DMX REFERENCE

PAR12H

Event Lighting

Manufacturer	Event Lighting
GDTF file	Event_Lighting_PAR12H_126449.gdtf
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1 About this manual

This document describes the PAR12H by Event Lighting. It was compiled from the GDTF file Event_Lighting_PAR12H_126449.gdtf from the GDTF-Share library.

File revision: “Rev 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 Event Lighting; 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	3.2 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
1ch Mode	1	512	1, 2, 3, 4, ...
2ch Mode	2	256	1, 3, 5, 7, ...
3ch Mode	3	170	1, 4, 7, 10, ...
4ch-W Mode	4	128	1, 5, 9, 13, ...
4ch-A Mode	4	128	1, 5, 9, 13, ...
6ch Mode	6	85	1, 7, 13, 19, ...
8ch Mode	8	64	1, 9, 17, 25, ...
12ch Mode	12	42	1, 13, 25, 37, ...
14ch Mode	14	36	1, 15, 29, 43, ...


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.

⚠ 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 Event Lighting PAR12H is a durable and versatile LED Pro Parcan. With 12 x 12W RGBWA+UV LEDs, it delivers stunning colour combinations to suit any space. Enjoy customisable beam angles with options for 30˚, 40˚, 25˚ and 15˚, providing the perfect spread for any application. Experience 3,150 lux output at 2.0 meters, ensuring vibrant illumination in any setting. Boasting a robust lifespan of 50,000 hours, this fixture is built to last.”

“With 5 x 16-bit Dimming Curves and adjustable strobe settings ranging from 1 to 30Hz, you have full control over your lighting effects. Its flexible operational modes include DMX, auto run, sound active, and more, all easily navigated through the intuitive 4-button LCD control panel. Plus, with a sturdy die-cast aluminium housing and fanless cooling design, durability and reliability are guaranteed.”

“The PAR12H comes with True1 in/out, 5 pin DMX in/out and includes an omega bracket for quick and easy installation.”

5 Installation

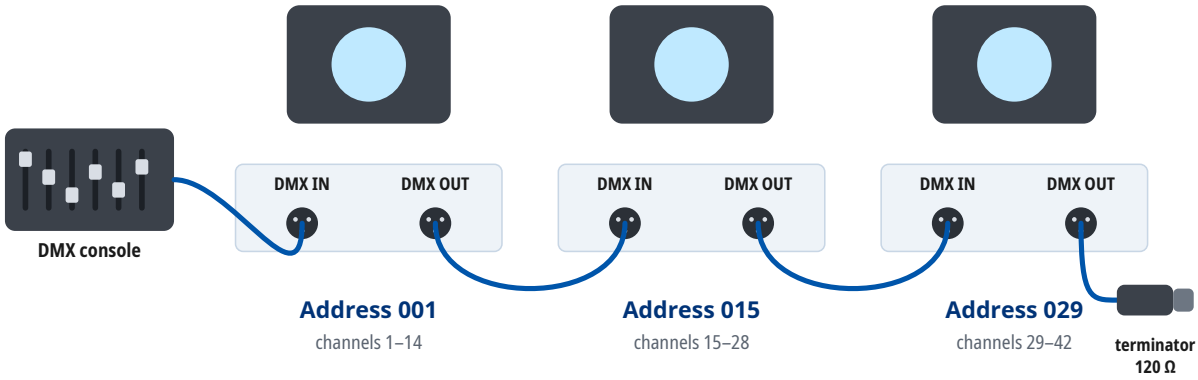
⚠ **WARNING**

- 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: 3.2 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 14ch Mode: every unit occupies 14 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

