DMX REFERENCE

P-760

P-760 (7*60W LED Par light with Zoom)

Favolite



Manufacturer	Favolite
GDTF file	Favolite_P-760_168439.gdtf
GDTF revision	2026-11-09
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Contents

1 About this manual 2
2 Quick reference 3
3 Safety instructions 4
4 Product description 5
5 Installation 5
6 Connections 5
7 Operation 6
8 Functions at a glance 6
9 DMX channels 8
Mode 17Ch 9
Mode 12CH 11
Mode 9CH 12
Mode 7CH 13
Mode 2CH 13
Mode 1CH 13
10 Technical specifications 14
11 Maintenance and cleaning 15
12 Troubleshooting 15
13 Disposal 15

1 About this manual

This document describes the P-760 (7*60W LED Par light with Zoom) by Favolite. It was compiled from the GDTF file Favolite_P-760_168439.gdtf from the GDTF-Share library.

File revision: “2026-11-09”.

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 Favolite; 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	6 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
17Ch	17	30	1, 18, 35, 52, ...
12CH	12	42	1, 13, 25, 37, ...
9CH	9	56	1, 10, 19, 28, ...
7CH	7	73	1, 8, 15, 22, ...
2CH	2	256	1, 3, 5, 7, ...
1CH	1	512	1, 2, 3, 4, ...

No light? Check these channels

- 17Ch: CH 11 Shutter at 0–7 “No function”; CH 12 Dimmer above 0
- 12CH: CH 7 Strobe Mode at 0–7 “No function”; CH 8 Dimmer above 0
- 9CH: CH 5 Strobe Mode at 0–7 “No function”; CH 6 Dimmer above 0
- 7CH: CH 5 Strobe Mode at 0–7 “No function”; CH 6 Dimmer above 0
- 2CH: CH 1 Dimmer above 0
- 1CH: 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.

> ⚠ **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

- 1. High brightness: Original Osram RGBW LED, 7X60W
- 2. 2.5°-60°, sharp beam & uniform wash
- 3. Super quiet
- 4. 40 LEE color macros
- 5. Memory function, Suitable for 1/2 channel mode .
- Easy control by non-lighting designer.
- 6. The Soft light diffusion film replaces the traditional
- barndoor, can rotatable; and can customize different
- specifications.

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: 6 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.

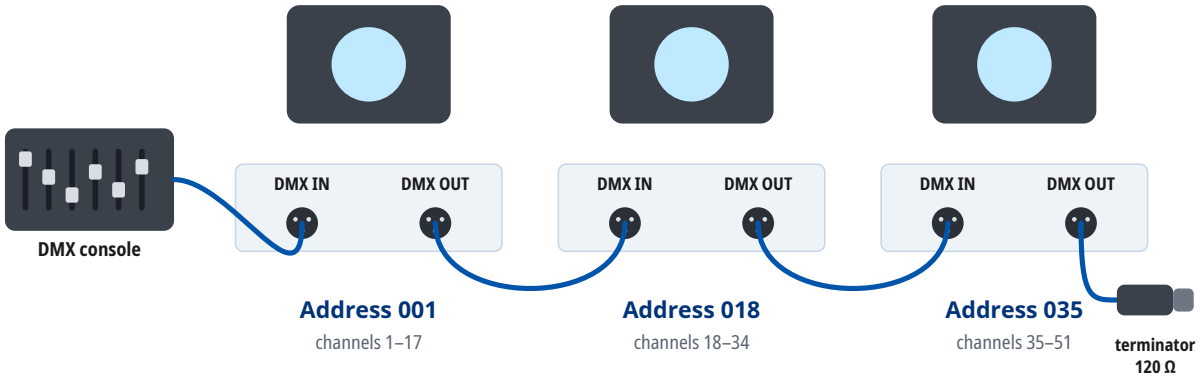
6 Connections

- 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 17Ch: every unit occupies 17 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

