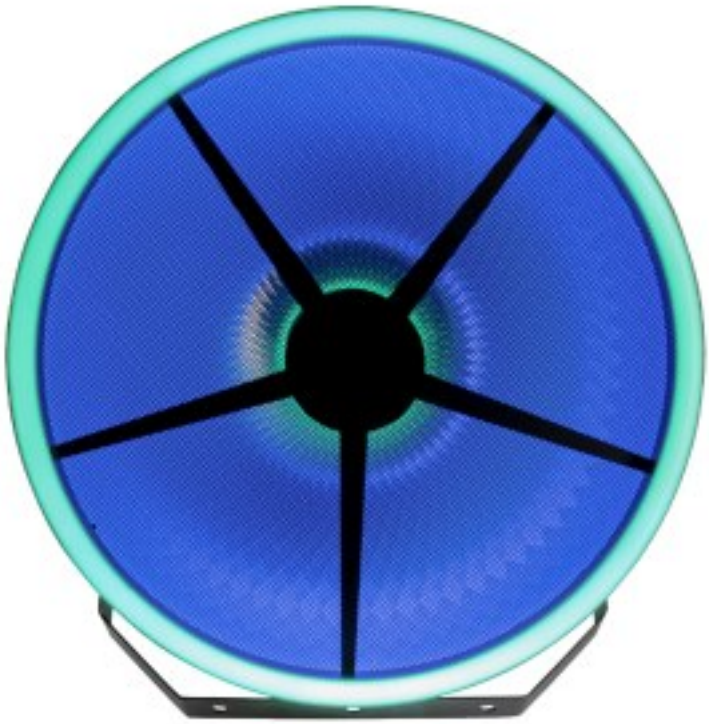
DMX REFERENCE

Goliath

Showtec



Manufacturer	Showtec
GDTF file	Showtec_Goliath_136931.gdtf
GDTF revision	13 and 19ch bugfix · 2026-04-03
Generated	2026-11-24

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1 About this manual

This document describes the Goliath by Showtec. It was compiled from the GDTF file Showtec_Goliath_136931.gdtf from the GDTF-Share library.

File revision: “13 and 19ch bugfix”.

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 Showtec; 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	325 W
Weight	12.5 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
4Ch RGBW Mode	4	128	1, 5, 9, 13, ...
5Ch RAW Mode	5	102	1, 6, 11, 16, ...
13Ch Basic Mode	13	39	1, 14, 27, 40, ...
19Ch Extended Mode	19	26	1, 20, 39, 58, ...
793Ch Extended Mode	793	–	–

No light? Check these channels

- 13Ch Basic Mode: CH 2 Shutter at 0–9, 100–109, 140–149 or 180–189; CH 4 Shutter 2 at 0–9, 100–109, 140–149 or 180–189
- 19Ch Extended Mode: CH 2 Shutter at 0–9, 100–109, 140–149 or 180–189; CH 4 Shutter 2 at 0–9, 100–109, 140–149 or 180–189


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.

4 Product description

Description in the GDTF file

“Goliath is a retro light effect that combines a powerful 300 W warm white LED with built-in 20 W amber LED, along with a dual RGB LED ring and central RGB LEDs. The 20 W amber and 300 W warm white LED replicate the classic tungsten dimming effect, delivering a nostalgic retro feel. Depending on the selected mode, the warm white and amber LEDs can be controlled separately or as a single 'tungsten channel'.”

“Behind the central circular plate there are 24 RGB LEDs that illuminate the centre of the reflector. Surrounding this, a large circle of 120 RGB LEDs lights up the reflector’s edges. A second ring of 120 RGB LEDs at the outer edge faces forward. Each RGB LEDs can be controlled individually, offering nearly infinite effect possibilities.”

“The Goliath supports multiple control modes, including DMX, Art-Net, sACN, RDM, master/slave and manual modes, with several personalities ranging from 4 to 793 channels. It features a double bracket for both hanging and standing installations. Additionally, quick-lock mounting points on the back allow for easy attachment to a truss using the included brackets. A Schuko to Power Pro True cable is included.”

5 Installation

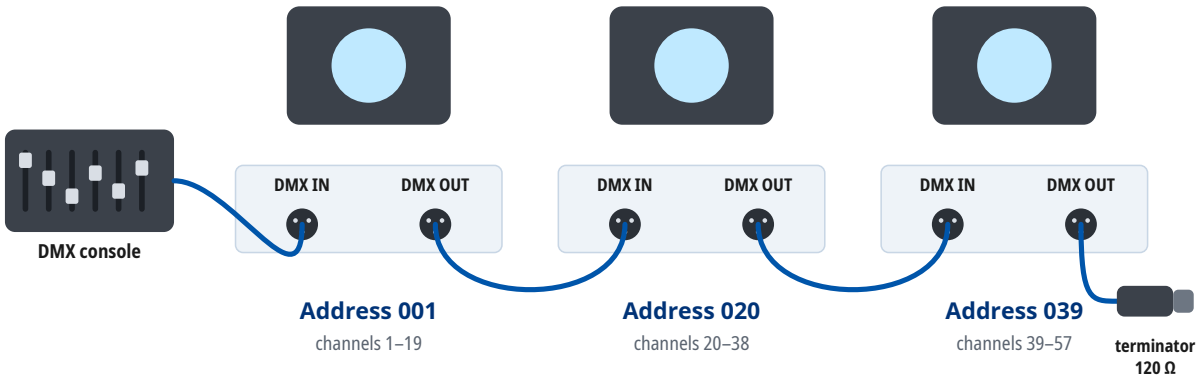
> ⚠ **WARNING**
>
> - Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
> - The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
> - Weight of the device: 12.5 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 19Ch Extended Mode: every unit occupies 19 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

