DMX REFERENCE

F-0760BW

F-0760BW （ 7*60W LED wash+beam ）

Favolite



Manufacturer	Favolite
GDTF file	Favolite_F-0760BW_169423.gdtf
GDTF revision	261115 · 2026-11-15
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1 About this manual

This document describes the F-0760BW (7*60W LED wash+beam) by Favolite. It was compiled from the GDTF file Favolite_F-0760BW_169423.gdtf from the GDTF-Share library.

File revision: “261115”.

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	520 W
Weight	9 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Extended - 23CH	23	22	1, 24, 47, 70, ...
Standard-21CH	21	24	1, 22, 43, 64, ...
Basic-16CH	16	32	1, 17, 33, 49, ...

No light? Check these channels

- Extended - 23CH: CH 12 Dimmer above 0
- Standard-21CH: CH 12 Dimmer above 0
- Basic-16CH: CH 8 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.

> ⚠ **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

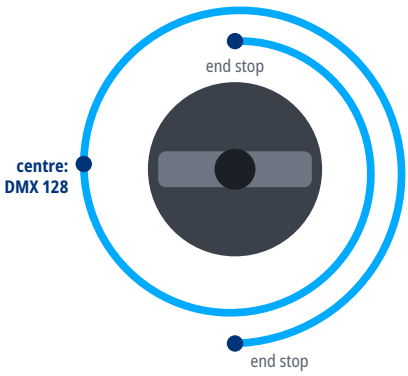
Description in the GDTF file

- Features:
- 1. Original Osram LED, 7X60W, high brightness;
- 2. 2.5°-60°, sharp beam&uniform wash ;
- 3. Small size, only 9kg;
- 4. Advanced cooling system, lower temperature, super quiet
- 5. Flicker-free

Range of movement

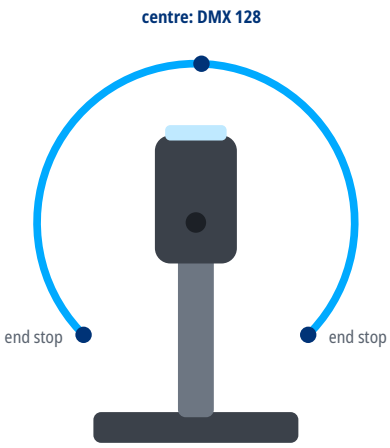
Pan 540°

top view



Tilt 270°

side view



5 Installation

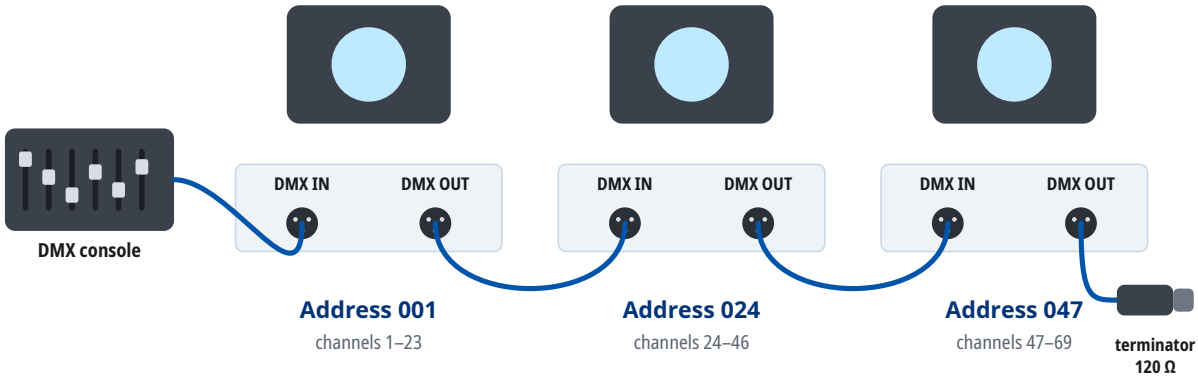
⚠ **WARNING**

- 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: 9 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 Extended - 23CH: every unit occupies 23 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 “Extended - 23CH”: 23.
- 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 “Extended - 23CH”, you can use, for example, the start addresses 1, 24, 47, 70.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