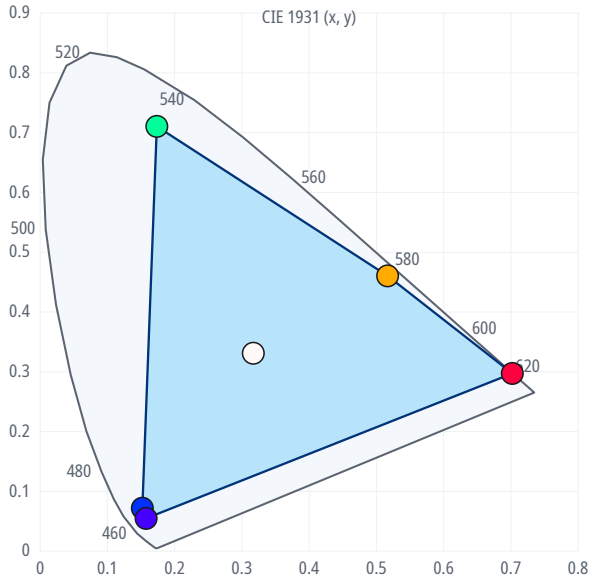
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “14ch Mode”: 14.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied 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 “14ch Mode”, you can use, for example, the start addresses 1, 15, 29, 43.
- 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

	1ch Mode 1 channel	2ch Mode 2 channels	3ch Mode 3 channels	4ch-W Mode 4 channels	4ch-A Mode 4 channels	6ch Mode 6 channels	8ch Mode 8 channels	12ch Mode 12 channels
Dimmer	1	2					7	7
Shutter / strobe							8	8
Color mixing			1–3	1–4	1–4	1–6	1–6	1–6
Color temperature		1						
Effects / macros								10, 11

