DMX REFERENCE

Dalis 860

Dalis 860 cyclight

Robert Juliat



Manufacturer	Robert Juliat
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1 About this manual

This document describes the Dalis 860 cyclight by Robert Juliat. It was compiled from the GDTF file Robert_Juliat_Dalis_860_23719.gdtf from the GDTF-Share library.

File revision: “1.00”.

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 Robert Juliat; 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	285 W
Weight	11 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Mode1: Full 4 groups 16bits	70	7	1, 71, 141, 211, ...
Mode2: Full 1 group 16bits	22	23	1, 23, 45, 67, ...
Mode3: Full 1 group 8bits	13	39	1, 14, 27, 40, ...
Mode4: Preset mode 16bits	8	64	1, 9, 17, 25, ...
Mode5: Preset mode 8bits	7	73	1, 8, 15, 22, ...
Mode6: 4 groups individual 16b	72	7	1, 73, 145, 217, ...

No light? Check these channels

- Mode1: Full 4 groups 16bits: CH 1 Dimmer above 0; CH 67 Strobe Duration at 1–255 “ON”
- Mode2: Full 1 group 16bits: CH 1 Dimmer above 0; CH 19 Strobe Duration at 1–255 “ON”
- Mode3: Full 1 group 8bits: CH 1 Dimmer above 0; CH 10 Strobe Duration at 1–255 “ON”
- Mode4: Preset mode 16bits: CH 1 Dimmer above 0; CH 5 Strobe Duration at 1–255 “ON”
- Mode5: Preset mode 8bits: CH 1 Dimmer above 0; CH 4 Strobe Duration at 1–255 “ON”
- Mode6: 4 groups individual 16b: CH 1 Dimmer 1 above 0; CH 19 Dimmer 2 above 0; CH 37 Dimmer 3 above 0; CH 55 Dimmer 4 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: 90–265 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.

⚠ **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

“8 colour LED 300W Cyclight - 860 Dalis Dalis is an asymmetrical 300W LED cyclorama / wall wash luminaire designed to deliver powerful, smooth coverage and a huge variety of pastel and saturated colours. Dalis cyclight offers silent operation which is perfect for sound sensitive applications like opera houses and studios, and all theatrical, TV and entertainment applications.”

5 Installation

⚠ **WARNING**

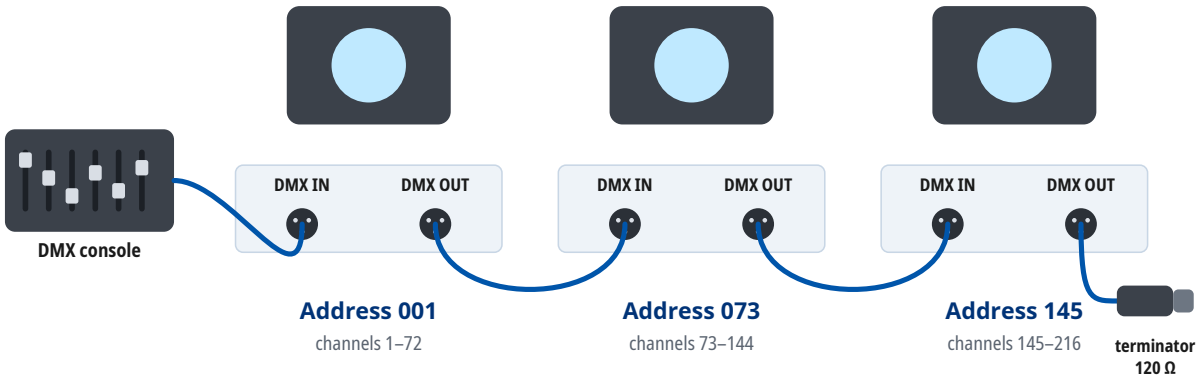
- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 11 kg.
- 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



Mode6: 4 groups individual 16b: every unit occupies 72 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 “Mode6: 4 groups individual 16b”: 72.
- 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 “Mode6: 4 groups individual 16b”, you can use, for example, the start addresses 1, 73, 145, 217.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.
- The device supports RDM (Remote Device Management), two-way communication with the controller over the DMX line.