8 Functions at a glance

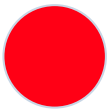
Functions in each DMX mode

	Extended - 23CH 23 channels	Standard-21CH 21 channels	Basic-16CH 16 channels
Pan / Tilt	14, 16	14, 16	9, 11
Dimmer	12	12	8
Dimmer resolution	16 bit	16 bit	8 bit
Shutter / strobe	11	11	7
Color mixing	4× (1–7)	4× (1–7)	1–4
Color temperature	9	9	5
Color wheel	10	10	6
Zoom	20	20	15

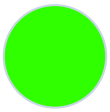
Color wheel

1 NC
DMX 0–1

2 
All the light
DMX 2–3

3 
Red
DMX 4–5

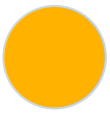
4 
Yellow
DMX 6–7

5 
Green
DMX 8–9

6 
Cyan
DMX 10–11

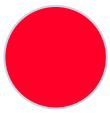
7 
Blue
DMX 12–13

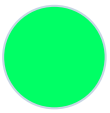
8 
Purple
DMX 14–15

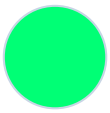
9 
020 Medium Amber
DMX 16–17

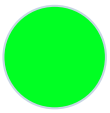
10 
021 Gold Amber
DMX 18

11 
135 Deep Golden Amber
DMX 19

12 
164 Flame Red
DMX 20–21

13 
090 Dark Yellow Green
DMX 22–23

14 
738 JAS Green
DMX 24–25

15 
735 Velvet Green
DMX 26–27

16 
118 Light Blue
DMX 28–29

17 
068 Sky Blue
DMX 30–31

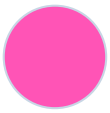
18 
799 Special KH Lavender
DMX 32–33

19 
180 Dark Lavender
DMX 34–35

20 
194 Surprise Pink
DMX 36–37

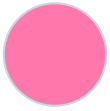
21 
128 Bright Pink
DMX 38–39

22 
793 Vanity Fair
DMX 40–41

23 
332 Special Rose Pink
DMX 42–43

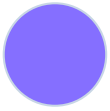
24 
046 Dark Magenta
DMX 44–45

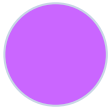
25 
113 Magenta
DMX 46–47

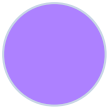
