DMX REFERENCE

LV7

Lexvision LV7 Battery

Lexvision

Manufacturer	Lexvision
GDTF file	Lexvision_LV7_145464.gdtf
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Contents

1 About this manual 2
2 Quick reference 3
3 Safety instructions 4
4 Product description 4
5 Installation 5
6 Connections 5
7 Operation 6
8 Functions at a glance 6
9 DMX channels 8
Mode 2CH 9
Mode 3CH HSV 10
Mode 4CH RGBW 11
Mode 5CH 11
Mode 9CH 12
Mode 12CH 13
10 Technical specifications 16
11 Maintenance and cleaning 16
12 Troubleshooting 17
13 Disposal 17

1 About this manual

This document describes the Lexvision LV7 Battery by Lexvision. It was compiled from the GDTF file Lexvision_LV7_145464.gdtf from the GDTF-Share library.

File revision: “Version 1”.

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 Lexvision; 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	3.5 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Mode 2CH	2	256	1, 3, 5, 7, ...
Mode 3CH HSV	3	170	1, 4, 7, 10, ...
Mode 4CH RGBW	4	128	1, 5, 9, 13, ...
Mode 5CH	5	102	1, 6, 11, 16, ...
Mode 9CH	9	56	1, 10, 19, 28, ...
Mode 12CH	12	42	1, 13, 25, 37, ...

No light? Check these channels

- Mode 5CH: CH 1 Dimmer above 0
- Mode 9CH: CH 1 Dimmer above 0; CH 2 Shutter at 0–9 “Open”; CH 7 Dimmer Speed above 0
- Mode 12CH: CH 1 Dimmer above 0; CH 2 Shutter at 0–9 “Open”; CH 7 Dimmer Speed 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

“Lexvision LV7 Battery LED PAR, RGBW 4-in-1 with built-in Li-Ion battery, Wireless DMX and RDM support”

5 Installation

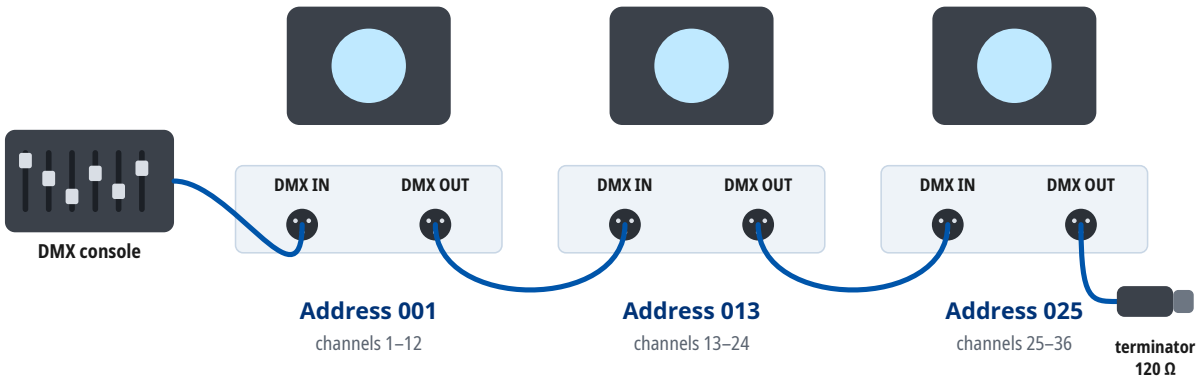
⚠ WARNING

- 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: 3.5 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 12CH: 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 “Mode 12CH”: 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 “Mode 12CH”, 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

	Mode 2CH 2 channels	Mode 3CH HSV 3 channels	Mode 4CH RGBW 4 channels	Mode 5CH 5 channels	Mode 9CH 9 channels	Mode 12CH 12 channels
Dimmer				1	1	1
Shutter / strobe					2	2
Color mixing			1–4	2–5	3–6	3–6
Effects / macros	1, 2					8, 9

