DMX REFERENCE

Blinder FX

ATON

Manufacturer	ATON
GDTF file	ATON_Blinder_FX_169999.gdtf
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1 About this manual

This document describes the Blinder FX by ATON. It was compiled from the GDTF file ATON_Blinder_FX_169999.gdtf from the GDTF-Share library.

File revision: “STV1_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.

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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

DMX modes

Mode	Channels	Units in one universe	First start addresses
1ch	1	512	1, 2, 3, 4, ...
CTC	2	256	1, 3, 5, 7, ...
2ch A	2	256	1, 3, 5, 7, ...
2ch B	2	256	1, 3, 5, 7, ...
3ch	3	170	1, 4, 7, 10, ...
4ch	4	128	1, 5, 9, 13, ...
6ch	6	85	1, 7, 13, 19, ...
7chA	7	73	1, 8, 15, 22, ...
7chB	7	73	1, 8, 15, 22, ...
RGBAL	5	102	1, 6, 11, 16, ...
11ch	11	46	1, 12, 23, 34, ...
13ch A	13	39	1, 14, 27, 40, ...
13ch B	13	39	1, 14, 27, 40, ...
20ch A	20	25	1, 21, 41, 61, ...
20ch B	20	25	1, 21, 41, 61, ...
21ch	21	24	1, 22, 43, 64, ...
27ch	27	18	1, 28, 55, 82, ...
28ch	28	18	1, 29, 57, 85, ...
32ch	32	16	1, 33, 65, 97, ...
37ch	37	13	1, 38, 75, 112, ...
39ch	39	13	1, 40, 79, 118, ...
42ch	42	12	1, 43, 85, 127, ...
46ch	46	11	1, 47, 93, 139, ...
53ch	53	9	1, 54, 107, 160, ...



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.

⚠ WARNING

- This device produces very intense flashes of light.
- Flash rates of about 3 to 30 flashes per second carry the highest risk for people with photosensitive epilepsy.
- Do not aim the device into the eyes of the audience or performers at close range.
- At public events, always give clear advance notice that strobe effects will be used.

4 Installation

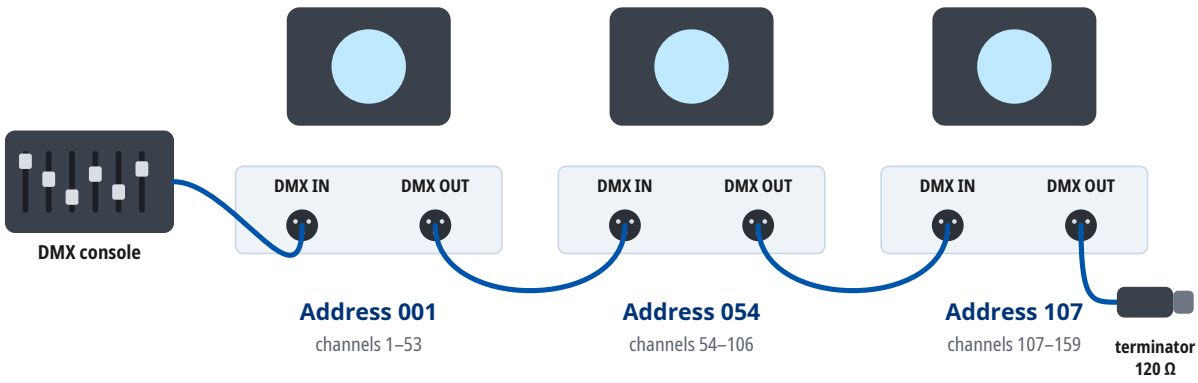
⚠ WARNING

- 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.
- 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.

5 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 53ch: every unit occupies 53 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.

6 Operation

Setting the DMX address

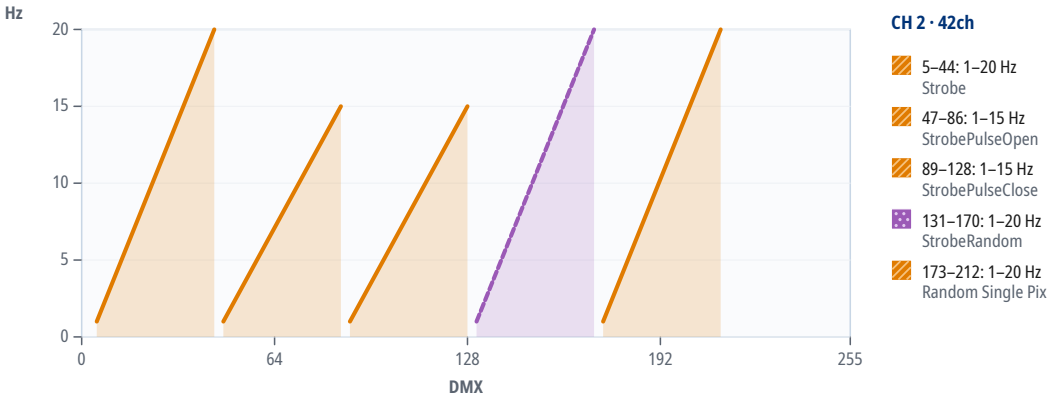
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “53ch”: 53.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in the DMX mode “53ch”, you can use, for example, the start addresses 1, 54, 107, 160.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

