DMX REFERENCE

Atlas 2

Master FX



Manufacturer	Master FX
GDTF file	Master_FX_Atlas_2_168828.gdtf
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1 About this manual

This document describes the Atlas 2 by Master FX. It was compiled from the GDTF file Master_FX_Atlas_2_168828.gdtf from the GDTF-Share library.

File revision: “rev1_22”.

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 Master FX; 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	37 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
10ch	10	51	1, 11, 21, 31, ...
16ch	16	32	1, 17, 33, 49, ...
26ch	26	19	1, 27, 53, 79, ...

No light? Check these channels

- 10ch: CH 8 Strobe Speed at 0–10 “No Strobe”; CH 9 Dimmer above 0
- 16ch: CH 14 Strobe Speed at 0–10 “No Strobe”; CH 15 Dimmer above 0
- 26ch: CH 24 Strobe Speed at 0–10 “No Strobe”; CH 25 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.

4 Product description

Description in the GDTF file

“Vertical Upshot Fog Generator w/ 44 10watt RGBAW LED's”

5 Installation

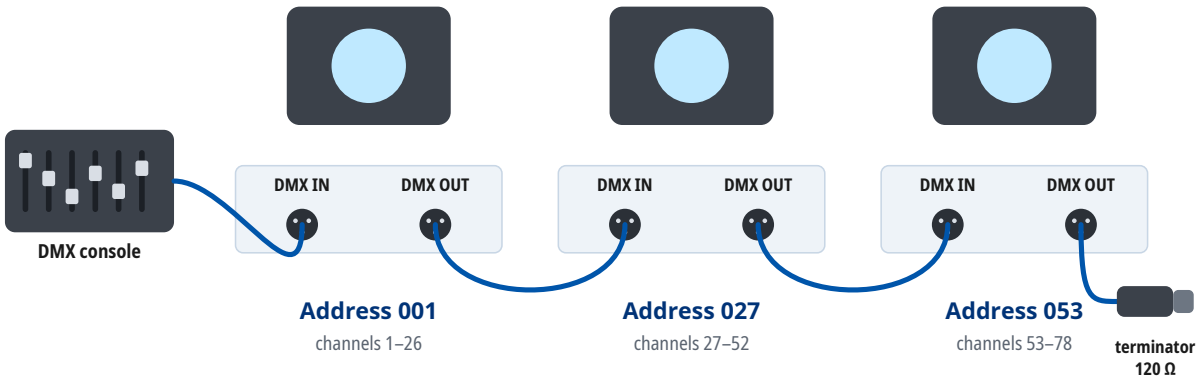
⚠ WARNING

- 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: 37 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 26ch: every unit occupies 26 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

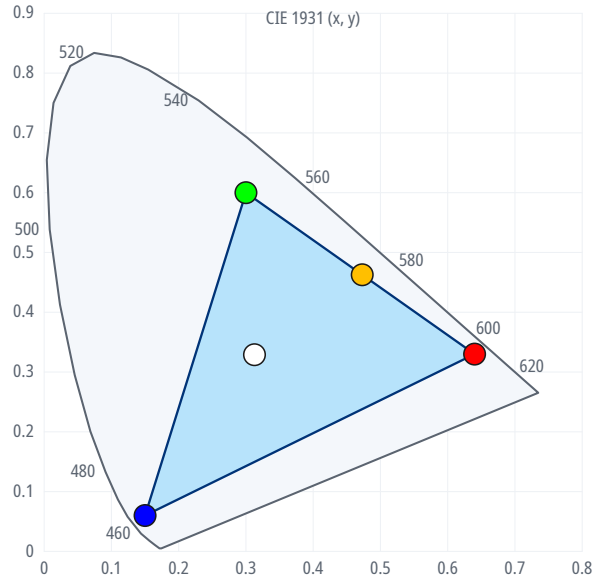
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “26ch”: 26.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in the DMX mode “26ch”, you can use, for example, the start addresses 1, 27, 53, 79.
- 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

	10ch 10 channels	16ch 16 channels	26ch 26 channels
Dimmer	9	15	25
Shutter / strobe	8	14	24
Color mixing	2–6	3–12	3–22
Pixel control			✓