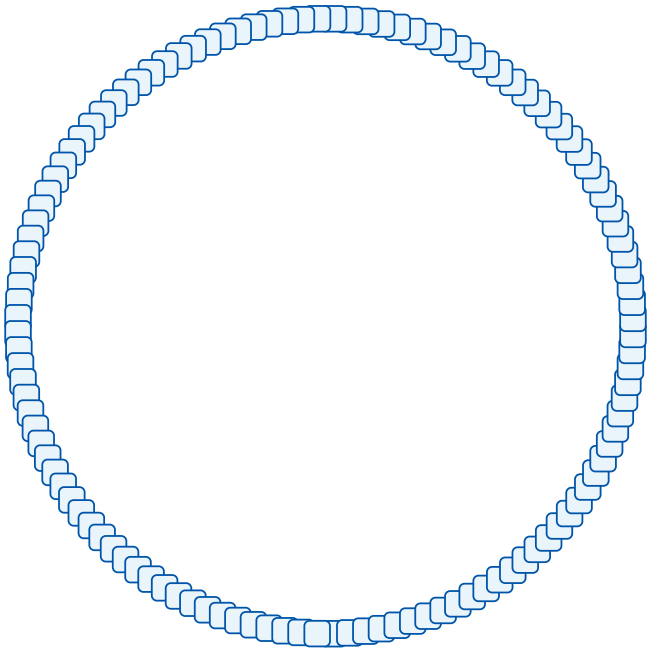
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “793Ch Extended Mode”: 793.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- 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

	4Ch RGBW Mode 4 channels	5Ch RAW Mode 5 channels	13Ch Basic Mode 13 channels	19Ch Extended Mode 19 channels	793Ch Extended Mode 793 channels
Dimmer	✓	✓	1, 3	1, 3	✓
Shutter / strobe			2, 4	2, 4	
Color mixing	1–4	1–5	5–13	5–13, 17–19	U1 · 1–U2 · 281
Effects / macros				14–16	
Pixel control			✓	✓	264 cells

Cells (pixels)

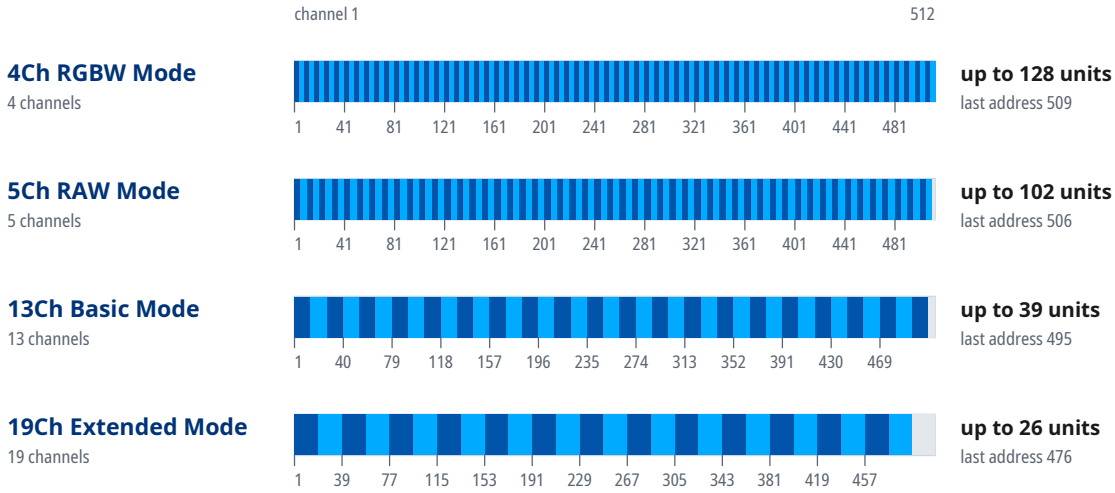


Cells where the GDTF file places them (seen from above), 120 in all in the mode “793Ch Extended Mode”.

9 DMX channels

Mode	Channels
793Ch Extended Mode	793

Units in one DMX universe



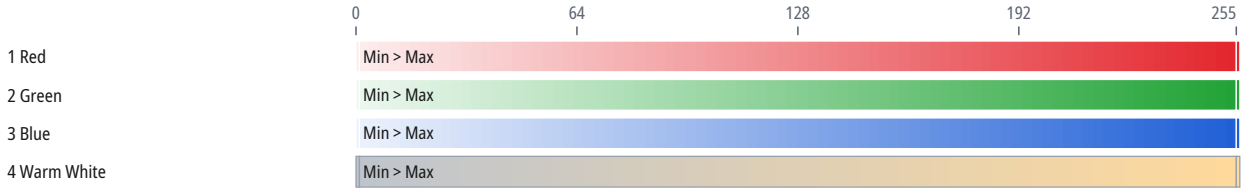
Start addresses of 20 units in the mode “19Ch Extended Mode”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	96	11	191	16	286
2	20	7	115	12	210	17	305
3	39	8	134	13	229	18	324
4	58	9	153	14	248	19	343
5	77	10	172	15	267	20	362

Mode 4Ch RGBW Mode

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 Warm White 255.