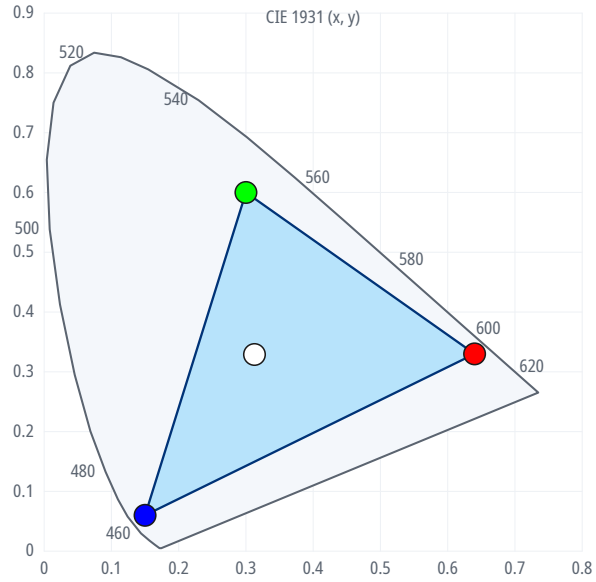
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “17Ch”: 17.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in the DMX mode “17Ch”, you can use, for example, the start addresses 1, 18, 35, 52.
- 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

	17Ch 17 channels	12CH 12 channels	9CH 9 channels	7CH 7 channels	2CH 2 channels	1CH 1 channel
Dimmer	12	8	6	6	1	1
Dimmer resolution	16 bit	8 bit	8 bit	8 bit	8 bit	8 bit
Shutter / strobe	11	7	5	5		
Color mixing	4× (1–7)	1–4	1–4	1–4		
Color temperature	9	5				
Zoom	16	11	8	7	2	
Effects / macros	10	6				

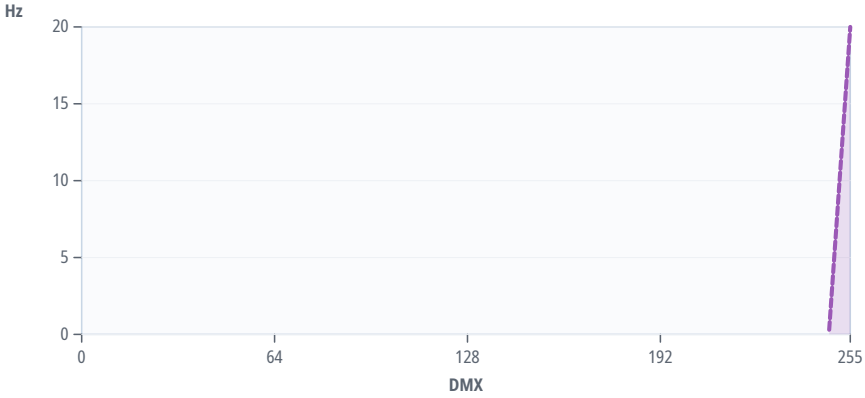
LED colors and the colors they mix



LED	x	y	nm
Red	0.640	0.330	626
Green	0.300	0.600	527
Blue	0.150	0.060	452
White	0.313	0.329	