Color wheel

1 Open
DMX 24–28

2 Red
DMX 28–32

3 Green
DMX 32–36

4 Blue
DMX 36–40

5 Yellow
DMX 40–44

6 Cyan
DMX 44–48

7 Magenta
DMX 48–52

8 White
DMX 52–56

9 Orange
DMX 56–60

10 Pink
DMX 60–64

11 Violet
DMX 64–68

12 Aquamarine
DMX 68–72

13 Sky Blue
DMX 72–76

14 Full White
DMX 76–80

15 Cool White
DMX 80–84

16 Warm White
DMX 84–88

17 White 3200K
DMX 88–92

18 White 2500K
DMX 92–96

19 Yellow 2
DMX 96–100

20 Straw
DMX 100–104

21 Orange 2
DMX 104–108

22 Light Rose
DMX 108–112

23 Dark Pink
DMX 112–116

24 Magenta 2
DMX 116–124

25 Med Blue Green
DMX 124–128

26 Blue 2
DMX 128–132

27 Bright Pink
DMX 132–136

28 Medium Blue
DMX 136–140

29 Golden Amber
DMX 140–144

30 Deep Golden Amber
DMX 144–148

31 Pale Lavender
DMX 148–152

32 Apricot
DMX 152–156

33 Med Blue Red
DMX 156–160

34 Chocolate
DMX 160–164

35 Just Blue
DMX 164–168

36 Surprise Pink
DMX 168–172

37 Scarlet