8 Functions at a glance

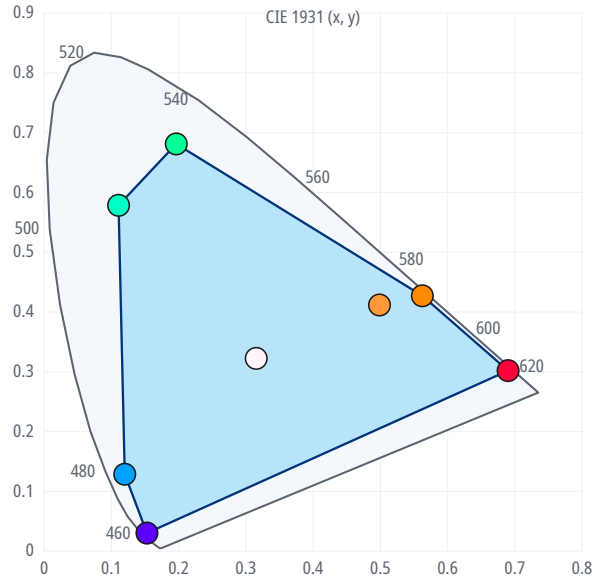
Functions in each DMX mode

	Mode1: Full 4 groups 16bits 70 channels	Mode2: Full 1 group 16bits 22 channels	Mode3: Full 1 group 8bits 13 channels	Mode4: Preset mode 16bits 8 channels	Mode5: Preset mode 8bits 7 channels	Mode6: 4 groups individual 16b 72 channels
Dimmer	**1**	**1**	**1**	**1**	**1**	**4× (1–55)**
Dimmer resolution	16 bit	16 bit	8 bit	16 bit	8 bit	16 bit
Shutter / strobe	**67, 68**	**19, 20**	**10, 11**	**5, 6**	**4, 5**	
Color mixing	**32× (3–65)**	**8× (3–17)**	**2–9**			**32 channels (3–71)**
Color temperature				**3, 4**	**2, 3**	
Color wheel				**4**	**3**	

Color wheel

1. 1/4 CTB (203)
2. 1/2 CTB (202)
3. Full CTB (201)
4. Double CTB (200)
5. Full CTO (204)
6. 1/2 CTO (205)
7. Fluorescent 4300K (242)
8. Fluorescent 5700K (241)
9. Dark steel blue (161)
10. Slate blue (161)
11. Daylight blue (165)
12. Lighter blue (353)
13. Sky blue (068)
14. Just blue (079)
15. Virgin blue (723)
16. Dark blue (119)
17. Special medium blue (363)
18. Fern green (122)
19. Dark green (124)
20. Pale green (138)
21. Golden amber (134)
22. Apricot (147)
23. Yellow (101)
24. Orange (105)
25. Follies pink (328)
26. King fals lavender (706)
27. Light red (182)

LED colors and the colors they mix



LED	x	y	nm
Red	0.690	0.302	624
Green	0.196	0.681	529
Blue	0.120	0.129	478
Royal Blue	0.153	0.030	456
Cyan	0.111	0.579	507
Amber	0.562	0.427	589
Warm White	0.499	0.412	
Cool White	0.315	0.323	

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

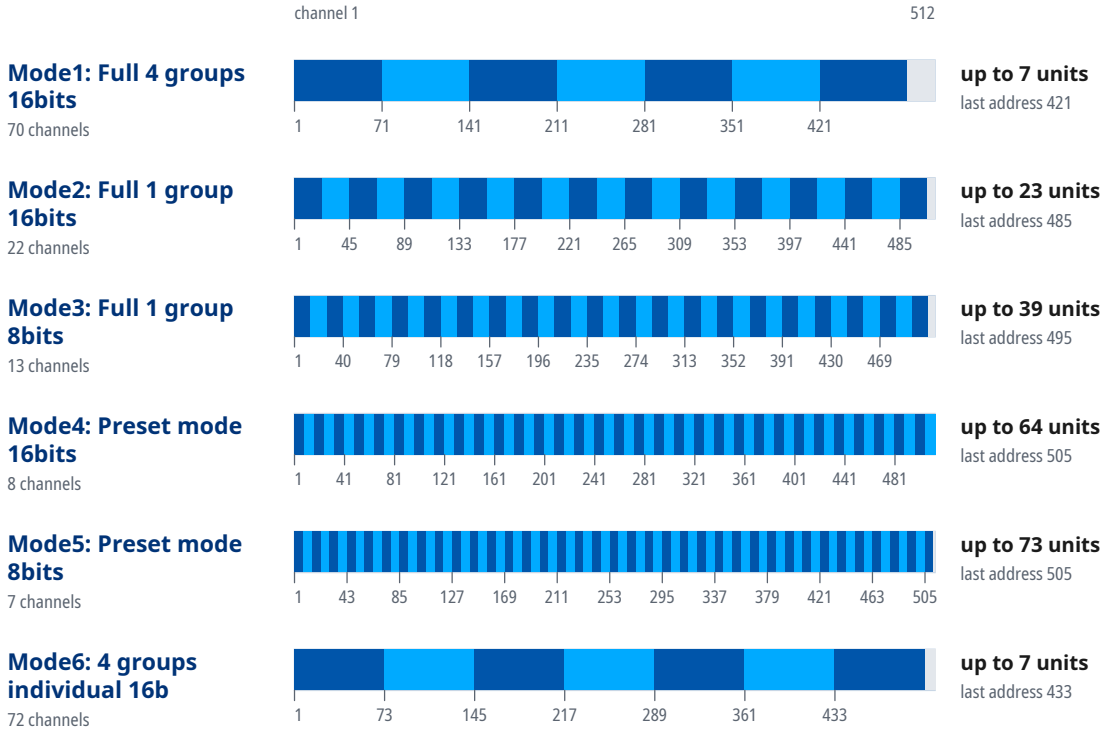
Cells (pixels)