LED colors and the colors they mix

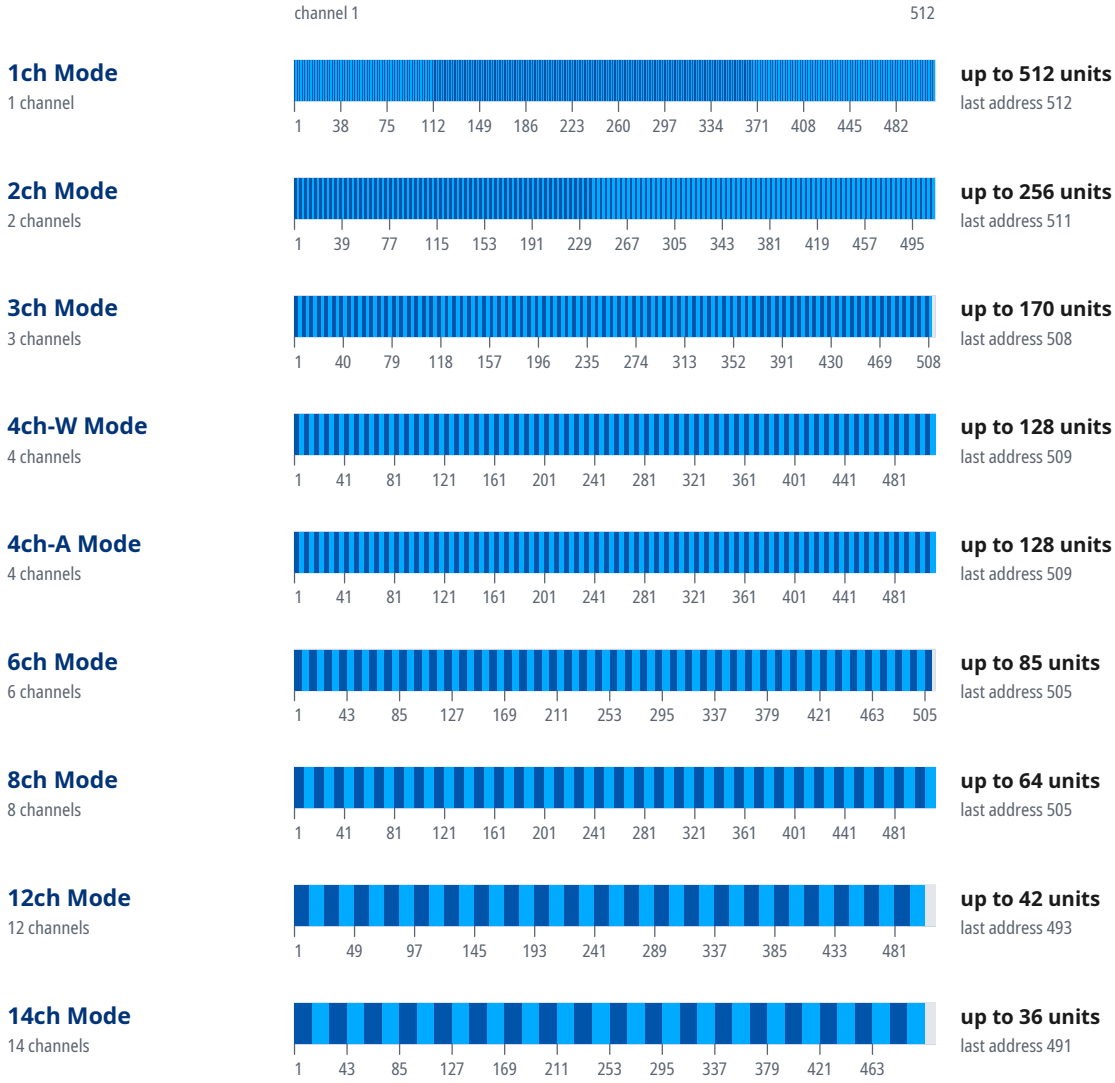


LED	x	y	nm
Red	0.702	0.297	626
Green	0.173	0.711	527
Blue	0.152	0.072	452
White	0.317	0.331	
Amber	0.517	0.461	
UV	0.158	0.055	

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 “14ch Mode”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	71	11	141	16	211
2	15	7	85	12	155	17	225
3	29	8	99	13	169	18	239
4	43	9	113	14	183	19	253
5	57	10	127	15	197	20	267

Mode 1ch Mode

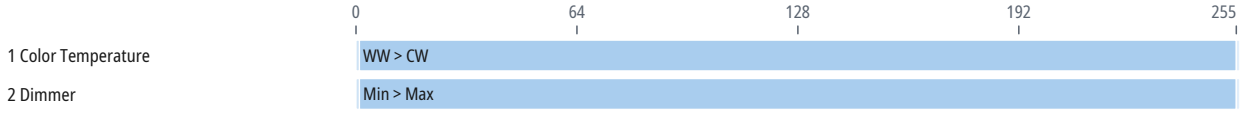
Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0	Min
		1–254	Min > Max
		255	Max

Mode 2ch Mode

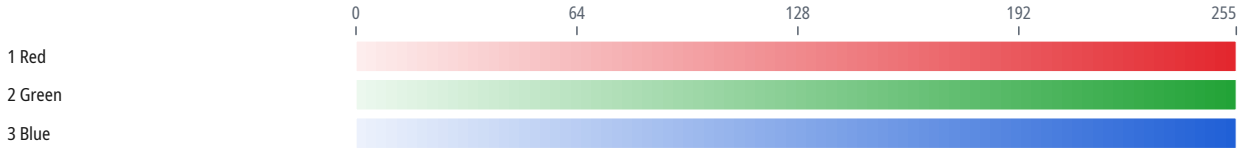
Channel functions at a glance



CH	Function	DMX	Description
1	Color Temperature	0	WW
		1–254	WW > CW
		255	CW
2	Dimmer		Same as CH 1 in the mode “1ch Mode” (p. 9)