26 
110 Middle Rose
DMX 48–49

27
728 Steel Green
DMX 50

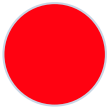
28 
712 Bedford Blue
DMX 51

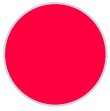
29 
142 Pale Violet
DMX 52

30 
704 Lily
DMX 53

31 
703 Cold Lavender
DMX 54–74

32 
793 Vanity Fair 1
DMX 75–80

33 
106 Primary Red
DMX 81–82

34 
182 Light Red
DMX 83–95

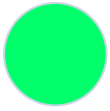
35 
135 Deep Golden Amber 1
DMX 96–101

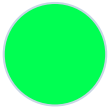
36 
021 Gold Amber 1
DMX 102–108

37 
104 Deep Amber
DMX 109–114

38
100 Spring Yellow
DMX 115–124

39
121 LEE Green
DMX 125–134

40 
090 Dark Yellow Green 1
DMX 135–144

41 
089 Moss Green
DMX 145–150

42
124 Dark Green
DMX 151

43
122 Fern Green
DMX 152–155

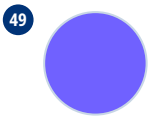
44
735 Velvet Green 1
DMX 156–158

45
115 Peacock Blue
DMX 159–163

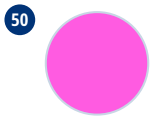
46
118 Light Blue 1
DMX 164–179

47
132 Medium Blue
DMX 180–199

48
716 Mikkel Blue
DMX 200–222

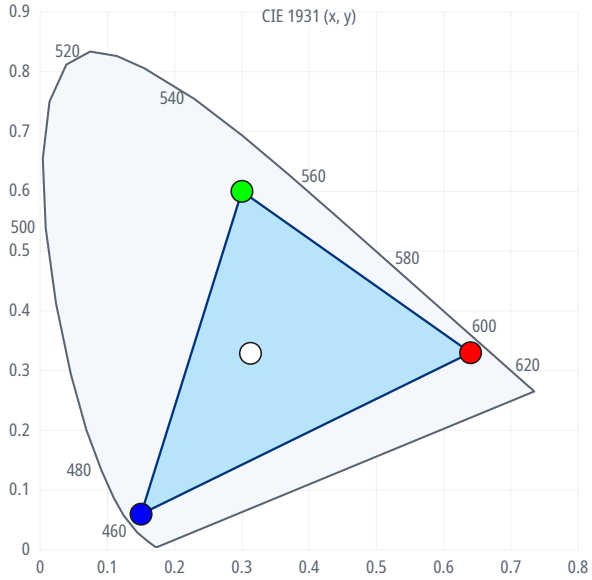


142 Pale Violet
DMX 223–233



052 Light Lavender
DMX 234–240

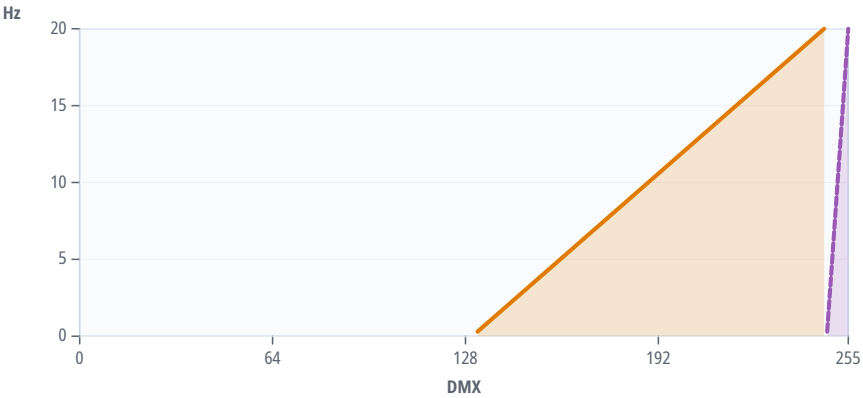
LED colors and the colors they mix



LED	x	y
Red	0.640	0.330
Green	0.300	0.600
Blue	0.150	0.060
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



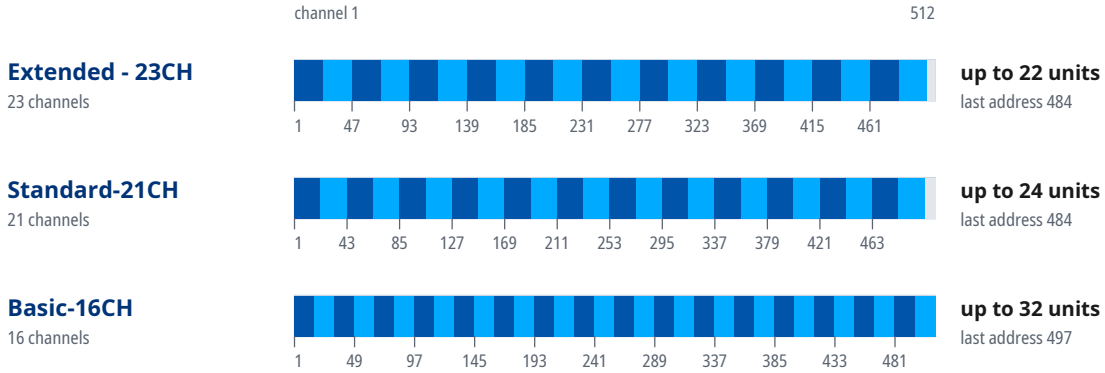
CH 11 · Extended - 23CH

132–247: 0.3–20 Hz
Half Strobe From Slow To Fast

248–255: 0.3–20 Hz
Shutter1StrobeRandom

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Extended - 23CH”