4 cells where the GDTF file places them (seen from above), numbered by their first DMX channel (CH) in the mode “Mode1: Full 4 groups 16bits”.

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Mode6: 4 groups individual 16b”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	361	11	U2 · 217	16	U3 · 73
2	73	7	433	12	U2 · 289	17	U3 · 145
3	145	8	U2 · 1	13	U2 · 361	18	U3 · 217
4	217	9	U2 · 73	14	U2 · 433	19	U3 · 289
5	289	10	U2 · 145	15	U3 · 1	20	U3 · 361

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.

Mode1: Full 4 groups 16bits

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 1 Dimmer above 0; CH 67 Strobe Duration at 1–255 “ON”. The GDTF file gives these values for a console's Highlight function: CH 3 Red 1 255, CH 5 Green 1 255, CH 7 Blue 1 255, CH 9 UV 1 255, CH 19 Red 2 255, CH 21 Green 2 255, CH 23 Blue 2 255, CH 25 UV 2 255, CH 35 Red 3 255, CH 37 Green 3 255, CH 39 Blue 3 255, CH 41 UV 3 255, CH 51 Red 4 255, CH 53 Green 4 255, CH 55 Blue 4 255, CH 57 UV 4 255.

CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Red 1	0–255	
4	Red 1 Fine	0–255	Fine adjustment of CH 3

CH	Function	DMX	Description
5	Green 1	0–255	
6	Green 1 Fine	0–255	Fine adjustment of CH 5
7	Blue 1	0–255	
8	Blue 1 Fine	0–255	Fine adjustment of CH 7
9	UV 1	0–255	
10	UV 1 Fine	0–255	Fine adjustment of CH 9
11	Green Cyan 1	0–255	
12	Green Cyan 1 Fine	0–255	Fine adjustment of CH 11
13	Amber 1	0–255	
14	Amber 1 Fine	0–255	Fine adjustment of CH 13
15	Cool White 1	0–255	
16	Cool White 1 Fine	0–255	Fine adjustment of CH 15
17	Warm White 1	0–255	
18	Warm White 1 Fine	0–255	Fine adjustment of CH 17
19	Red 2	0–255	
20	Red 2 Fine	0–255	Fine adjustment of CH 19
21	Green 2	0–255	
22	Green 2 Fine	0–255	Fine adjustment of CH 21
23	Blue 2	0–255	
24	Blue 2 Fine	0–255	Fine adjustment of CH 23
25	UV 2	0–255	
26	UV 2 Fine	0–255	Fine adjustment of CH 25
27	Green Cyan 2	0–255	
28	Green Cyan 2 Fine	0–255	Fine adjustment of CH 27
29	Amber 2	0–255	
30	Amber 2 Fine	0–255	Fine adjustment of CH 29
31	Cool White 2	0–255	
32	Cool White 2 Fine	0–255	Fine adjustment of CH 31
33	Warm White 2	0–255	
34	Warm White 2 Fine	0–255	Fine adjustment of CH 33
35	Red 3	0–255	
36	Red 3 Fine	0–255	Fine adjustment of CH 35
37	Green 3	0–255	
38	Green 3 Fine	0–255	Fine adjustment of CH 37
39	Blue 3	0–255	
40	Blue 3 Fine	0–255	Fine adjustment of CH 39
41	UV 3	0–255	
42	UV 3 Fine	0–255	Fine adjustment of CH 41
43	Green Cyan 3	0–255	
44	Green Cyan 3 Fine	0–255	Fine adjustment of CH 43
45	Amber 3	0–255	
46	Amber 3 Fine	0–255	Fine adjustment of CH 45