Channel functions at a glance



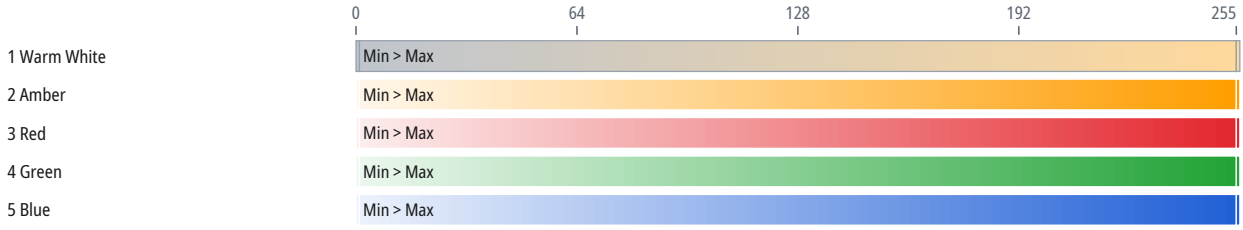
CH	Function	DMX	Description
1	Red	0	Min
		1–254	Min > Max
		255	Max
2	Green	0	Min
		1–254	Min > Max
		255	Max

CH	Function	DMX	Description
3	Blue	0	Min
		1–254	Min > Max
		255	Max
4	Warm White	0	Min
		1–254	Min > Max
		255	Max

Mode 5Ch RAW Mode

The GDTF file gives these values for a console's Highlight function: CH 1 Warm White 255, CH 2 Amber 255, CH 3 Red 255, CH 4 Green 255, CH 5 Blue 255.

Channel functions at a glance

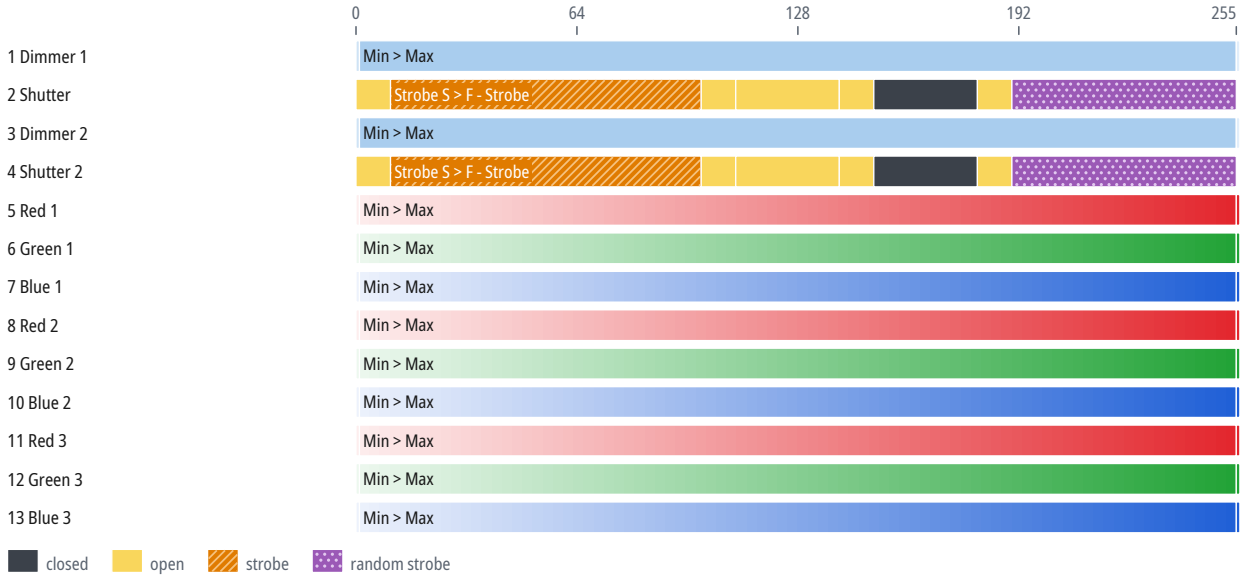


CH	Function	DMX	Description
1	Warm White		Same as CH 4 in the mode “4Ch RGBW Mode” (p. 9)
2	Amber	0	Min
		1–254	Min > Max
		255	Max
3	Red		Same as CH 1 in the mode “4Ch RGBW Mode” (p. 8)
4	Green		Same as CH 2 in the mode “4Ch RGBW Mode” (p. 8)
5	Blue		Same as CH 3 in the mode “4Ch RGBW Mode” (p. 9)

Mode 13Ch Basic Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 2 Shutter at 0–9, 100–109, 140–149 or 180–189; CH 4 Shutter 2 at 0–9, 100–109, 140–149 or 180–189. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 5 Red 1 255, CH 6 Green 1 255, CH 7 Blue 1 255, CH 8 Red 2 255, CH 9 Green 2 255, CH 10 Blue 2 255, CH 11 Red 3 255, CH 12 Green 3 255, CH 13 Blue 3 255.