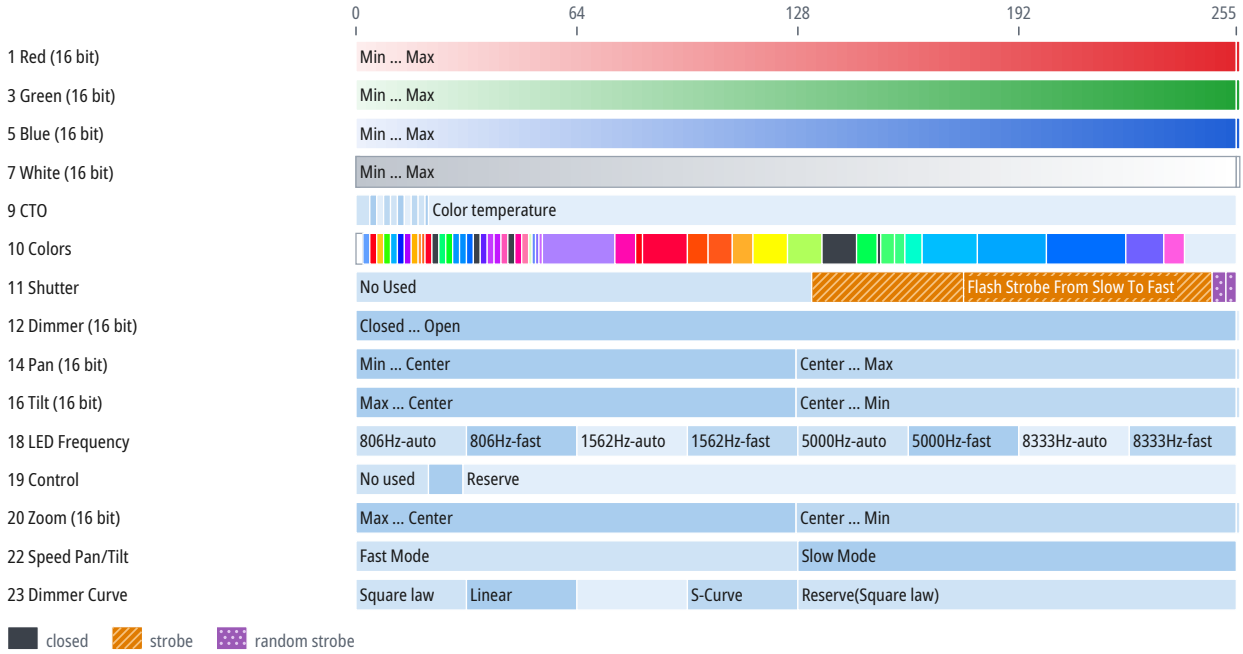
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	116	11	231	16	346
2	24	7	139	12	254	17	369
3	47	8	162	13	277	18	392
4	70	9	185	14	300	19	415
5	93	10	208	15	323	20	438

Mode Extended - 23CH

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 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 11 Shutter 0, CH 12 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Red	0–255	Min ... Max
		255	Max
2	Red Fine	0–255	Fine adjustment of CH 1
3	Green	0–255	Min ... Max
		255	Max
4	Green Fine	0–255	Fine adjustment of CH 3
5	Blue	0–255	Min ... Max
		255	Max
6	Blue Fine	0–255	Fine adjustment of CH 5
7	White	0–255	Min ... Max
		255	Max
8	White Fine	0–255	Fine adjustment of CH 7
9	CTO		Color temperature
		0–3	NO used
		4–5	10000
		6–7	8000
		8–9	7000
		10–11	6500
		12–13	5600

CH	Function	DMX	Description
9	CTO (continued)	14–15	4200
		16–17	3200
		18–19	2700
		20	10000-2700 (10000–2700 K)
		21–255	Color temperature
10	Colors	0–1	NC
		2–3	All the light
		4–5	Red
		6–7	Yellow
		8–9	Green
		10–11	Cyan
		12–13	Blue
		14–15	Purple
		16–17	020 Medium Amber
		18	021 Gold Amber
		19	135 Deep Golden Amber
		20–21	164 Flame Red
		22–23	090 Dark Yellow Green
		24–25	738 JAS Green
		26–27	735 Velvet Green
		28–29	118 Light Blue
		30–31	068 Sky Blue
		32–33	799 Special KH Lavender
		34–35	180 Dark Lavender
		36–37	194 Surprise Pink
		38–39	128 Bright Pink
		40–41	793 Vanity Fair
		42–43	332 Special Rose Pink
		44–45	046 Dark Magenta
		46–47	113 Magenta
		48–49	110 Middle Rose
		50	728 Steel Green
		51	712 Bedford Blue
		52	142 Pale Violet
		53	704 Lily
		54–74	703 Cold Lavender
		75–80	793 Vanity Fair 1
		81–82	106 Primary Red
		83–95	182 Light Red
		96–101	135 Deep Golden Amber 1
		102–108	021 Gold Amber 1
		109–114	104 Deep Amber