Mode 3ch Mode

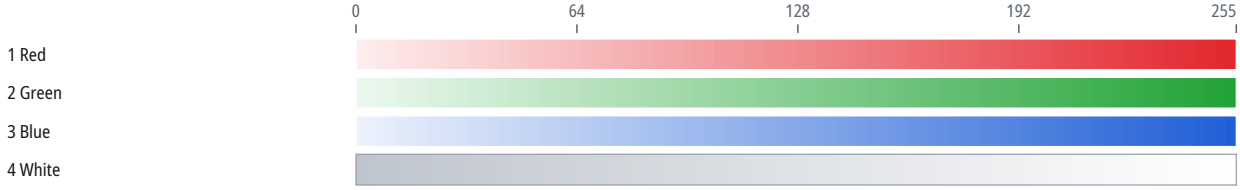
Channel functions at a glance



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

Mode 4ch-W Mode

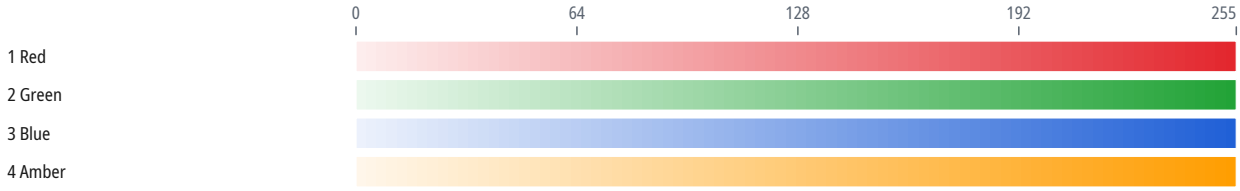
Channel functions at a glance



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

Mode 4ch-A Mode

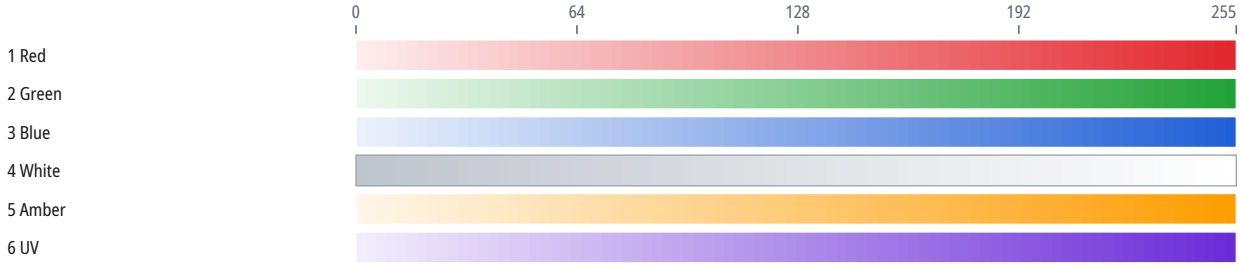
Channel functions at a glance



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

Mode 6ch Mode

Channel functions at a glance

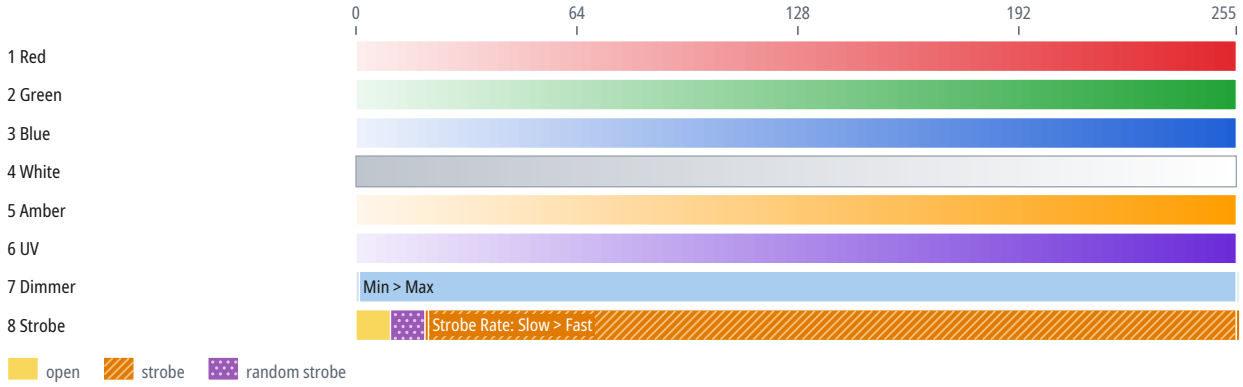


CH	Function	DMX	Description
1	Red	0–255	
2	Green	0–255	
3	Blue	0–255	
4	White	0–255	
5	Amber	0–255	
6	UV	0–255	