LED colors and the colors they mix

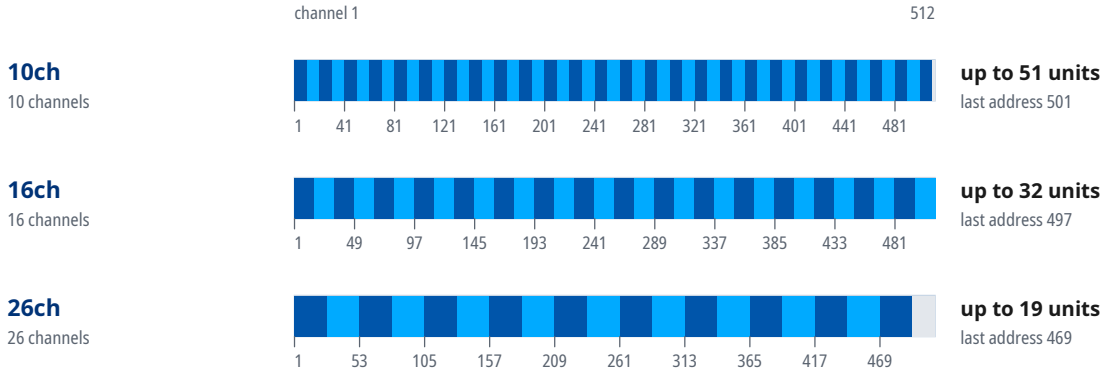


LED	x	y	nm
Red	0.640	0.330	622
Green	0.300	0.600	526
Blue	0.150	0.060	455
Amber	0.473	0.463	594
White	0.313	0.329	

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

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “26ch”

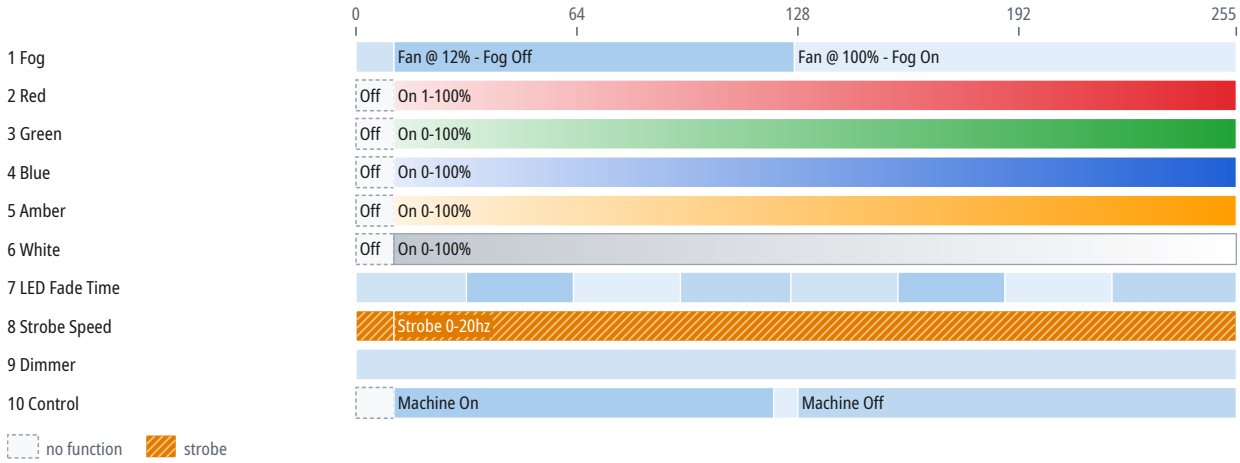
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	131	11	261	16	391
2	27	7	157	12	287	17	417
3	53	8	183	13	313	18	443
4	79	9	209	14	339	19	469
5	105	10	235	15	365	20	U2 · 1

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 10ch

If the device receives DMX in this mode but gives no light, check these channels: CH 8 Strobe Speed at 0–10 “No Strobe”; CH 9 Dimmer above 0.