CH	Function	DMX	Description
10	Colors (continued)	115–124	100 Spring Yellow
		125–134	121 LEE Green
		135–144	090 Dark Yellow Green 1
		145–150	089 Moss Green
		151	124 Dark Green
		152–155	122 Fern Green
		156–158	735 Velvet Green 1
		159–163	115 Peacock Blue
		164–179	118 Light Blue 1
		180–199	132 Medium Blue
		200–222	716 Mikkel Blue
		223–233	142 Pale Violet
		234–239	052 Light Lavender
		240–255	Rainbow Effect From Slow To Fast (1–300 °/s)
11	Shutter	0–131	No Used
		132–175	Half Strobe From Slow To Fast (0.5–1.5 Hz)
		176–247	Flash Strobe From Slow To Fast (0.3–20 Hz)
		248–251	Sync Random Strobe (0.3–20 Hz)
		252–255	Asynchronous Random Strobe (0.3–20 Hz)
12	Dimmer	0–255	Closed ... Open
		255	Open
13	Dimmer Fine	0–255	Fine adjustment of CH 12
14	Pan	0–127	Min ... Center
		128–255	Center ... Max
		255	Max
15	Pan Fine	0–255	Fine adjustment of CH 14
16	Tilt	0–127	Max ... Center
		128–255	Center ... Min
		255	Min
17	Tilt Fine	0–255	Fine adjustment of CH 16
18	LED Frequency		Dimmer mode
		0–31	806Hz-auto
		32–63	806Hz-fast
		64–95	1562Hz-auto
		96–127	1562Hz-fast
		128–159	5000Hz-auto
		160–191	5000Hz-fast
		192–223	8333Hz-auto
		224–255	8333Hz-fast
19	Control		Resetall 1
		0–20	No used
		21–30	Reset all

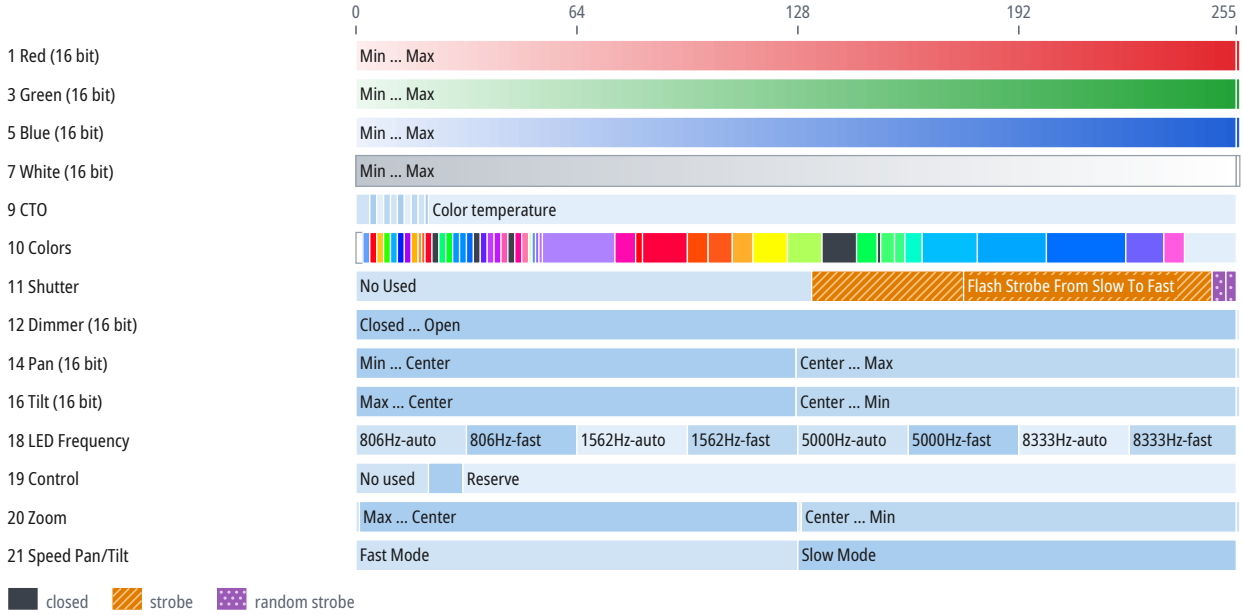
CH	Function	DMX	Description
19	Control (continued)	31–255	Reserve
20	Zoom	0–127	Max ... Center
		128–255	Center ... Min
		255	Min
21	Zoom Fine	0–255	Fine adjustment of CH 20
22	Speed Pan/Tilt		Motor mode
		0–127	Fast Mode
		128–255	Slow Mode
23	Dimmer Curve	0–31	Square law
		32–63	Linear
		64–95	Inverse square law
		96–127	S-Curve
		128–255	Reserve(Square law)