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

Strobe rate

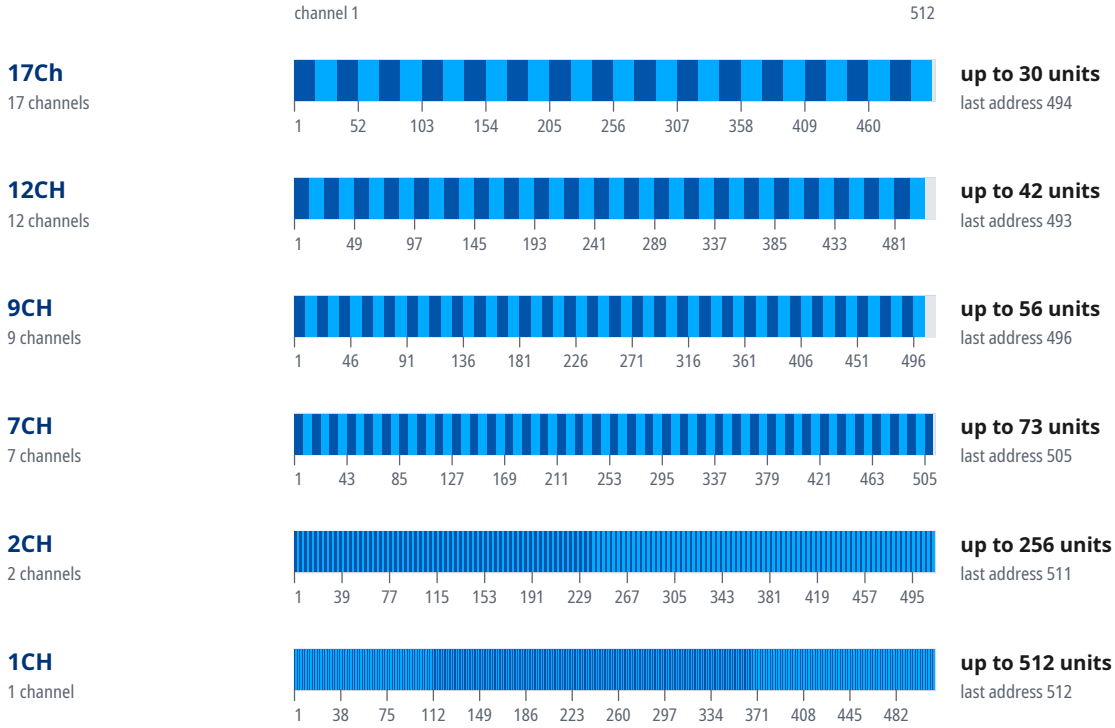


CH 11 · 17Ch

248–255: 0.3–20 Hz
Strobe Random

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “17Ch”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	86	11	171	16	256
2	18	7	103	12	188	17	273
3	35	8	120	13	205	18	290
4	52	9	137	14	222	19	307
5	69	10	154	15	239	20	324

Mode 17Ch

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 0–7 “No function”; 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 9 CTO 255, CH 12 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Red	0–255	Red
2	Red Fine	0–255	Fine adjustment of CH 1
3	Green	0–255	Green
4	Green Fine	0–255	Fine adjustment of CH 3
5	Blue	0–255	Blue
6	Blue Fine	0–255	Fine adjustment of CH 5
7	White	0–255	White
8	White Fine	0–255	Fine adjustment of CH 7
9	CTO	0–3	NO used
		4–5	10000
		6–7	8000
		8–9	7000
		10–11	6500
		12–13	5600
		14–15	4200
		16–17	3200
		18–19	2700
		20–255	10000-2700 (10000–2700 K)
10	Color Macro		Colour Macro
		0–1	No function
		2–3	All lights up

CH	Function	DMX	Description
10	Color Macro (continued)	4–5	Red
		6–7	Yellow
		8–9	Green
		10–11	Cyan
		12–13	Blue
		14–15	Purple
		16–239	Colour macro
		240–255	Rainbow effect from slow to fast
11	Shutter	0–7	No function
		8–67	Pulse shutting from slow to fast
		68–107	15% Shutting from slow to fast
		108–147	50% Flashing from slow to fast
		148–187	15% Flashing from slow to fast
		188–247	Pulse flashing from slow to fast
		248–251	Sync random strobe (0.3–20 Hz)
		252–255	Asynchronous random strobe (0.3–20 Hz)
12	Dimmer	0–255	
13	Dimmer Fine	0–255	Fine adjustment of CH 12
14	LED Frequency		Dimmer Frequency Curve Properties
		0–31	806Hz-Exponential Curve
		32–63	806Hz-Linear
		64–95	1562Hz-Exponential Curve
		96–127	1562Hz-Linear
		128–159	5000Hz-Exponential Curve
		160–191	5000Hz-Linear
		192–223	8333Hz-Exponential Curve
		224–255	8333Hz-Linear
15	Dimmer Mode		Dimmer Fade Speed
		0–7	Fastest and no fade
		8–247	Slow to fast
		248–255	Auto fade
16	Zoom	0–255	Zoom From Wide To Narrow (60–3°)
17	Calibration Reset	0–19	No Function
		20–29	Reset All
		30–189	No Function
		190–199	Unlock The Setting Lock
		200–255	Record a SNAP-SHOT

Mode 12CH

If the device receives DMX in this mode but gives no light, check these channels: CH 7 Strobe Mode at 0–7 “No function”; CH 8 Dimmer above 0. 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 5 CTO 255, CH 8 Dimmer 255.