7 Functions at a glance

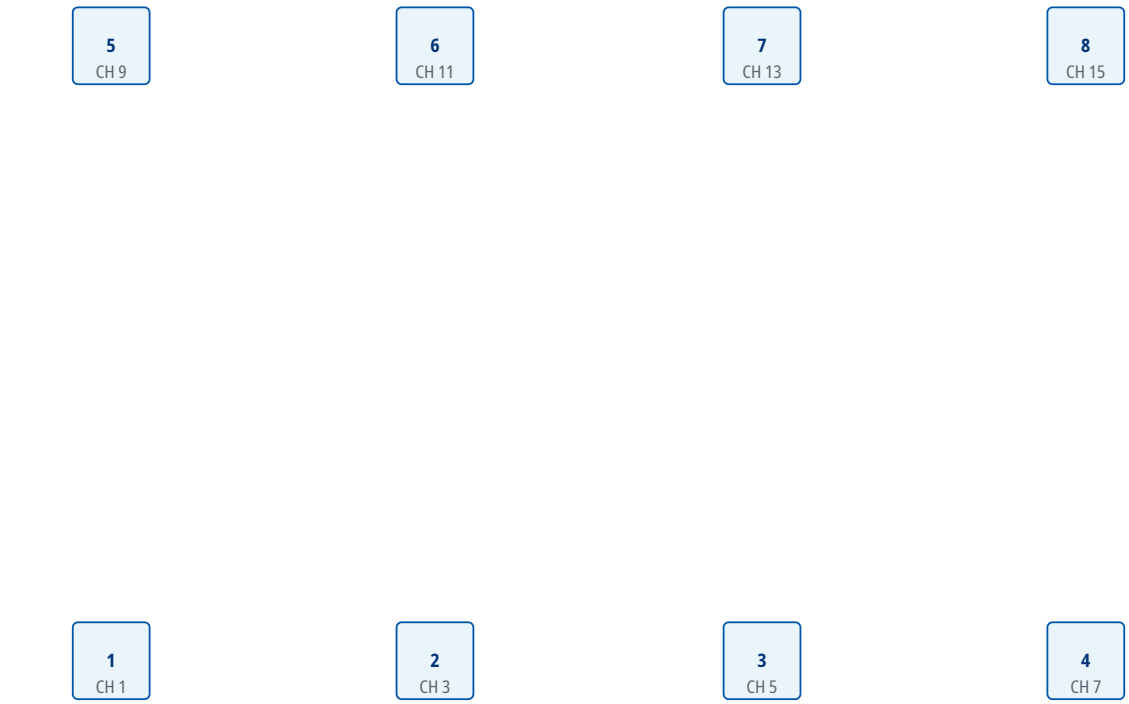
Functions in each DMX mode

	1ch 1 channel	CTC 2 channels	2ch A 2 channels	2ch B 2 channels	3ch 3 channels	4ch 4 channels	6ch 6 channels	7chA 7 channels
Dimmer	1	1	1, 2	1	1, 2	1, 3	1–6	1–6
Color temperature		2				2, 4		
Pixel control							✓	✓