Mode Standard-21CH

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 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 11 Shutter 0, CH 12 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Red		Same as CH 1 in the mode “Extended - 23CH” (p. 11)
2	Red Fine	0–255	Fine adjustment of CH 1
3	Green		Same as CH 3 in the mode “Extended - 23CH” (p. 11)
4	Green Fine	0–255	Fine adjustment of CH 3
5	Blue		Same as CH 5 in the mode “Extended - 23CH” (p. 11)
6	Blue Fine	0–255	Fine adjustment of CH 5

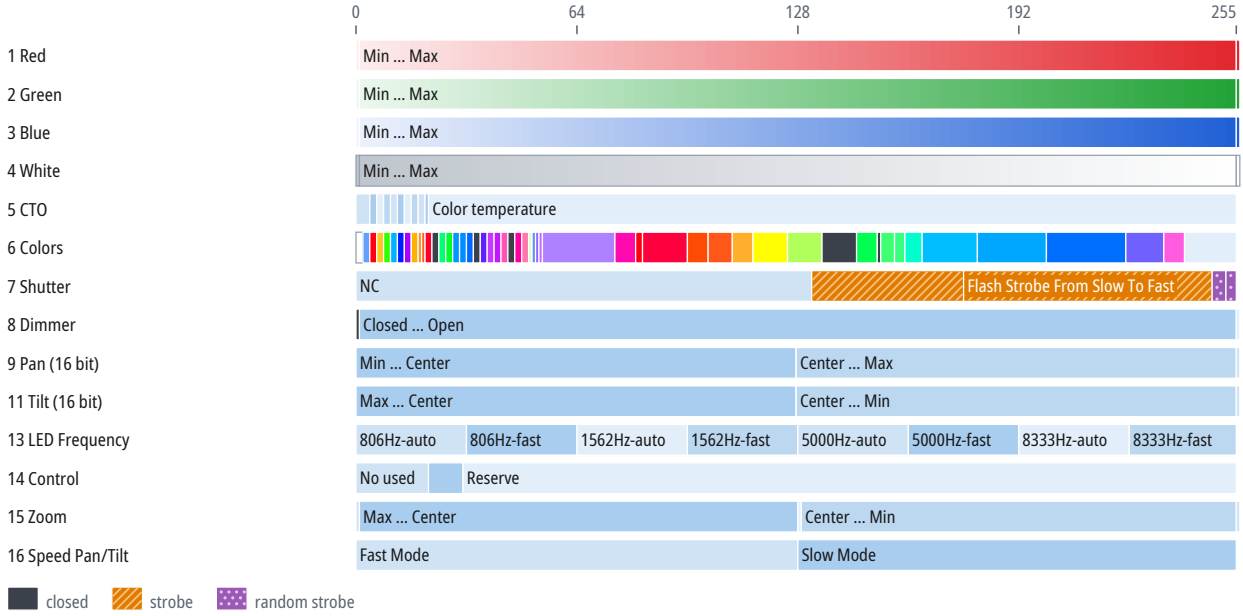
CH	Function	DMX	Description
7	White		Same as CH 7 in the mode “Extended - 23CH” (p. 11)
8	White Fine	0–255	Fine adjustment of CH 7
9	CTO		Same as CH 9 in the mode “Extended - 23CH” (p. 11)
10	Colors		Same as CH 10 in the mode “Extended - 23CH” (p. 12)
11	Shutter		Same as CH 11 in the mode “Extended - 23CH” (p. 13)
12	Dimmer		Same as CH 12 in the mode “Extended - 23CH” (p. 13)
13	Dimmer Fine	0–255	Fine adjustment of CH 12
14	Pan		Same as CH 14 in the mode “Extended - 23CH” (p. 13)
15	Pan Fine	0–255	Fine adjustment of CH 14
16	Tilt		Same as CH 16 in the mode “Extended - 23CH” (p. 13)
17	Tilt Fine	0–255	Fine adjustment of CH 16
18	LED Frequency		Same as CH 18 in the mode “Extended - 23CH” (p. 13)
19	Control		Same as CH 19 in the mode “Extended - 23CH” (p. 13)
20	Zoom	0	Max
		1–127	Max ... Center
		128	Center
		129–254	Center ... Min
		255	Min
21	Speed Pan/Tilt		Same as CH 22 in the mode “Extended - 23CH” (p. 14)