Channel functions at a glance

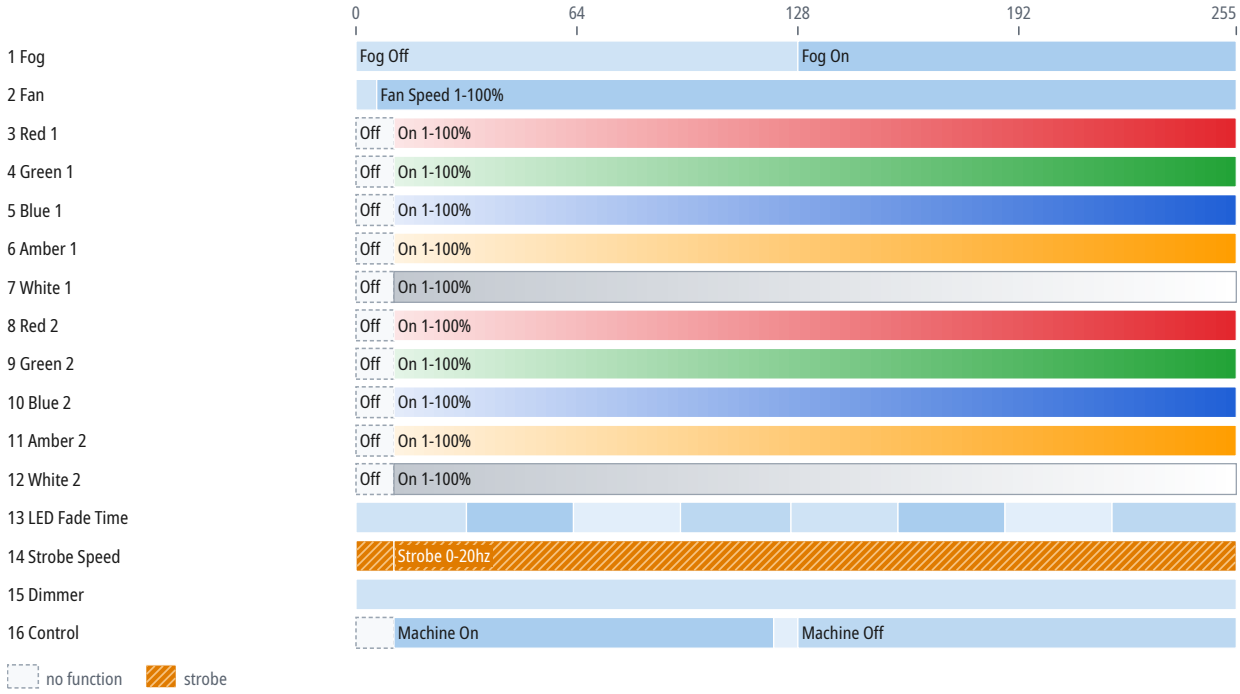


CH	Function	DMX	Description
1	Fog		Fan and Fog
		0–10	Fan and Fog Off
		11–126	Fan @ 12% - Fog Off
		127–255	Fan @ 100% - Fog On
2	Red	0–10	Off
		11–255	On 1-100%
3	Green	0–10	Off
		11–255	On 0-100%
4	Blue	0–10	Off
		11–255	On 0-100%
5	Amber	0–10	Off
		11–255	On 0-100%
6	White	0–10	Off
		11–255	On 0-100%
7	LED Fade Time	0–31	LED Fade Time Off
		32–62	LED Fade Time 1/2 Second
		63–93	LED Fade Time 1 Second
		94–125	LED Fade Time 2 Seconds
		126–156	LED Fade Time 3 Seconds
		157–187	LED Fade Time 4 Seconds
		188–218	LED Fade Time 5 Seconds
		219–255	LED Fade Time Max
8	Strobe Speed	0–10	No Strobe
		11–255	Strobe 0-20hz
9	Dimmer	0–255	
10	Control	0–10	No Function
		11–120	Machine On
		121–127	Purge Mode
		128–255	Machine Off

Mode 16ch

If the device receives DMX in this mode but gives no light, check these channels: CH 14 Strobe Speed at 0–10 “No Strobe”; CH 15 Dimmer above 0.