DMX 172–176

38 Surprise Peach
DMX 176–180

39 Light Peach
DMX 180–184

40 Warm White 2
DMX 184–188

41 Mauve
DMX 188–192

42 Bright Blue
DMX 192–196

43 Alice Blue
DMX 196–200

44 Rose Indigo
DMX 200–204

45 Urban Blue
DMX 204–208

46 Cool Blue
DMX 208–212

47 Light Salmon
DMX 212–216

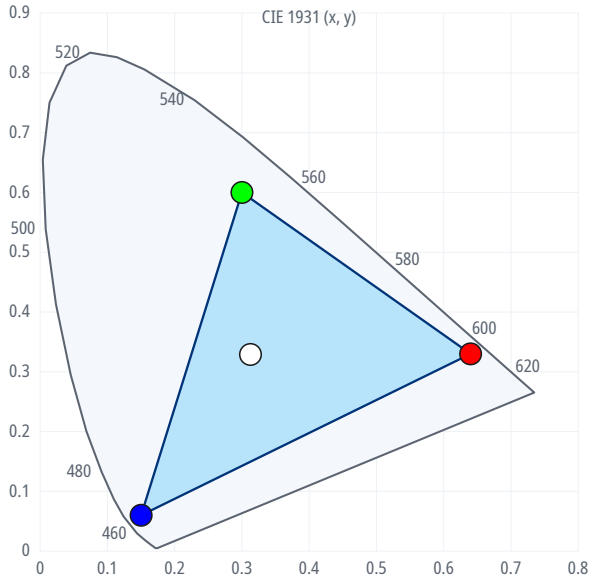
48 Mayan Sun
DMX 216–220

49 Cherry Rose
DMX 220–223

50 Skelton Exotic Sangria
DMX 223–255

51 Skelton Exotic Sangria

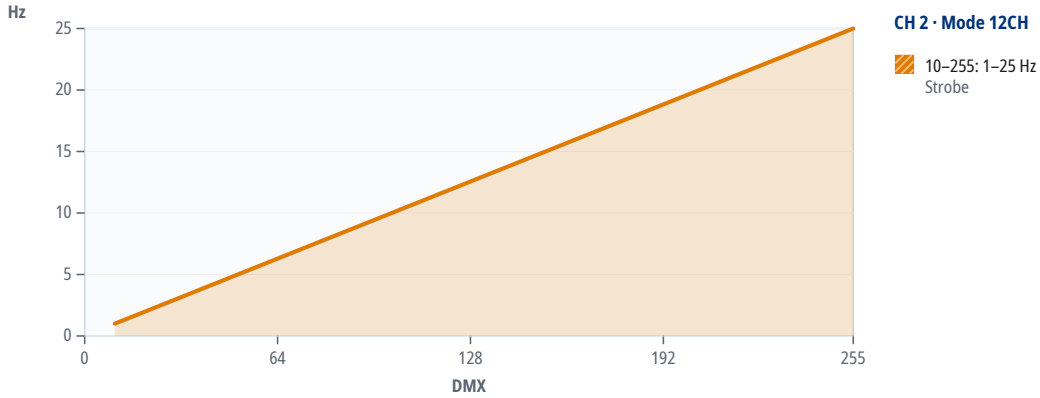
LED colors and the colors they mix



LED	x	y	nm
R	0.640	0.330	625
G	0.300	0.600	525
B	0.150	0.060	465
W	0.313	0.329	

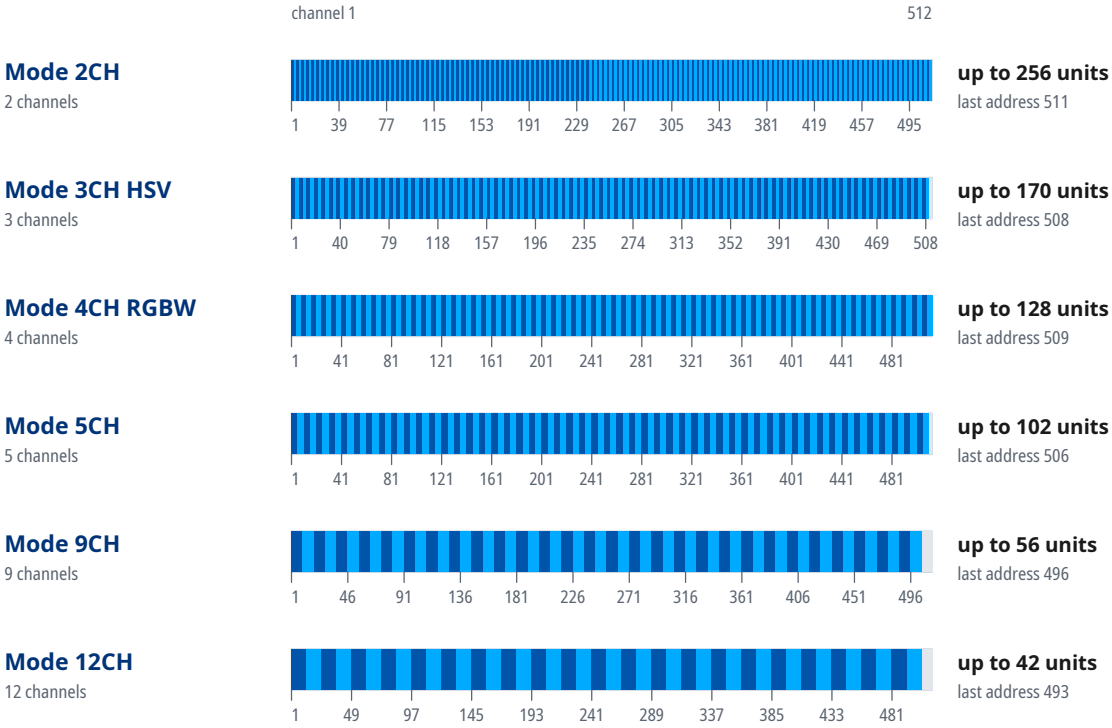
The shaded area holds the colors the LEDs can mix; the dots are the LED colors the GDTF file states.

Strobe rate



9 DMX channels

Units in one DMX universe

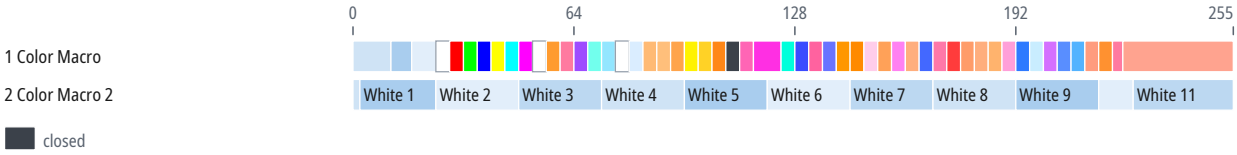


Start addresses of 20 units in the mode “Mode 12CH”