Channel functions at a glance



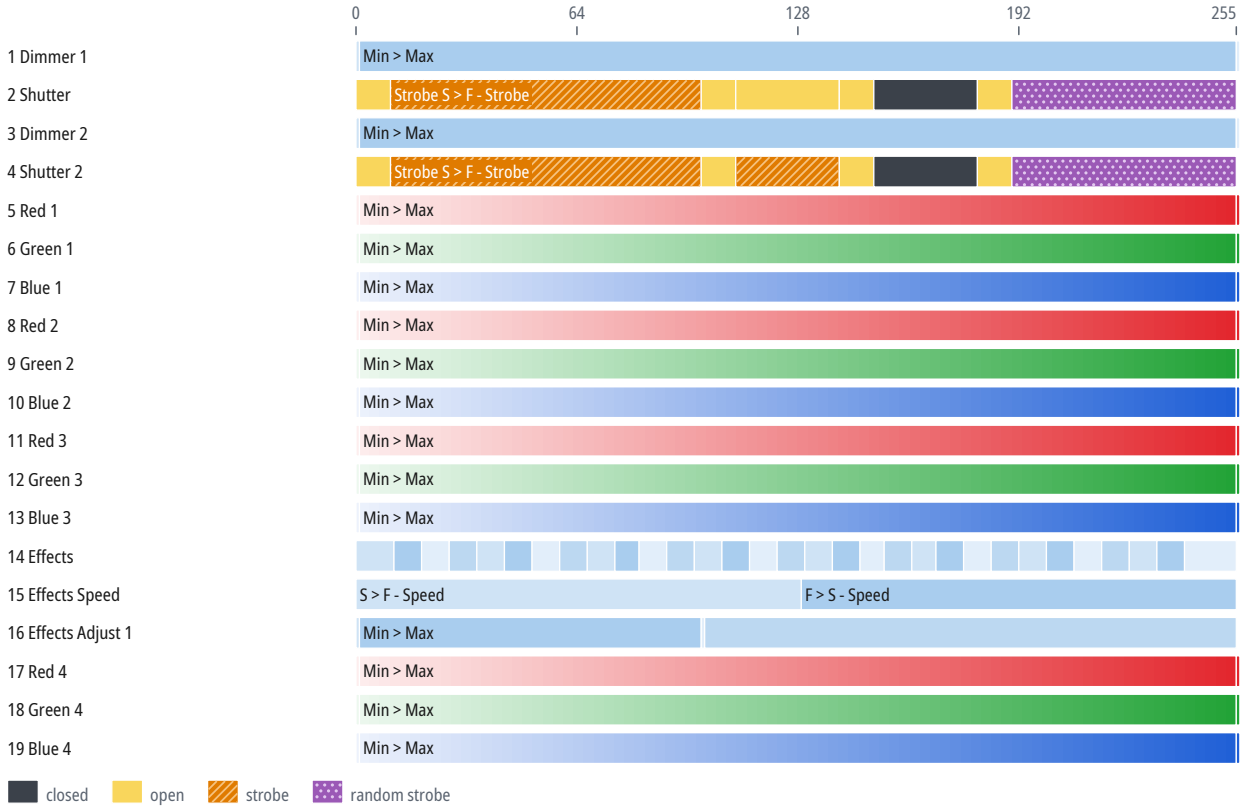
CH	Function	DMX	Description
1	Dimmer 1		WW DIMMER
		0	Min
		1–254	Min > Max
		255	Max
2	Shutter	0–9	Open - Shutter Open
		10–99	Strobe S > F - Strobe (0.1–10 Hz)
		100–109	Open - Shutter Open
		110–139	Ramp Up S > F - Strobe Pulse Open (0.1–10 Hz)
		140–149	Open - Shutter Open
		150–179	Ramp Down S > F - Strobe Pulse Closed (0.1–10 Hz)
		180–189	Open - Shutter Open
		190–255	Strobe Random All - Strobe Random
3	Dimmer 2		RGB DIMMER
		0	Min
		1–254	Min > Max
		255	Max
4	Shutter 2	0–9	Open - Shutter Open
		10–99	Strobe S > F - Strobe (0.1–10 Hz)
		100–109	Open - Shutter Open
		110–139	Ramp Up S > F - Strobe Pulse Open (0.1–10 Hz)

CH	Function	DMX	Description
4	Shutter 2 (continued)	140–149	Open - Shutter Open
		150–179	Ramp Down S > F - Strobe Pulse Closed (0.1–10 Hz)
		180–189	Open - Shutter Open
		190–255	Strobe Random All - Strobe Random
5	Red 1		CENTER RED
		0	Min
		1–254	Min > Max
		255	Max
6	Green 1		CENTER GREEN
		0	Min
		1–254	Min > Max
		255	Max
7	Blue 1		CENTER BLUE
		0	Min
		1–254	Min > Max
		255	Max
8	Red 2		OUTER RED
		0	Min
		1–254	Min > Max
		255	Max
9	Green 2		OUTER GREEN
		0	Min
		1–254	Min > Max
		255	Max
10	Blue 2		OUTER BLUE
		0	Min
		1–254	Min > Max
		255	Max
11	Red 3		FRONT RED
		0	Min
		1–254	Min > Max
		255	Max
12	Green 3		FRONT GREEN
		0	Min
		1–254	Min > Max
		255	Max
13	Blue 3		FRONT BLUE
		0	Min
		1–254	Min > Max
		255	Max