Channel functions at a glance



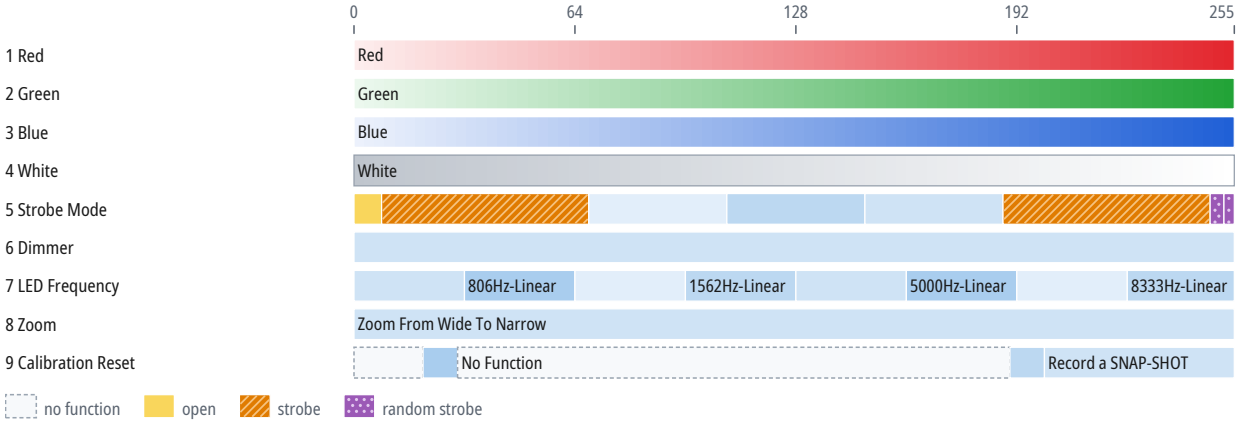
CH	Function	DMX	Description
1	Red	0–255	Red
2	Green	0–255	Green
3	Blue	0–255	Blue
4	White	0–255	White
5	CTO		Same as CH 9 in the mode “17Ch” (p. 9)
6	Color Macro Speed		Colour Macro
		0–1	No function
		2–3	All lights up
		4–5	Red
		6–7	Yellow
		8–9	Green
		10–11	Cyan
		12–13	Blue
		14–15	Purple
		16–239	Colour macro
		240–255	Rainbow effect from slow to fast
7	Strobe Mode	0–7	No function
		8–67	Pulse shutting from slow to fast
		68–107	15% Shutting from slow to fast
		108–147	50% Flashing from slow to fast
		148–187	15% Flashing from slow to fast
		188–247	Pulse flashing from slow to fast
		248–251	Sync random strobe (0.3–20 Hz)

CH	Function	DMX	Description
7	Strobe Mode (continued)	252–255	Asynchronous random strobe (0.3–20 Hz)
8	Dimmer	0–255	
9	LED Frequency		Same as CH 14 in the mode “17Ch” (p. 10)
10	Dimmer Mode		Same as CH 15 in the mode “17Ch” (p. 10)
11	Zoom	0–255	Zoom From Wide To Narrow (3–60°)
12	Calibration Reset		Same as CH 17 in the mode “17Ch” (p. 10)

Mode 9CH

If the device receives DMX in this mode but gives no light, check these channels: CH 5 Strobe Mode at 0–7 “No function”; CH 6 Dimmer above 0. 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 6 Dimmer 255.