Channel functions at a glance



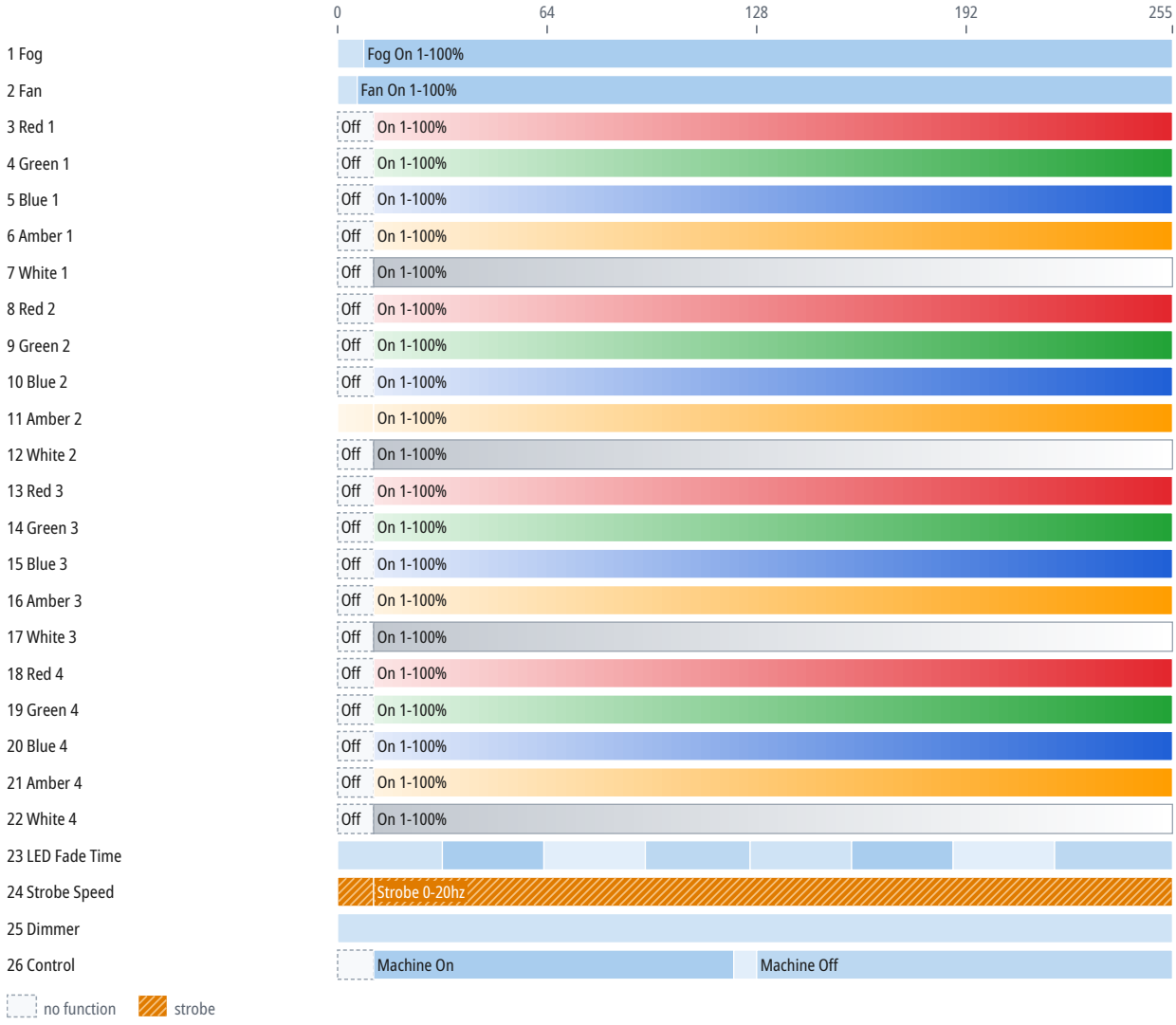
CH	Function	DMX	Description
1	Fog	0–127	Fog Off
		128–255	Fog On
2	Fan	0–5	Fan Off
		6–255	Fan Speed 1-100%
3	Red 1		Red - Outside
		0–10	Off
		11–255	On 1-100%
4	Green 1		Green - Outside
		0–10	Off
		11–255	On 1-100%
5	Blue 1		Blue - Outside
		0–10	Off
		11–255	On 1-100%
6	Amber 1		Amber - Outside
		0–10	Off
		11–255	On 1-100%
7	White 1		White - Outside
		0–10	Off
		11–255	On 1-100%
8	Red 2		Red - Inside

CH	Function	DMX	Description
8	Red 2 (continued)	0–10	Off
		11–255	On 1-100%
9	Green 2		Green - Inside
		0–10	Off
		11–255	On 1-100%
10	Blue 2		Blue - Inside
		0–10	Off
		11–255	On 1-100%
11	Amber 2		Amber - Inside
		0–10	Off
		11–255	On 1-100%
12	White 2		White - Inside
		0–10	Off
		11–255	On 1-100%
13	LED Fade Time		Same as CH 7 in the mode “10ch” (p. 8)
14	Strobe Speed		Same as CH 8 in the mode “10ch” (p. 8)
15	Dimmer	0–255	
16	Control		Same as CH 10 in the mode “10ch” (p. 8)

Mode 26ch

If the device receives DMX in this mode but gives no light, check these channels: CH 24 Strobe Speed at 0–10 “No Strobe”; CH 25 Dimmer above 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Fog	0–7	Fog Off
		8–255	Fog On 1-100%
2	Fan	0–5	Fan Off
		6–255	Fan On 1-100%
3	Red 1		Red - Front
		0–10	Off
		11–255	On 1-100%
4	Green 1		Green - Front
		0–10	Off
		11–255	On 1-100%
5	Blue 1		Blue - Front