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 2CH

Channel functions at a glance

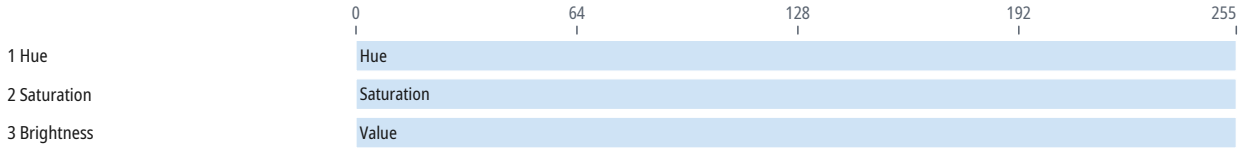


CH	Function	DMX	Description
1	Color Macro	0–10	No Color
		11–16	No Color 2
		17–23	No Color 3
		24–27	Red
		28–31	Green
		32–35	Blue
		36–39	Yellow
		40–43	Cyan
		44–47	Magenta
		48–51	White
		52–55	Orange
		56–59	Pink
		60–63	Violet
		64–67	Aquamarine
		68–71	Sky Blue
		72–75	Full White
		76–79	Cool White
		80–83	Warm White
		84–87	White 3200 K
		88–91	White 2500 K
		92–95	Yellow 2
		96–99	Straw
		100–103	Orange 2
		104–107	Light Rose
		108–111	Dark Pink
		112–115	Magenta 2
		116–123	Med Blue Green
		124–127	Blue 2
		128–131	Bright Pink
		132–135	Medium Blue
		136–139	Golden Amber
		140–143	Deep Golden Amber
		144–147	Pale Lavender
		148–151	Apricot

CH	Function	DMX	Description
1	Color Macro (continued)	152–155	Med Blue Red
		156–159	Chocolate
		160–163	Just Blue
		164–167	Surprise Pink
		168–171	Scarlet
		172–175	Surprise Peach
		176–179	Light Peach
		180–183	Warm White 2
		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	Color Macro 2	0–1	No White
		2–23	White 1
		24–47	White 2
		48–71	White 3
		72–95	White 4
		96–119	White 5
		120–143	White 6
		144–167	White 7
		168–191	White 8
		192–215	White 9
		216–225	White 10
		226–255	White 11

Mode 3CH HSV

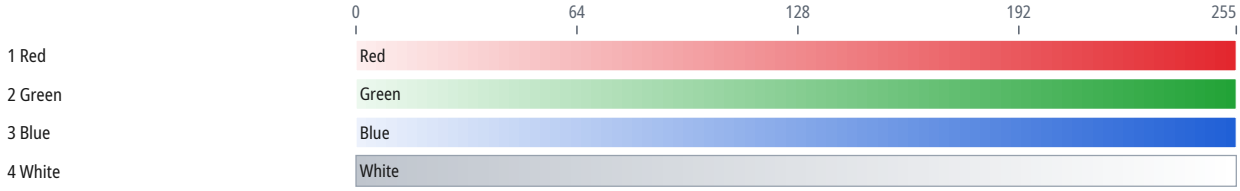
Channel functions at a glance



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

Mode 4CH RGBW

Channel functions at a glance

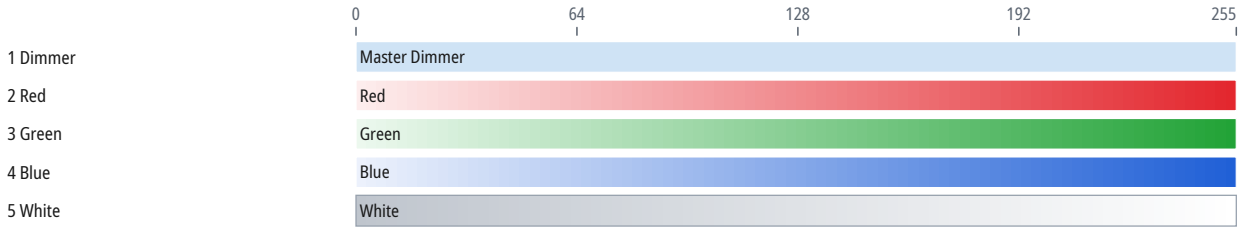


CH	Function	DMX	Description
1	Red	0–255	Red
2	Green	0–255	Green
3	Blue	0–255	Blue
4	White	0–255	White