Strobe rate



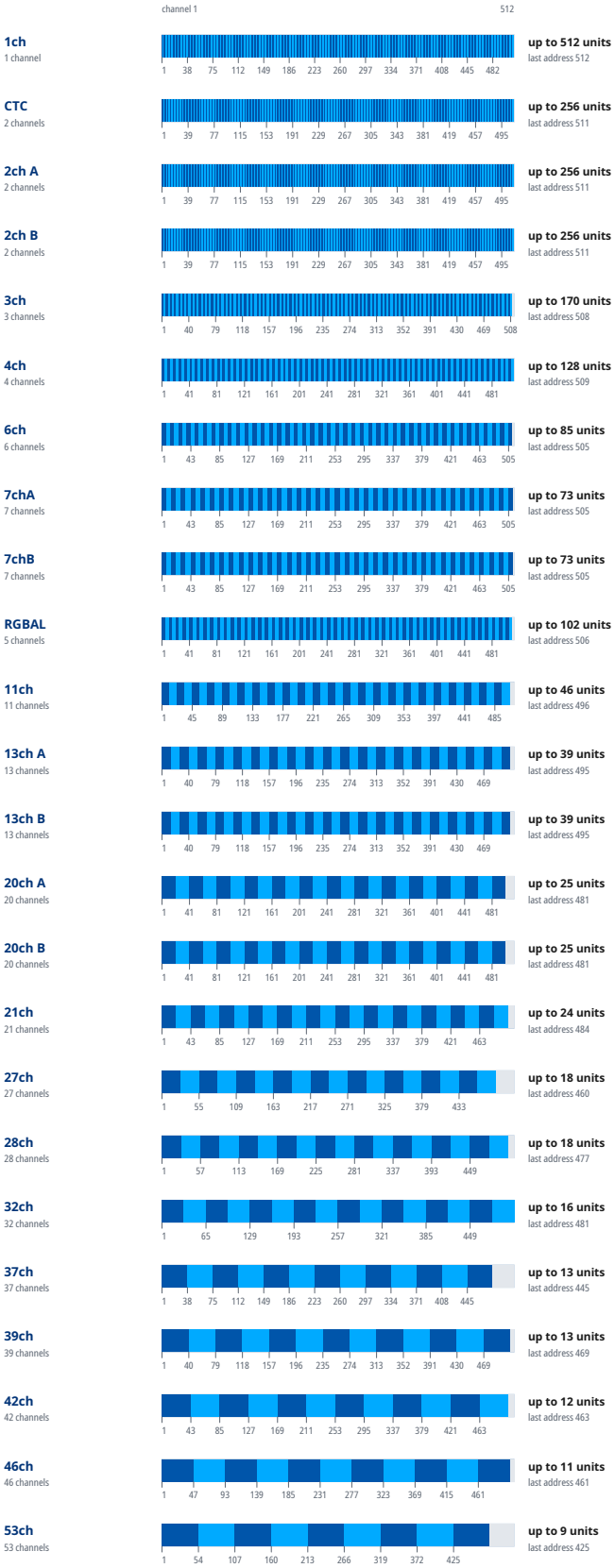
Cells (pixels)



8 cells where the GDTF file places them (seen from above), numbered by their first DMX channel (CH) in the mode “42ch”.

8 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “53ch”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	266	11	U2 · 54	16	U2 · 319
2	54	7	319	12	U2 · 107	17	U2 · 372
3	107	8	372	13	U2 · 160	18	U2 · 425
4	160	9	425	14	U2 · 213	19	U3 · 1
5	213	10	U2 · 1	15	U2 · 266	20	U3 · 54

Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode 1ch

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.

CH	Function	DMX	Description
1	Dimmer	0	Closed
		1–254	Closed … Open
		255	Open

Mode CTC

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.

CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “1ch” (p. 9)
2	Color Temperature	0–7	Open
		8–9	1750K (1750–1832 K)
		10–11	1800K
		12–13	1850K
		14–15	1900K
		16–17	1950K
		18–19	2000K
		20–21	2050K
		22–23	2100K
		24–25	2150K
		26–27	2200K
		28–29	2250K
		30–31	2300K
		32–33	2350K
		34–35	2400K
		36–37	2450K
		38–39	2500K
		40–41	2550K
		42–43	2600K
		44–45	2650K

CH	Function	DMX	Description
2	Color Temperature (continued)	46–47	2700K
		48–49	2750K
		50–51	2800K
		52–53	2850K
		54–55	2900K
		56–57	2950K
		58–59	3000K
		60–61	3050K
		62–63	3100K
		64–65	3150K
		66–67	3200K
		68–69	3250K
		70–71	3300K
		72–73	3350K
		74–75	3400K
		76–77	3450K
		78–79	3500K
		80–81	3550K
		82–83	3600K
		84–85	3650K
		86–87	3700K
		88–89	3750K
		90–91	3800K
		92–93	3850K
		94–95	3900K
		96–97	3950K
		98–99	4000K
		100–101	4050K
		102–103	4100K
		104–105	4150K
		106–107	4200K
		108–109	4250K
		110–111	4300K
		112–113	4350K
		114–115	4400K
		116–117	4450K
		118–119	4500K
		120–121	4550K
		122–123	4600K
		124–125	4650K
		126–127	4700K
		128–129	4750K