CH	Function	DMX	Description
5	Blue 1 (continued)	0–10	Off
		11–255	On 1-100%
6	Amber 1		Amber - Front
		0–10	Off
		11–255	On 1-100%
7	White 1		White - Front
		0–10	Off
		11–255	On 1-100%
8	Red 2		Red - Right
		0–10	Off
		11–255	On 1-100%
9	Green 2		Green - Right
		0–10	Off
		11–255	On 1-100%
10	Blue 2		Blue - Right
		0–10	Off
		11–255	On 1-100%
11	Amber 2		Amber - Right
		0–10	OffEmpty Channel Set
		11–255	On 1-100%
12	White 2		White - Right
		0–10	Off
		11–255	On 1-100%
13	Red 3		Red - Back
		0–10	Off
		11–255	On 1-100%
14	Green 3		Green - Back
		0–10	Off
		11–255	On 1-100%
15	Blue 3		Blue - Back
		0–10	Off
		11–255	On 1-100%
16	Amber 3		Amber - Back
		0–10	Off
		11–255	On 1-100%
17	White 3		White - Back
		0–10	Off
		11–255	On 1-100%
18	Red 4		Red - Left
		0–10	Off
		11–255	On 1-100%
19	Green 4		Green - Left

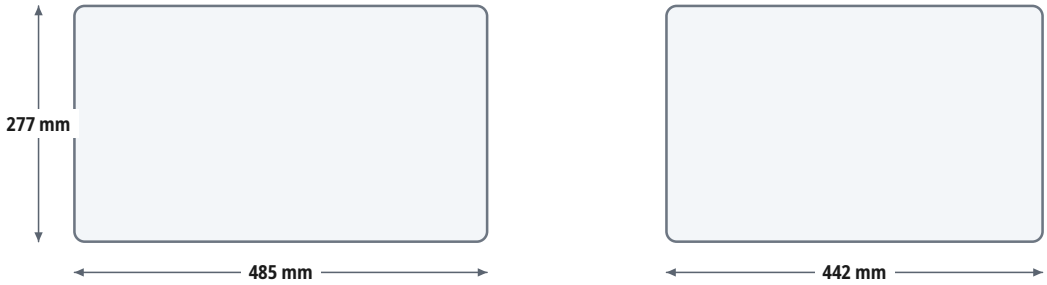
CH	Function	DMX	Description
19	Green 4 (continued)	0–10	Off
		11–255	On 1-100%
20	Blue 4		Blue - Left
		0–10	Off
		11–255	On 1-100%
21	Amber 4		Amber - Left
		0–10	Off
		11–255	On 1-100%
22	White 4		White - Left
		0–10	Off
		11–255	On 1-100%
23	LED Fade Time	0–31	LED Fade Time Off
		32–62	LED Fade Time 1/2 Second
		63–93	LED Fade Time 1 Second
		94–125	LED Fade Time 2 Seconds
		126–156	LED Fade Time 3 Seconds
		157–187	LED Fade Time 4 Seconds
		188–218	LED Fade Time 5 Seconds
		219–255	LED Fade TIme Max
24	Strobe Speed		Same as CH 8 in the mode “10ch” (p. 8)
25	Dimmer	0–255	
26	Control		Same as CH 10 in the mode “10ch” (p. 8)

10 Technical specifications

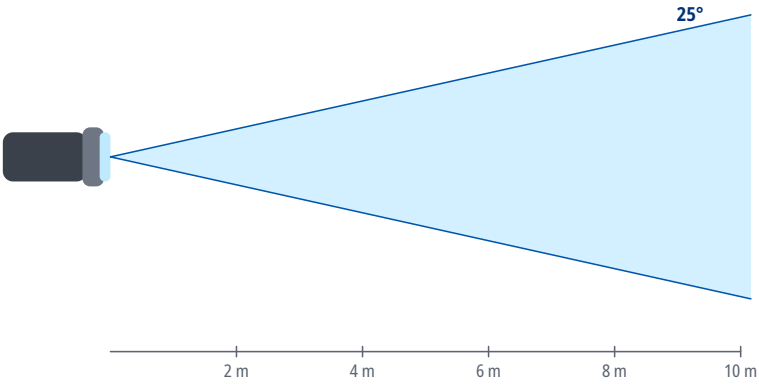
Parameter	Value
Light source	LED
Weight	37 kg
Operating temperature	-15 to 50 °C

Dimensions

weight 37 kg



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.