Mode Basic-16CH

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 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 4 White 255, CH 7 Shutter 0, CH 8 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Red	0	Min
		1–254	Min ... Max
		255	Max
2	Green	0	Min
		1–254	Min ... Max
		255	Max
3	Blue	0	Min
		1–254	Min ... Max
		255	Max
4	White	0	Min
		1–254	Min ... Max
		255	Max
5	CTO		Same as CH 9 in the mode “Extended - 23CH” (p. 11)
6	Colors		Same as CH 10 in the mode “Extended - 23CH” (p. 12)
7	Shutter	0–131	NC
		132–175	Half Strobe From Slow To Fast (0.5–1.5 Hz)
		176–247	Flash Strobe From Slow To Fast (0.3–20 Hz)
		248–251	Sync Random Strobe (0.3–20 Hz)
		252–255	Asynchronous Random Strobe (0.3–20 Hz)
8	Dimmer	0	Closed
		1–254	Closed ... Open
		255	Open
9	Pan		Same as CH 14 in the mode “Extended - 23CH” (p. 13)
10	Pan Fine	0–255	Fine adjustment of CH 9
11	Tilt		Same as CH 16 in the mode “Extended - 23CH” (p. 13)
12	Tilt Fine	0–255	Fine adjustment of CH 11
13	LED Frequency		Same as CH 18 in the mode “Extended - 23CH” (p. 13)
14	Control		Same as CH 19 in the mode “Extended - 23CH” (p. 13)
15	Zoom		Same as CH 20 in the mode “Standard-21CH” (p. 15)
16	Speed Pan/Tilt		Same as CH 22 in the mode “Extended - 23CH” (p. 14)

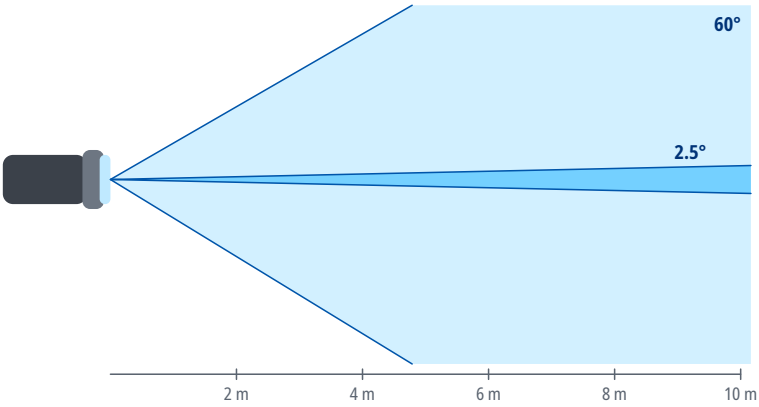
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	420 W
Luminous flux	7,222 lm
Color temperature	6,000 K
Color rendering index (CRI)	90
Optics	
Zoom	2.5–60°
Movement	
Pan	540°
Tilt	270°
Control	
DMX connection	5-pin XLR IN/OUT
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	520 W
Power connectors	powerCON TRUE1 IN/OUT
Dimensions and construction	
Weight	9 kg
Operating environment	
Operating temperature	-10 to 45 °C

Speeds and ranges

Parameter	Value
Color temperature range	2700–10000 K
LED frequency	806–8333 Hz
Color wheel rotation	up to 300 °/s (50 rpm)

Spot diameter



Distance	Ø 2.5°	Ø 60°
2 m	0.09 m	2.3 m
4 m	0.17 m	4.6 m
6 m	0.26 m	6.9 m
8 m	0.35 m	9.2 m
10 m	0.44 m	11.5 m
15 m	0.65 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.