0	Min
		1–254	Min ... Max
		255	Max
8	Strobe	0–10	Open
		11–255	Strobe: Slow > Fast (1–18 Hz)
9	CTO	0	Off 1
		1–9	Black Out
		10	CTC
		11	2000K
		12–239	2000K ... 10000K
		240	10000K
		241–255	Off 2
10	Color Macro	0–9	Off
		10–50	Color Macro
		51–100	Color Jump
		101–150	Color Fade
		151–200	Color Pulse
		201–255	Black Out
11	Color Macro Speed		When CH 10 is 51–200:
		0–255	Slow > Fast
			When CH 10 is 10–50:
		0–7	Red
		8–15	Green

CH	Function	DMX	Description
11	Color Macro Speed (continued)	16–23	Blue
		24–31	White
		32–39	Amber
		40–47	UV
		48–55	Yellow
		56–63	Magenta
		64–71	Cyan
		72–79	Perano
		80–87	Salmon
		88–95	Aqua
		96–103	Azure
		104–111	Orange
		112–119	Pear
		120–127	Lavender
		128–135	CTO
		136–143	Rose
		144–151	Spring Green
		152–159	Dark Blue
		160–167	White 2
		168–175	Bronze
		176–183	Grey
		184–191	Lilac
		192–199	Sky Blue
		200–207	Orchid
		208–215	Tan
		216–223	Ultra Pink
		224–231	Turquoise
		232–239	Beige
		240–247	Gold
		248–255	Melrose

Mode 8Ch Basic

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Strobe at 0–10 “Open”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 2 Strobe 0, CH 3 Red 255, CH 4 Green 255, CH 5 Blue 255, CH 6 White 0, CH 7 Amber 0, CH 8 UV 0.

Channel functions at a glance

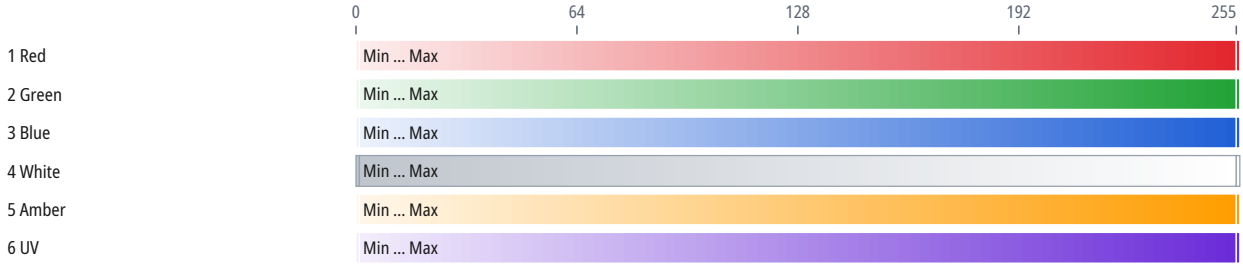


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “11Ch Standard” (p. 10)
2	Strobe		Same as CH 8 in the mode “11Ch Standard” (p. 10)
3	Red		Same as CH 2 in the mode “11Ch Standard” (p. 10)
4	Green		Same as CH 3 in the mode “11Ch Standard” (p. 10)
5	Blue		Same as CH 4 in the mode “11Ch Standard” (p. 10)
6	White		Same as CH 5 in the mode “11Ch Standard” (p. 10)
7	Amber		Same as CH 6 in the mode “11Ch Standard” (p. 10)
8	UV		Same as CH 7 in the mode “11Ch Standard” (p. 10)

Mode 6Ch Col Dim

The GDTF file gives these values for a console's Highlight function: CH 1 Red 255, CH 2 Green 255, CH 3 Blue 255, CH 4 White 0, CH 5 Amber 0, CH 6 UV 0.

Channel functions at a glance

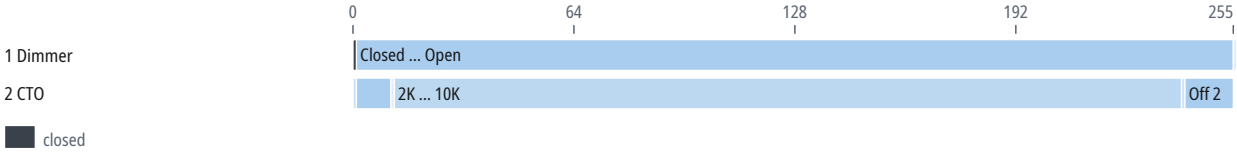


CH	Function	DMX	Description
1	Red		Same as CH 2 in the mode “11Ch Standard” (p. 10)
2	Green		Same as CH 3 in the mode “11Ch Standard” (p. 10)
3	Blue		Same as CH 4 in the mode “11Ch Standard” (p. 10)
4	White		Same as CH 5 in the mode “11Ch Standard” (p. 10)
5	Amber		Same as CH 6 in the mode “11Ch Standard” (p. 10)
6	UV		Same as CH 7 in the mode “11Ch Standard” (p. 10)

Mode 2Ch CTC

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 2 CTO 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “11Ch Standard” (p. 10)
2	CTO	0	Off 1
		1–10	Black Out
		11	2K
		12–239	2K ... 10K
		240	10K
		241–255	Off 2

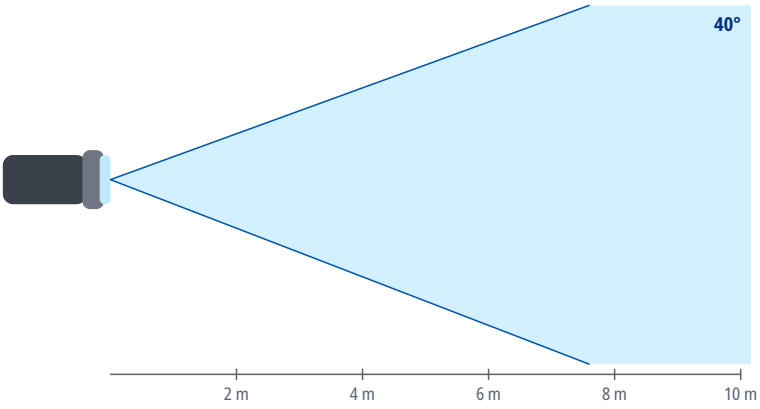
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	216 W
Luminous flux	6,400 lm
Color temperature	4,700 K
Color rendering index (CRI)	80
Optics	
Beam angle	40°
Control	
DMX connection	5-pin XLR IN/OUT
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	156 W
Power connectors	powerCON TRUE1 IN
Dimensions and construction	
Weight	5.2 kg
Operating environment	
Operating temperature	-30 to 85 °C

Speeds and ranges

Parameter	Value
Color temperature range	2000–10000 K
Strobe frequency	1–18 Hz

Spot diameter



Distance	Ø 40°
2 m	1.5 m
4 m	2.9 m
6 m	4.4 m
8 m	5.8 m
10 m	7.3 m
15 m	10.9 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.