Mode 5CH

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

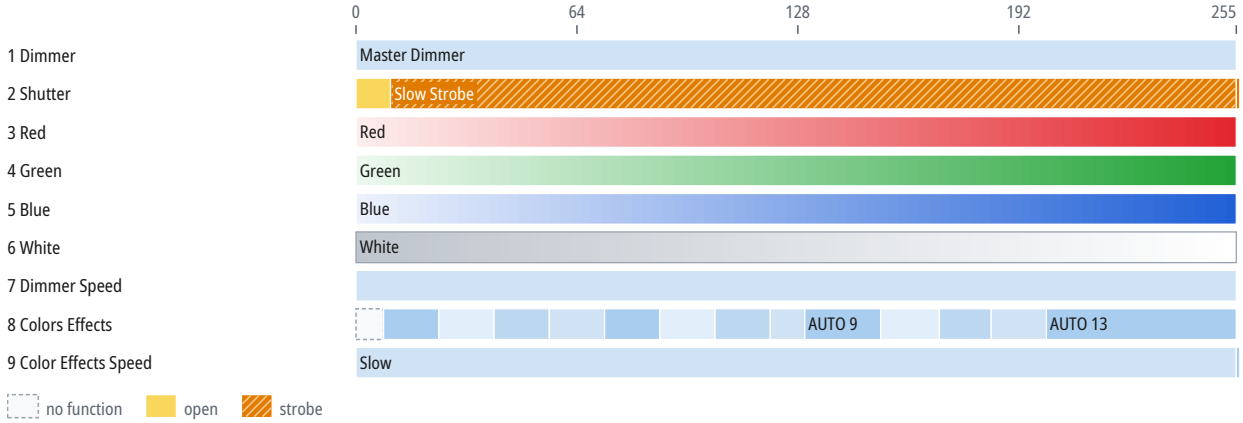


CH	Function	DMX	Description
1	Dimmer		Master Dimmer
		0–255	Master Dimmer
2	Red	0–255	Red
3	Green	0–255	Green
4	Blue	0–255	Blue
5	White	0–255	White

Mode 9CH

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Shutter at 0–9 “Open”; CH 7 Dimmer Speed above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance



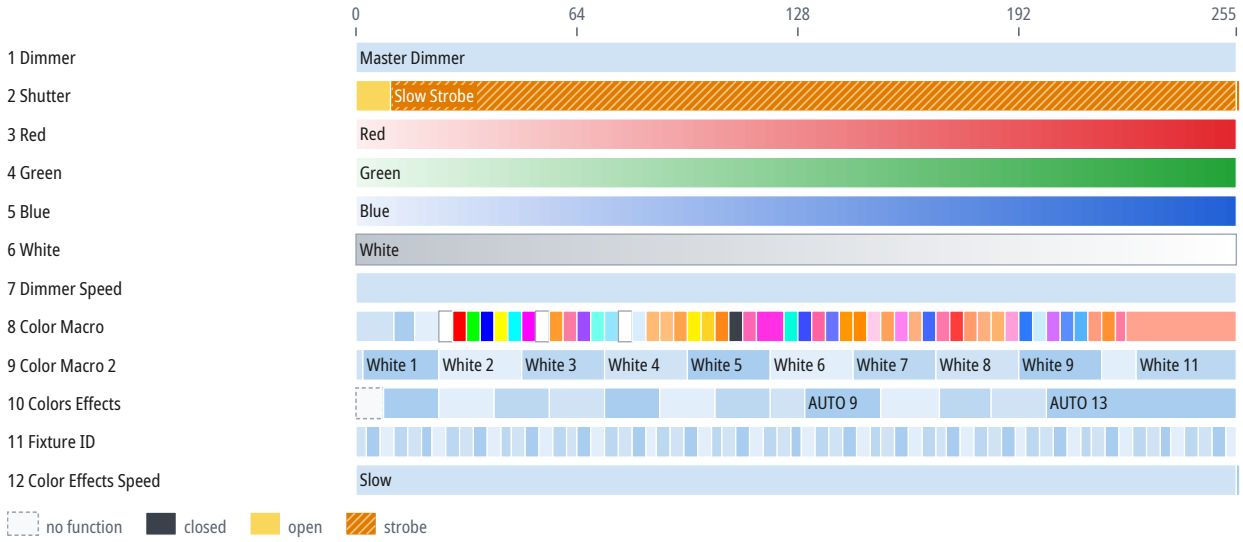
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 5CH” (p. 11)
2	Shutter	0–9	Open
		10–254	Slow Strobe
		255	Fast Strobe
3	Red	0–255	Red
4	Green	0–255	Green
5	Blue	0–255	Blue
6	White	0–255	White
7	Dimmer Speed		Dimmer Rate
		0–255	
8	Colors Effects	0–7	OFF
		8–23	AUTO 1
		24–39	AUTO 2
		40–55	AUTO 3
		56–71	AUTO 4
		72–87	AUTO 5
		88–103	AUTO 6
		104–119	AUTO 7
		120–129	AUTO 8
		130–151	AUTO 9
		152–168	AUTO 10
		169–183	AUTO 11
		184–199	AUTO 12
		200–255	AUTO 13