Mode 19Ch Extended Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 2 Shutter at 0–9, 100–109, 140–149 or 180–189; CH 4 Shutter 2 at 0–9, 100–109, 140–149 or 180–189. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 5 Red 1 255, CH 6 Green 1 255, CH 7 Blue 1 255, CH 8 Red 2 255, CH 9 Green 2 255, CH 10 Blue 2 255, CH 11 Red 3 255, CH 12 Green 3 255, CH 13 Blue 3 255, CH 17 Red 4 255, CH 18 Green 4 255, CH 19 Blue 4 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “13Ch Basic Mode” (p. 10)
2	Shutter		Same as CH 2 in the mode “13Ch Basic Mode” (p. 10)
3	Dimmer 2		Same as CH 3 in the mode “13Ch Basic Mode” (p. 10)
4	Shutter 2	0–9	Open - Shutter Open
		10–99	Strobe S > F - Strobe (0.1–10 Hz)
		100–109	Open - Shutter Open
		110–139	Ramp Up S > F - Strobe Pulse Open
		140–149	Open - Shutter Open
		150–179	Ramp Down S > F - Strobe Pulse Closed (0.1–10 Hz)
		180–189	Open - Shutter Open
		190–255	Strobe Random All - Strobe Random
5	Red 1		Same as CH 5 in the mode “13Ch Basic Mode” (p. 11)
6	Green 1		Same as CH 6 in the mode “13Ch Basic Mode” (p. 11)
7	Blue 1		Same as CH 7 in the mode “13Ch Basic Mode” (p. 11)
8	Red 2		Same as CH 8 in the mode “13Ch Basic Mode” (p. 11)

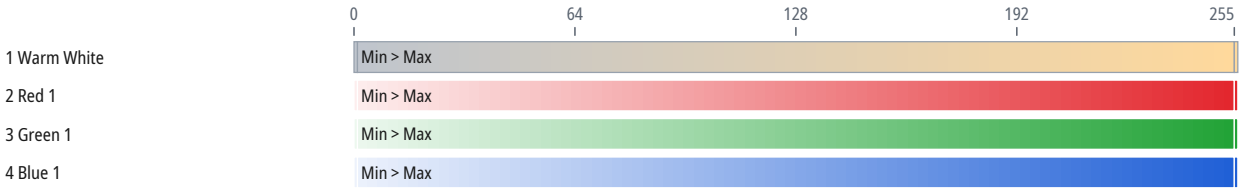
CH	Function	DMX	Description
9	Green 2		Same as CH 9 in the mode “13Ch Basic Mode” (p. 11)
10	Blue 2		Same as CH 10 in the mode “13Ch Basic Mode” (p. 11)
11	Red 3		Same as CH 11 in the mode “13Ch Basic Mode” (p. 11)
12	Green 3		Same as CH 12 in the mode “13Ch Basic Mode” (p. 11)
13	Blue 3		Same as CH 13 in the mode “13Ch Basic Mode” (p. 11)
14	Effects	0–10	No Function - Custom
		11–18	Program 1 - Macro
		19–26	Program 2 - Macro
		27–34	Program 3 - Macro
		35–42	Program 4 - Macro
		43–50	Program 5 - Macro
		51–58	Program 6 - Macro
		59–66	Program 7 - Macro
		67–74	Program 8 - Macro
		75–81	Program 9 - Macro
		82–89	Program 10 - Macro
		90–97	Program 11 - Macro
		98–105	Program 12 - Macro
		106–113	Program 13 - Macro
		114–121	Program 14 - Macro
		122–129	Program 15 - Macro
		130–137	Program 16 - Macro
		138–145	Program 17 - Macro
		146–152	Program 18 - Macro
		153–160	Program 19 - Macro
		161–167	Program 20 - Macro
		168–175	Program 21 - Macro
		176–183	Program 22 - Macro
		184–191	Program 23 - Macro
		192–199	Program 24 - Macro
		200–207	Program 25 - Macro
		208–215	Program 26 - Macro
		216–223	Program 27 - Macro
		224–231	Program 28 - Macro
		232–239	Program 29 - Macro
		240–255	Program 30 - Macro
15	Effects Speed		PROGRAM SPEED
		0–128	S > F - Speed (0.1–10 Hz)
		129–255	F > S - Speed (10–0.1 Hz)
16	Effects Adjust 1	0	Min
		1–99	Min > Max
		100	Max

CH	Function	DMX	Description
16	Effects Adjust 1 (continued)	101–255	Effects 1 Adjust 1
17	Red 4		BACKGROUND RED
		0	Min
		1–254	Min > Max
		255	Max
18	Green 4		BACKGROUND GREEN
		0	Min
		1–254	Min > Max
		255	Max
19	Blue 4		BACKGROUND BLUE
		0	Min
		1–254	Min > Max
		255	Max

Mode 793Ch Extended Mode

The GDTF file gives these values for a console's Highlight function: CH 1 Warm White 255, CH 2 Red 255 (the same in each of the 264 cells), CH 3 Green 255 (the same in each of the 264 cells), CH 4 Blue 255 (the same in each of the 264 cells).

Channel functions at a glance



CH	Function	DMX	Description
1	Warm White		Same as CH 4 in the mode “4Ch RGBW Mode” (p. 9)
2	Red 1		INNER CENTER RED
		0	Min
		1–254	Min > Max
		255	Max
3	Green 1		INNER CENTER GREEN
		0	Min
		1–254	Min > Max
		255	Max
4	Blue 1		INNER CENTER BLUE
		0	Min
		1–254	Min > Max
		255	Max