Mode 8ch Mode

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

Channel functions at a glance

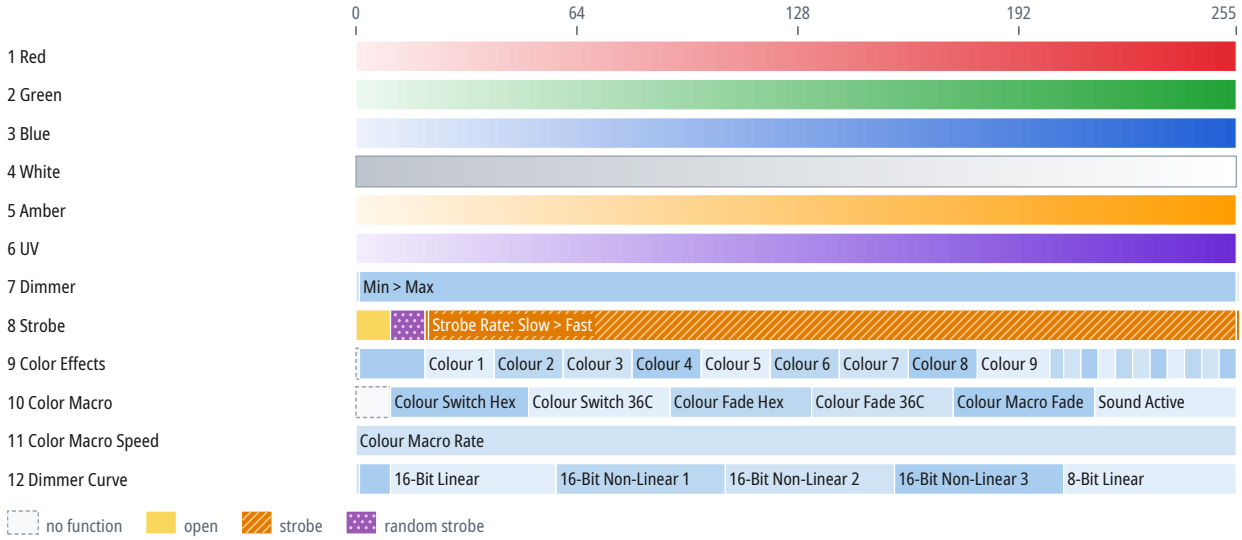


CH	Function	DMX	Description
1	Red	0–255	
2	Green	0–255	
3	Blue	0–255	
4	White	0–255	
5	Amber	0–255	
6	UV	0–255	
7	Dimmer		Same as CH 1 in the mode “1ch Mode” (p. 9)
8	Strobe	0–9	No Function
		10–19	Sound Active
		20	Strobe Rate: Slow
		21–254	Strobe Rate: Slow > Fast
		255	Strobe Rate: Fast

Mode 12ch Mode

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

Channel functions at a glance



CH	Function	DMX	Description
1	Red	0–255	
2	Green	0–255	
3	Blue	0–255	
4	White	0–255	
5	Amber	0–255	
6	UV	0–255	
7	Dimmer		Same as CH 1 in the mode “1ch Mode” (p. 9)
8	Strobe		Same as CH 8 in the mode “8ch Mode” (p. 11)
9	Color Effects		Colour Effect
		0	No Function
		1–19	No Function … Colour 1
		20–39	Colour 1
		40–59	Colour 2
		60–79	Colour 3
		80–99	Colour 4
		100–119	Colour 5
		120–139	Colour 6
		140–159	Colour 7
		160–179	Colour 8
		180–200	Colour 9
		201–204	Colour Temperature 1
		205–209	Colour Temperature 2
		210–214	Colour Temperature 3