CH	Function	DMX	Description
9	Color Effects Speed		Auto Speed
		0–254	Slow
		255	Fast

Mode 12CH

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Shutter at 0–9 “Open”; CH 7 Dimmer Speed 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		Same as CH 1 in the mode “Mode 5CH” (p. 11)
2	Shutter		Same as CH 2 in the mode “Mode 9CH” (p. 12)
3	Red	0–255	Red
4	Green	0–255	Green
5	Blue	0–255	Blue
6	White	0–255	White
7	Dimmer Speed		Same as CH 7 in the mode “Mode 9CH” (p. 12)
8	Color Macro		Same as CH 1 in the mode “Mode 2CH” (p. 9)
9	Color Macro 2		Same as CH 2 in the mode “Mode 2CH” (p. 10)
10	Colors Effects		Same as CH 8 in the mode “Mode 9CH” (p. 12)
11	Fixture ID	0–2	No ID
		3–6	ID 01
		7–10	ID 02
		11–14	ID 03
		15–18	ID 04
		19–21	ID 05
		22–25	ID 06

CH	Function	DMX	Description
11	Fixture ID (continued)	26–29	ID 07
		30–33	ID 08
		34–37	ID 09
		38–41	ID 10
		42–44	ID 11
		45–48	ID 12
		49–52	ID 13
		53–56	ID 14
		57–60	ID 15
		61–63	ID 16
		64–67	ID 17
		68–71	ID 18
		72–75	ID 19
		76–79	ID 20
		80–83	ID 21
		84–86	ID 22
		87–90	ID 23
		91–94	ID 24
		95–98	ID 25
		99–102	ID 26
		103–105	ID 27
		106–109	ID 28
		110–113	ID 29
		114–117	ID 30
		118–121	ID 31
		122–125	ID 32
		126–128	ID 33
		129–132	ID 34
		133–136	ID 35
		137–140	ID 36
		141–144	ID 37
		145–148	ID 38
		149–151	ID 39
		152–155	ID 40
		156–159	ID 41
		160–163	ID 42
		164–167	ID 43
		168–170	ID 44
		171–174	ID 45
		175–178	ID 46
		179–182	ID 47

CH	Function	DMX	Description
11	Fixture ID (continued)	183–186	ID 48
		187–190	ID 49
		191–193	ID 50
		194–197	ID 51
		198–201	ID 52
		202–205	ID 53
		206–209	ID 54
		210–212	ID 55
		213–216	ID 56
		217–220	ID 57
		221–224	ID 58
		225–228	ID 59
		229–232	ID 60
		233–235	ID 61
		236–239	ID 62
		240–243	ID 63
		244–247	ID 64
		248–251	ID 65
		252–255	ID 66
12	Color Effects Speed		Same as CH 9 in the mode “Mode 9CH” (p. 13)

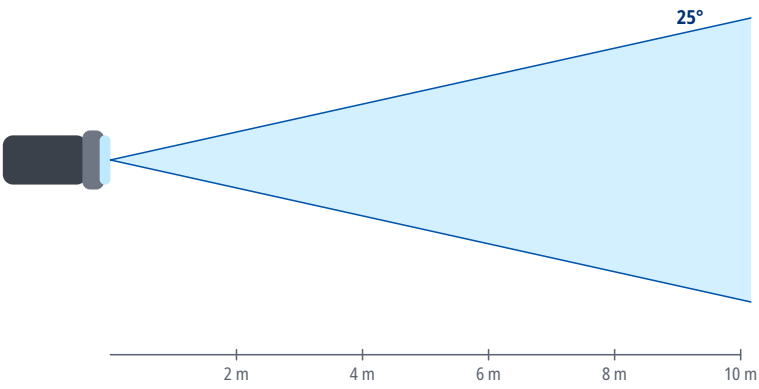
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	80 W
Luminous flux	2,200 lm
Color temperature	6,500 K
Color rendering index (CRI)	80
Optics	
Beam angle	25°
Dimensions and construction	
Weight	3.5 kg
Operating environment	
Operating temperature	0 to 40 °C

Speeds and ranges

Parameter	Value
Strobe frequency	1–25 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.