CH 2–793: 264 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 2–4); the table below gives each cell's channel numbers. U = DMX universe from the start address, then the channel in it.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	U1 · 2	U1 · 3	U1 · 4	2	U1 · 5	U1 · 6	U1 · 7	3	U1 · 8	U1 · 9	U1 · 10
4	U1 · 11	U1 · 12	U1 · 13	5	U1 · 14	U1 · 15	U1 · 16	6	U1 · 17	U1 · 18	U1 · 19
7	U1 · 20	U1 · 21	U1 · 22	8	U1 · 23	U1 · 24	U1 · 25	9	U1 · 26	U1 · 27	U1 · 28
10	U1 · 29	U1 · 30	U1 · 31	11	U1 · 32	U1 · 33	U1 · 34	12	U1 · 35	U1 · 36	U1 · 37
13	U1 · 38	U1 · 39	U1 · 40	14	U1 · 41	U1 · 42	U1 · 43	15	U1 · 44	U1 · 45	U1 · 46
16	U1 · 47	U1 · 48	U1 · 49	17	U1 · 50	U1 · 51	U1 · 52	18	U1 · 53	U1 · 54	U1 · 55
19	U1 · 56	U1 · 57	U1 · 58	20	U1 · 59	U1 · 60	U1 · 61	21	U1 · 62	U1 · 63	U1 · 64
22	U1 · 65	U1 · 66	U1 · 67	23	U1 · 68	U1 · 69	U1 · 70	24	U1 · 71	U1 · 72	U1 · 73
25	U1 · 74	U1 · 75	U1 · 76	26	U1 · 77	U1 · 78	U1 · 79	27	U1 · 80	U1 · 81	U1 · 82
28	U1 · 83	U1 · 84	U1 · 85	29	U1 · 86	U1 · 87	U1 · 88	30	U1 · 89	U1 · 90	U1 · 91
31	U1 · 92	U1 · 93	U1 · 94	32	U1 · 95	U1 · 96	U1 · 97	33	U1 · 98	U1 · 99	U1 · 100
34	U1 · 101	U1 · 102	U1 · 103	35	U1 · 104	U1 · 105	U1 · 106	36	U1 · 107	U1 · 108	U1 · 109
37	U1 · 110	U1 · 111	U1 · 112	38	U1 · 113	U1 · 114	U1 · 115	39	U1 · 116	U1 · 117	U1 · 118
40	U1 · 119	U1 · 120	U1 · 121	41	U1 · 122	U1 · 123	U1 · 124	42	U1 · 125	U1 · 126	U1 · 127
43	U1 · 128	U1 · 129	U1 · 130	44	U1 · 131	U1 · 132	U1 · 133	45	U1 · 134	U1 · 135	U1 · 136
46	U1 · 137	U1 · 138	U1 · 139	47	U1 · 140	U1 · 141	U1 · 142	48	U1 · 143	U1 · 144	U1 · 145
49	U1 · 146	U1 · 147	U1 · 148	50	U1 · 149	U1 · 150	U1 · 151	51	U1 · 152	U1 · 153	U1 · 154
52	U1 · 155	U1 · 156	U1 · 157	53	U1 · 158	U1 · 159	U1 · 160	54	U1 · 161	U1 · 162	U1 · 163
55	U1 · 164	U1 · 165	U1 · 166	56	U1 · 167	U1 · 168	U1 · 169	57	U1 · 170	U1 · 171	U1 · 172
58	U1 · 173	U1 · 174	U1 · 175	59	U1 · 176	U1 · 177	U1 · 178	60	U1 · 179	U1 · 180	U1 · 181
61	U1 · 182	U1 · 183	U1 · 184	62	U1 · 185	U1 · 186	U1 · 187	63	U1 · 188	U1 · 189	U1 · 190
64	U1 · 191	U1 · 192	U1 · 193	65	U1 · 194	U1 · 195	U1 · 196	66	U1 · 197	U1 · 198	U1 · 199
67	U1 · 200	U1 · 201	U1 · 202	68	U1 · 203	U1 · 204	U1 · 205	69	U1 · 206	U1 · 207	U1 · 208
70	U1 · 209	U1 · 210	U1 · 211	71	U1 · 212	U1 · 213	U1 · 214	72	U1 · 215	U1 · 216	U1 · 217
73	U1 · 218	U1 · 219	U1 · 220	74	U1 · 221	U1 · 222	U1 · 223	75	U1 · 224	U1 · 225	U1 · 226
76	U1 · 227	U1 · 228	U1 · 229	77	U1 · 230	U1 · 231	U1 · 232	78	U1 · 233	U1 · 234	U1 · 235
79	U1 · 236	U1 · 237	U1 · 238	80	U1 · 239	U1 · 240	U1 · 241	81	U1 · 242	U1 · 243	U1 · 244
82	U1 · 245	U1 · 246	U1 · 247	83	U1 · 248	U1 · 249	U1 · 250	84	U1 · 251	U1 · 252	U1 · 253
85	U1 · 254	U1 · 255	U1 · 256	86	U1 · 257	U1 · 258	U1 · 259	87	U1 · 260	U1 · 261	U1 · 262
88	U1 · 263	U1 · 264	U1 · 265	89	U1 · 266	U1 · 267	U1 · 268	90	U1 · 269	U1 · 270	U1 · 271
91	U1 · 272	U1 · 273	U1 · 274	92	U1 · 275	U1 · 276	U1 · 277	93	U1 · 278	U1 · 279	U1 · 280
94	U1 · 281	U1 · 282	U1 · 283	95	U1 · 284	U1 · 285	U1 · 286	96	U1 · 287	U1 · 288	U1 · 289
97	U1 · 290	U1 · 291	U1 · 292	98	U1 · 293	U1 · 294	U1 · 295	99	U1 · 296	U1 · 297	U1 · 298
100	U1 · 299	U1 · 300	U1 · 301	101	U1 · 302	U1 · 303	U1 · 304	102	U1 · 305	U1 · 306	U1 · 307
103	U1 · 308	U1 · 309	U1 · 310	104	U1 · 311	U1 · 312	U1 · 313	105	U1 · 314	U1 · 315	U1 · 316
106	U1 · 317	U1 · 318	U1 · 319	107	U1 · 320	U1 · 321	U1 · 322	108	U1 · 323	U1 · 324	U1 · 325
109	U1 · 326	U1 · 327	U1 · 328	110	U1 · 329	U1 · 330	U1 · 331	111	U1 · 332	U1 · 333	U1 · 334
112	U1 · 335	U1 · 336	U1 · 337	113	U1 · 338	U1 · 339	U1 · 340	114	U1 · 341	U1 · 342	U1 · 343
115	U1 · 344	U1 · 345	U1 · 346	116	U1 · 347	U1 · 348	U1 · 349	117	U1 · 350	U1 · 351	U1 · 352