CH	Function	DMX	Description
47	Cool White 3	0–255	
48	Cool White 3 Fine	0–255	Fine adjustment of CH 47
49	Warm White 3	0–255	
50	Warm White 3 Fine	0–255	Fine adjustment of CH 49
51	Red 4	0–255	
52	Red 4 Fine	0–255	Fine adjustment of CH 51
53	Green 4	0–255	
54	Green 4 Fine	0–255	Fine adjustment of CH 53
55	Blue 4	0–255	
56	Blue 4 Fine	0–255	Fine adjustment of CH 55
57	UV 4	0–255	
58	UV 4 Fine	0–255	Fine adjustment of CH 57
59	Green Cyan 4	0–255	
60	Green Cyan 4 Fine	0–255	Fine adjustment of CH 59
61	Amber 4	0–255	
62	Amber 4 Fine	0–255	Fine adjustment of CH 61
63	Cool White 4	0–255	
64	Cool White 4 Fine	0–255	Fine adjustment of CH 63
65	Warm White 4	0–255	
66	Warm White 4 Fine	0–255	Fine adjustment of CH 65
67	Strobe Duration	0	OFF
		1–255	ON (1–85 s)
68	Strobe Speed		When CH 67 is 1–255:
		0–255	5.8–11.5 Hz
69	Dimmer Speed		Response Time
		0–250	Dimmer timing
		251–255	OFF
70	Control		RDM Control
		0	RDM ON
		1–255	RDM OFF

Mode2: Full 1 group 16bits

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 1 Dimmer above 0; CH 19 Strobe Duration at 1–255 “ON”. The GDTF file gives these values for a console's Highlight function: CH 3 Red 255, CH 5 Green 255, CH 7 Blue 255, CH 9 UV 255.

CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Red	0–255	
4	Red Fine	0–255	Fine adjustment of CH 3
5	Green	0–255	

CH	Function	DMX	Description
6	Green Fine	0–255	Fine adjustment of CH 5
7	Blue	0–255	
8	Blue Fine	0–255	Fine adjustment of CH 7
9	UV	0–255	
10	UV Fine	0–255	Fine adjustment of CH 9
11	Green Cyan	0–255	
12	Green Cyan Fine	0–255	Fine adjustment of CH 11
13	Amber	0–255	
14	Amber Fine	0–255	Fine adjustment of CH 13
15	Cool White	0–255	
16	Cool White Fine	0–255	Fine adjustment of CH 15
17	Warm White	0–255	
18	Warm White Fine	0–255	Fine adjustment of CH 17
19	Strobe Duration		Same as CH 67 in the mode “Mode1: Full 4 groups 16bits” (p. 11)
20	Strobe Speed		When CH 19 is 1–255:
		0–255	5.8–11.5 Hz
21	Dimmer Speed		Same as CH 69 in the mode “Mode1: Full 4 groups 16bits” (p. 11)
22	Control		Same as CH 70 in the mode “Mode1: Full 4 groups 16bits” (p. 11)

Mode3: Full 1 group 8bits

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 10 Strobe Duration at 1–255 “ON”. The GDTF file gives these values for a console's Highlight function: CH 2 Red 255, CH 3 Green 255, CH 4 Blue 255, CH 5 UV 255.

CH	Function	DMX	Description
1	Dimmer	0–255	
2	Red	0–255	
3	Green	0–255	
4	Blue	0–255	
5	UV	0–255	
6	Green Cyan	0–255	
7	Amber	0–255	
8	Cool White	0–255	
9	Warm White	0–255	
10	Strobe Duration		Same as CH 67 in the mode “Mode1: Full 4 groups 16bits” (p. 11)
11	Strobe Speed		When CH 10 is 1–255:
		0–255	5.8–11.5 Hz
12	Dimmer Speed		Same as CH 69 in the mode “Mode1: Full 4 groups 16bits” (p. 11)
13	Control		Same as CH 70 in the mode “Mode1: Full 4 groups 16bits” (p. 11)

Mode4: Preset mode 16bits

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 1 Dimmer above 0; CH 5 Strobe Duration at 1–255 “ON”.

CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		When CH 4 is 250–255:
		0–255	2200–6500 K
4	Colors	0–4	No function
		5–9	1/4 CTB (203)
		10–14	1/2 CTB (202)
		15–19	Full CTB (201)
		20–24	Double CTB (200)
		25–29	Full CTO (204)
		30–34	1/2 CTO (205)
		35–39	Fluorescent 4300K (242)
		40–44	Fluorescent 5700K (241)
		45–49	Dark steel blue (161)
		50–54	Slate blue (161)
		55–59	Daylight blue (165)
		60–64	Lighter blue (353)
		65–69	Sky blue (068)
		70–74	Just blue (079)
		75–79	Virgin blue (723)
		80–84	Dark blue (119)
		85–89	Special medium blue (363)
		90–94	Fern green (122)
		95–99	Dark green (124)
		100–104	Pale green (138)
		105–109	Golden amber (134)
		110–114	Apricot (147)
		115–119	Yellow (101)
		120–124	Orange (105)
		125–129	Follies pink (328)
		130–134	King fals lavender (706)
		135–139	Light red (182)
		140–199	No function
		200–204	6500 Kelvin
		205–209	6000 Kelvin
		210–214	5600 Kelvin
		215–219	4200 Kelvin
		220–224	4000 Kelvin

CH	Function	DMX	Description
4	Colors (continued)	225–229	3500 Kelvin
		230–234	3200 Kelvin
		235–239	3000 Kelvin
		240–244	2700 Kelvin
		245–249	2200 Kelvin
		250–255	CTC
5	Strobe Duration		Same as CH 67 in the mode “Mode1: Full 4 groups 16bits” (p. 11)
6	Strobe Speed		When CH 5 is 1–255:
		0–255	5.8–11.5 Hz
7	Dimmer Speed		Same as CH 69 in the mode “Mode1: Full 4 groups 16bits” (p. 11)
8	Control		Same as CH 70 in the mode “Mode1: Full 4 groups 16bits” (p. 11)

Mode5: Preset mode 8bits

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 4 Strobe Duration at 1–255 “ON”.

CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature		When CH 3 is 250–255:
		0–255	2200–6500 K
3	Colors		Same as CH 4 in the mode “Mode4: Preset mode 16bits” (p. 13)
4	Strobe Duration		Same as CH 67 in the mode “Mode1: Full 4 groups 16bits” (p. 11)
5	Strobe Speed		When CH 4 is 1–255:
		0–255	5.8–11.5 Hz
6	Dimmer Speed		Same as CH 69 in the mode “Mode1: Full 4 groups 16bits” (p. 11)
7	Control		Same as CH 70 in the mode “Mode1: Full 4 groups 16bits” (p. 11)

Mode6: 4 groups individual 16b

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 1 Dimmer 1 above 0; CH 19 Dimmer 2 above 0; CH 37 Dimmer 3 above 0; CH 55 Dimmer 4 above 0. The GDTF file gives these values for a console's Highlight function: CH 3 Red 1 255, CH 5 Green 1 255, CH 7 Blue 1 255, CH 9 UV 1 255, CH 11 Green Cyan 1 255, CH 13 Amber 1 255, CH 15 Cool White 1 255, CH 17 Warm White 1 255, CH 21 Red 2 255, CH 23 Green 2 255, CH 25 Blue 2 255, CH 27 UV 2 255, CH 29 Green Cyan 2 255, CH 31 Amber 2 255, CH 33 Cool White 2 255, CH 35 Warm White 2 255, CH 39 Red 3 255, CH 41 Green 3 255, CH 43 Blue 3 255, CH 45 UV 3 255, CH 47 Green Cyan 3 255, CH 49 Amber 3 255, CH 51 Cool White 3 255, CH 53 Warm White 3 255, CH 57 Red 4 255, CH 59 Green 4 255, CH 61 Blue 4 255, CH 63 UV 4 255, CH 65 Green Cyan 4 255, CH 67 Amber 4 255, CH 69 Cool White 4 255, CH 71 Warm White 4 255.

CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Red 1	0–255	
4	Red 1 Fine	0–255	Fine adjustment of CH 3
5	Green 1	0–255	
6	Green 1 Fine	0–255	Fine adjustment of CH 5
7	Blue 1	0–255	
8	Blue 1 Fine	0–255	Fine adjustment of CH 7
9	UV 1	0–255	
10	UV 1 Fine	0–255	Fine adjustment of CH 9
11	Green Cyan 1	0–255	
12	Green Cyan 1 Fine	0–255	Fine adjustment of CH 11
13	Amber 1	0–255	
14	Amber 1 Fine	0–255	Fine adjustment of CH 13
15	Cool White 1	0–255	
16	Cool White 1 Fine	0–255	Fine adjustment of CH 15
17	Warm White 1	0–255	
18	Warm White 1 Fine	0–255	Fine adjustment of CH 17
19	Dimmer 2	0–255	
20	Dimmer 2 Fine	0–255	Fine adjustment of CH 19
21	Red 2	0–255	
22	Red 2 Fine	0–255	Fine adjustment of CH 21
23	Green 2	0–255	
24	Green 2 Fine	0–255	Fine adjustment of CH 23
25	Blue 2	0–255	
26	Blue 2 Fine	0–255	Fine adjustment of CH 25
27	UV 2	0–255	
28	UV 2 Fine	0–255	Fine adjustment of CH 27
29	Green Cyan 2	0–255	
30	Green Cyan 2 Fine	0–255	Fine adjustment of CH 29
31	Amber 2	0–255	

CH	Function	DMX	Description
32	Amber 2 Fine	0–255	Fine adjustment of CH 31
33	Cool White 2	0–255	
34	Cool White 2 Fine	0–255	Fine adjustment of CH 33
35	Warm White 2	0–255	
36	Warm White 2 Fine	0–255	Fine adjustment of CH 35
37	Dimmer 3	0–255	
38	Dimmer 3 Fine	0–255	Fine adjustment of CH 37
39	Red 3	0–255	
40	Red 3 Fine	0–255	Fine adjustment of CH 39
41	Green 3	0–255	
42	Green 3 Fine	0–255	Fine adjustment of CH 41
43	Blue 3	0–255	
44	Blue 3 Fine	0–255	Fine adjustment of CH 43
45	UV 3	0–255	
46	UV 3 Fine	0–255	Fine adjustment of CH 45
47	Green Cyan 3	0–255	
48	Green Cyan 3 Fine	0–255	Fine adjustment of CH 47
49	Amber 3	0–255	
50	Amber 3 Fine	0–255	Fine adjustment of CH 49
51	Cool White 3	0–255	
52	Cool White 3 Fine	0–255	Fine adjustment of CH 51
53	Warm White 3	0–255	
54	Warm White 3 Fine	0–255	Fine adjustment of CH 53
55	Dimmer 4	0–255	
56	Dimmer 4 Fine	0–255	Fine adjustment of CH 55
57	Red 4	0–255	
58	Red 4 Fine	0–255	Fine adjustment of CH 57
59	Green 4	0–255	
60	Green 4 Fine	0–255	Fine adjustment of CH 59
61	Blue 4	0–255	
62	Blue 4 Fine	0–255	Fine adjustment of CH 61
63	UV 4	0–255	
64	UV 4 Fine	0–255	Fine adjustment of CH 63
65	Green Cyan 4	0–255	
66	Green Cyan 4 Fine	0–255	Fine adjustment of CH 65
67	Amber 4	0–255	
68	Amber 4 Fine	0–255	Fine adjustment of CH 67
69	Cool White 4	0–255	
70	Cool White 4 Fine	0–255	Fine adjustment of CH 69
71	Warm White 4	0–255	
72	Warm White 4 Fine	0–255	Fine adjustment of CH 71

10 Technical specifications

Parameter	Value
Light	
Light source	LED
Control	
DMX connection	5-pin XLR IN/OUT
RJ45 connectors	RJ45
RDM	yes (manufacturer ID 0x09AE, device model ID 0x2144)
Electrical	
Power supply	90–265 V, 50/60 Hz
Power consumption	285 W
Power connectors	powerCON TRUE1 IN, powerCONTRUE1TOP OUT
Dimensions and construction	
Weight	11 kg
Operating environment	
Operating temperature	5 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	2200–6500 K
Strobe frequency	5.8–11.5 Hz
Strobe flash duration	1–85 s

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.