Channel functions at a glance

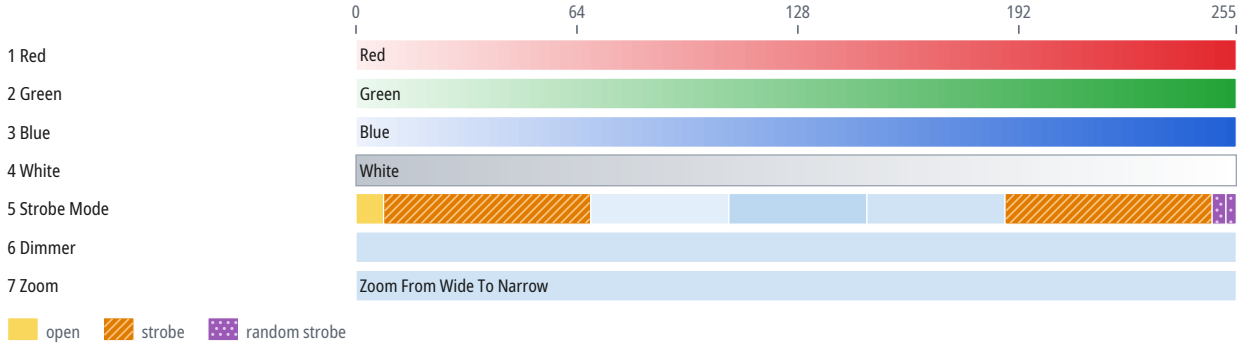


CH	Function	DMX	Description
1	Red	0–255	Red
2	Green	0–255	Green
3	Blue	0–255	Blue
4	White	0–255	White
5	Strobe Mode		Same as CH 7 in the mode “12CH” (p. 11)
6	Dimmer	0–255	
7	LED Frequency		Same as CH 14 in the mode “17Ch” (p. 10)
8	Zoom	0–255	Zoom From Wide To Narrow (3–60°)
9	Calibration Reset		Same as CH 17 in the mode “17Ch” (p. 10)

Mode 7CH

If the device receives DMX in this mode but gives no light, check these channels: CH 5 Strobe Mode at 0–7 “No function”; CH 6 Dimmer above 0. 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 6 Dimmer 255.

Channel functions at a glance

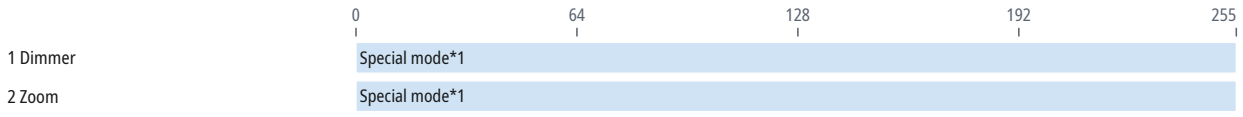


CH	Function	DMX	Description
1	Red	0–255	Red
2	Green	0–255	Green
3	Blue	0–255	Blue
4	White	0–255	White
5	Strobe Mode		Same as CH 7 in the mode “12CH” (p. 11)
6	Dimmer	0–255	
7	Zoom	0–255	Zoom From Wide To Narrow (3–60°)

Mode 2CH

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.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	Special mode*1
2	Zoom	0–255	Special mode*1 (3–60°)

Mode 1CH

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.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	Special mode*1

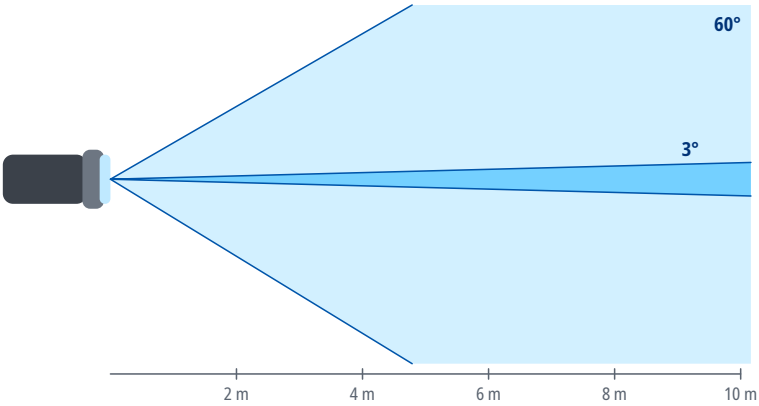
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	420 W
Luminous flux	6,500 lm
Color temperature	6,000 K
Color rendering index (CRI)	75
Optics	
Zoom	3–60°
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	6 kg
Operating environment	
Operating temperature	-10 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	2700–10000 K
LED frequency	806–8333 Hz

Spot diameter



Distance	Ø 3°	Ø 60°
2 m	0.1 m	2.3 m
4 m	0.21 m	4.6 m
6 m	0.31 m	6.9 m
8 m	0.42 m	9.2 m
10 m	0.52 m	11.5 m
15 m	0.79 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.

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.