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
118	U1 · 353	U1 · 354	U1 · 355	119	U1 · 356	U1 · 357	U1 · 358	120	U1 · 359	U1 · 360	U1 · 361
121	U1 · 362	U1 · 363	U1 · 364	122	U1 · 365	U1 · 366	U1 · 367	123	U1 · 368	U1 · 369	U1 · 370
124	U1 · 371	U1 · 372	U1 · 373	125	U1 · 374	U1 · 375	U1 · 376	126	U1 · 377	U1 · 378	U1 · 379
127	U1 · 380	U1 · 381	U1 · 382	128	U1 · 383	U1 · 384	U1 · 385	129	U1 · 386	U1 · 387	U1 · 388
130	U1 · 389	U1 · 390	U1 · 391	131	U1 · 392	U1 · 393	U1 · 394	132	U1 · 395	U1 · 396	U1 · 397
133	U1 · 398	U1 · 399	U1 · 400	134	U1 · 401	U1 · 402	U1 · 403	135	U1 · 404	U1 · 405	U1 · 406
136	U1 · 407	U1 · 408	U1 · 409	137	U1 · 410	U1 · 411	U1 · 412	138	U1 · 413	U1 · 414	U1 · 415
139	U1 · 416	U1 · 417	U1 · 418	140	U1 · 419	U1 · 420	U1 · 421	141	U1 · 422	U1 · 423	U1 · 424
142	U1 · 425	U1 · 426	U1 · 427	143	U1 · 428	U1 · 429	U1 · 430	144	U1 · 431	U1 · 432	U1 · 433
145	U1 · 434	U1 · 435	U1 · 436	146	U1 · 437	U1 · 438	U1 · 439	147	U1 · 440	U1 · 441	U1 · 442
148	U1 · 443	U1 · 444	U1 · 445	149	U1 · 446	U1 · 447	U1 · 448	150	U1 · 449	U1 · 450	U1 · 451
151	U1 · 452	U1 · 453	U1 · 454	152	U1 · 455	U1 · 456	U1 · 457	153	U1 · 458	U1 · 459	U1 · 460
154	U1 · 461	U1 · 462	U1 · 463	155	U1 · 464	U1 · 465	U1 · 466	156	U1 · 467	U1 · 468	U1 · 469
157	U1 · 470	U1 · 471	U1 · 472	158	U1 · 473	U1 · 474	U1 · 475	159	U1 · 476	U1 · 477	U1 · 478
160	U1 · 479	U1 · 480	U1 · 481	161	U1 · 482	U1 · 483	U1 · 484	162	U1 · 485	U1 · 486	U1 · 487
163	U1 · 488	U1 · 489	U1 · 490	164	U1 · 491	U1 · 492	U1 · 493	165	U1 · 494	U1 · 495	U1 · 496
166	U1 · 497	U1 · 498	U1 · 499	167	U1 · 500	U1 · 501	U1 · 502	168	U1 · 503	U1 · 504	U1 · 505
169	U1 · 506	U1 · 507	U1 · 508	170	U1 · 509	U1 · 510	U1 · 511	171	U1 · 512	U2 · 1	U2 · 2
172	U2 · 3	U2 · 4	U2 · 5	173	U2 · 6	U2 · 7	U2 · 8	174	U2 · 9	U2 · 10	U2 · 11
175	U2 · 12	U2 · 13	U2 · 14	176	U2 · 15	U2 · 16	U2 · 17	177	U2 · 18	U2 · 19	U2 · 20
178	U2 · 21	U2 · 22	U2 · 23	179	U2 · 24	U2 · 25	U2 · 26	180	U2 · 27	U2 · 28	U2 · 29
181	U2 · 30	U2 · 31	U2 · 32	182	U2 · 33	U2 · 34	U2 · 35	183	U2 · 36	U2 · 37	U2 · 38
184	U2 · 39	U2 · 40	U2 · 41	185	U2 · 42	U2 · 43	U2 · 44	186	U2 · 45	U2 · 46	U2 · 47
187	U2 · 48	U2 · 49	U2 · 50	188	U2 · 51	U2 · 52	U2 · 53	189	U2 · 54	U2 · 55	U2 · 56
190	U2 · 57	U2 · 58	U2 · 59	191	U2 · 60	U2 · 61	U2 · 62	192	U2 · 63	U2 · 64	U2 · 65
193	U2 · 66	U2 · 67	U2 · 68	194	U2 · 69	U2 · 70	U2 · 71	195	U2 · 72	U2 · 73	U2 · 74
196	U2 · 75	U2 · 76	U2 · 77	197	U2 · 78	U2 · 79	U2 · 80	198	U2 · 81	U2 · 82	U2 · 83
199	U2 · 84	U2 · 85	U2 · 86	200	U2 · 87	U2 · 88	U2 · 89	201	U2 · 90	U2 · 91	U2 · 92
202	U2 · 93	U2 · 94	U2 · 95	203	U2 · 96	U2 · 97	U2 · 98	204	U2 · 99	U2 · 100	U2 · 101
205	U2 · 102	U2 · 103	U2 · 104	206	U2 · 105	U2 · 106	U2 · 107	207	U2 · 108	U2 · 109	U2 · 110
208	U2 · 111	U2 · 112	U2 · 113	209	U2 · 114	U2 · 115	U2 · 116	210	U2 · 117	U2 · 118	U2 · 119
211	U2 · 120	U2 · 121	U2 · 122	212	U2 · 123	U2 · 124	U2 · 125	213	U2 · 126	U2 · 127	U2 · 128
214	U2 · 129	U2 · 130	U2 · 131	215	U2 · 132	U2 · 133	U2 · 134	216	U2 · 135	U2 · 136	U2 · 137
217	U2 · 138	U2 · 139	U2 · 140	218	U2 · 141	U2 · 142	U2 · 143	219	U2 · 144	U2 · 145	U2 · 146
220	U2 · 147	U2 · 148	U2 · 149	221	U2 · 150	U2 · 151	U2 · 152	222	U2 · 153	U2 · 154	U2 · 155
223	U2 · 156	U2 · 157	U2 · 158	224	U2 · 159	U2 · 160	U2 · 161	225	U2 · 162	U2 · 163	U2 · 164
226	U2 · 165	U2 · 166	U2 · 167	227	U2 · 168	U2 · 169	U2 · 170	228	U2 · 171	U2 · 172	U2 · 173
229	U2 · 174	U2 · 175	U2 · 176	230	U2 · 177	U2 · 178	U2 · 179	231	U2 · 180	U2 · 181	U2 · 182
232	U2 · 183	U2 · 184	U2 · 185	233	U2 · 186	U2 · 187	U2 · 188	234	U2 · 189	U2 · 190	U2 · 191
235	U2 · 192	U2 · 193	U2 · 194	236	U2 · 195	U2 · 196	U2 · 197	237	U2 · 198	U2 · 199	U2 · 200
238	U2 · 201	U2 · 202	U2 · 203	239	U2 · 204	U2 · 205	U2 · 206	240	U2 · 207	U2 · 208	U2 · 209
241	U2 · 210	U2 · 211	U2 · 212	242	U2 · 213	U2 · 214	U2 · 215	243	U2 · 216	U2 · 217	U2 · 218