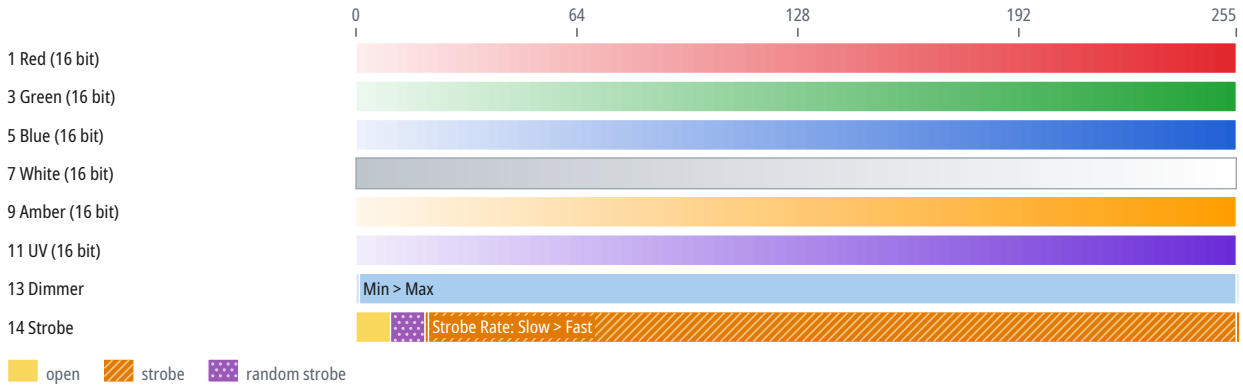
CH	Function	DMX	Description
9	Color Effects (continued)	215–219	Colour Temperature 4
		220–224	Colour Temperature 5
		225–229	Colour Temperature 6
		230–234	Colour Temperature 7
		235–239	Colour Temperature 8
		240–244	Colour Temperature 9
		245–249	Colour Temperature 10
		250–255	Colour Temperature 11
10	Color Macro		Colour Macro
		0–9	No Function
		10–49	Colour Switch Hex
		50–90	Colour Switch 36C
		91–131	Colour Fade Hex
		132–172	Colour Fade 36C
		173–213	Colour Macro Fade
		214–255	Sound Active
11	Color Macro Speed		Colour Macro Rate
		0–255	Colour Macro Rate
12	Dimmer Curve	0	As Per Menu
		1–9	As Per Menu … 16-Bit Linear
		10–57	16-Bit Linear
		58–106	16-Bit Non-Linear 1
		107–155	16-Bit Non-Linear 2
		156–204	16-Bit Non-Linear 3
		205–255	8-Bit Linear

Mode 14ch Mode

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 14 Strobe at 0–9 “No Function”.

Channel functions at a glance

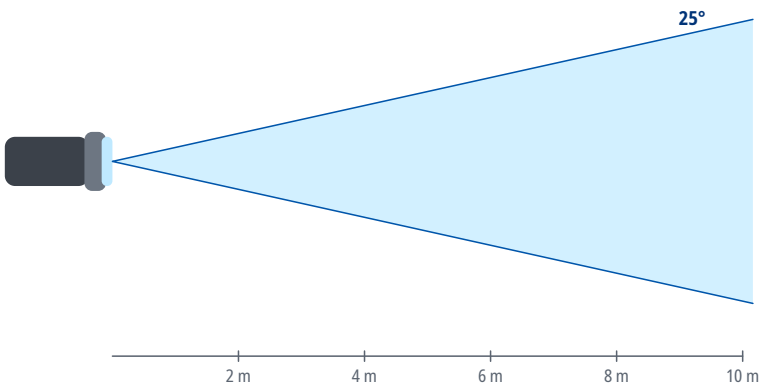


CH	Function	DMX	Description
1	Red	0–255	
2	Red Fine	0–255	Fine adjustment of CH 1
3	Green	0–255	
4	Green Fine	0–255	Fine adjustment of CH 3
5	Blue	0–255	
6	Blue Fine	0–255	Fine adjustment of CH 5
7	White	0–255	
8	White Fine	0–255	Fine adjustment of CH 7
9	Amber	0–255	
10	Amber Fine	0–255	Fine adjustment of CH 9
11	UV	0–255	
12	UV Fine	0–255	Fine adjustment of CH 11
13	Dimmer		Same as CH 1 in the mode “1ch Mode” (p. 9)
14	Strobe		Same as CH 8 in the mode “8ch Mode” (p. 11)

10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	30 W
Luminous flux	1,000 lm
Color temperature	6,000 K
Color rendering index (CRI)	95
Optics	
Beam angle	25°
Dimensions and construction	
Weight	3.2 kg
Operating environment	
Operating temperature	0 to 40 °C

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.