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
244	U2 · 219	U2 · 220	U2 · 221	245	U2 · 222	U2 · 223	U2 · 224	246	U2 · 225	U2 · 226	U2 · 227
247	U2 · 228	U2 · 229	U2 · 230	248	U2 · 231	U2 · 232	U2 · 233	249	U2 · 234	U2 · 235	U2 · 236
250	U2 · 237	U2 · 238	U2 · 239	251	U2 · 240	U2 · 241	U2 · 242	252	U2 · 243	U2 · 244	U2 · 245
253	U2 · 246	U2 · 247	U2 · 248	254	U2 · 249	U2 · 250	U2 · 251	255	U2 · 252	U2 · 253	U2 · 254
256	U2 · 255	U2 · 256	U2 · 257	257	U2 · 258	U2 · 259	U2 · 260	258	U2 · 261	U2 · 262	U2 · 263
259	U2 · 264	U2 · 265	U2 · 266	260	U2 · 267	U2 · 268	U2 · 269	261	U2 · 270	U2 · 271	U2 · 272
262	U2 · 273	U2 · 274	U2 · 275	263	U2 · 276	U2 · 277	U2 · 278	264	U2 · 279	U2 · 280	U2 · 281

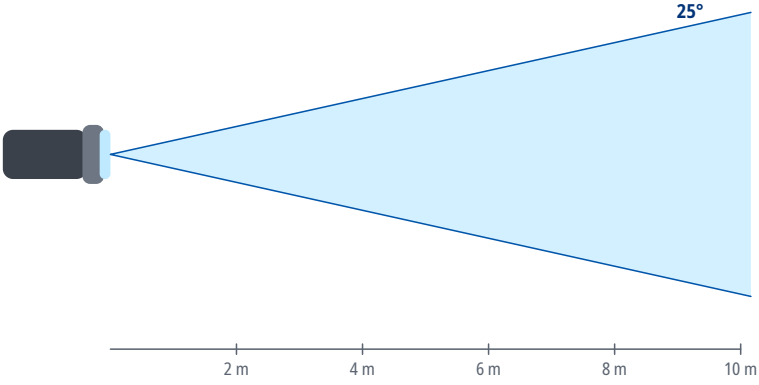
10 Technical specifications

Parameter	Value
Light	
Light source	LED
Control	
DMX connection	5-pin XLR IN/OUT, 3-pin XLR IN/OUT
RJ45 connectors	RJ45 IN/OUT
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	325 W
Power connectors	PowerConBlue IN/OUT
Dimensions and construction	
Weight	12.5 kg
Operating environment	
Operating temperature	-5 to 45 °C

Speeds and ranges

Parameter	Value
Strobe frequency	0.1–10 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.