CH	Function	DMX	Description
2	Color Temperature (continued)	130–131	4800K
		132–133	4850K
		134–135	4900K
		136–137	4950K
		138–139	5000K
		140–141	5050K
		142–143	5100K
		144–145	5150K
		146–147	5200K
		148–149	5250K
		150–151	5300K
		152–153	5350K
		154–155	5400K
		156–157	5450K
		158–159	5500K
		160–161	5550K
		162–163	5600K
		164–165	5650K
		166–167	5700K
		168–169	5750K
		170–171	5800K
		172–173	5850K
		174–175	5900K
		176–177	5950K
		178–179	6000K
		180–181	6250K
		182–183	6500K
		184–185	6750K
		186–187	7000K
		188–189	7250K
		190–191	7500K
		192–193	7750K
		194–195	8000K
		196–197	8250K
		198–199	8500K
		200–201	8750K
		202–203	9000K
		204–205	9250K
		206–207	9500K
		208–209	9750K
		210–211	10000K
		212–213	11000K

CH	Function	DMX	Description
2	Color Temperature (continued)	214–215	12000K
		216–217	13000K
		218–219	14000K
		220–221	15000K
		222–223	16000K
		224–225	17000K
		226–227	18000K
		228–229	19000K
		230–231	20000K
		232–255	No function

Mode 2ch A

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

CH	Function	DMX	Description
1	Dimmer 1	0	Closed
		1–254	Closed ... Open
		255	Open
2	Dimmer 2	0	Closed
		1–254	Closed ... Open
		255	Open

Mode 2ch B

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.

CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “1ch” (p. 9)
2	Control	0–4	LED Frequency: Menu Selection
		5–9	1000Hz
		10–14	2000Hz
		15–19	3000Hz
		20–24	4000Hz
		25–29	6000Hz
		30–34	25000Hz
		35–39	Fan Mode: Menu Selection
		40–44	Auto
		45–49	Silent
		50–54	Fan Mode: Max
		55–59	Fan Mode: Off
		60–64	Display Lock: Menu Selection
		65–69	Lock On
		70–74	Lock Off

CH	Function	DMX	Description
2	Control (continued)	75–79	DMX Hold: Menu Selection
		80–84	Hold
		85–89	Black Out
		90–94	Standalone
		95–99	Emergency
		100–104	Display Flip: Menu Selection
		105–109	Display Flip: On
		110–114	Display Flip: Off
		115–119	Display Intensity: Menu Selection
		120–124	Display On
		125–129	30s Timeout
		130–134	Dimmer Curve: Menu Selection
		135–139	Linear
		140–144	Square Law
		145–149	Inverse Square
		150–154	S Curve
		155–159	Dimmer Mode: Menu Selection
		160–164	Dimmer Mode: Slow
		165–169	Medium
		170–174	Dimmer Mode: Fast
		175–179	Halogen
		180–184	Red Shift: Menu Selection
		185–189	Red Shift: On
		190–194	Red Shift: Off
		195–199	No function
		200–204	Dimmer Defaults
		205–219	No function
		220–224	Restore Defaults
		225–255	No function

Mode 3ch

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

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
3	Control		Same as CH 2 in the mode “2ch B” (p. 12)

Mode 4ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 3 Dimmer 2 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 3 Dimmer 2 255.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Color Temperature 1	0–7	Open
		8–9	1750K (1750–1832 K)
		10–11	1800K
		12–13	1850K
		14–15	1900K
		16–17	1950K
		18–19	2000K
		20–21	2050K
		22–23	2100K
		24–25	2150K
		26–27	2200K
		28–29	2250K
		30–31	2300K
		32–33	2350K
		34–35	2400K
		36–37	2450K
		38–39	2500K
		40–41	2550K
		42–43	2600K
		44–45	2650K
		46–47	2700K
		48–49	2750K
		50–51	2800K
		52–53	2850K
		54–55	2900K
		56–57	2950K
		58–59	3000K
		60–61	3050K
		62–63	3100K
		64–65	3150K
		66–67	3200K
		68–69	3250K
		70–71	3300K
		72–73	3350K
		74–75	3400K
		76–77	3450K

CH	Function	DMX	Description
2	Color Temperature 1 (continued)	78–79	3500K
		80–81	3550K
		82–83	3600K
		84–85	3650K
		86–87	3700K
		88–89	3750K
		90–91	3800K
		92–93	3850K
		94–95	3900K
		96–97	3950K
		98–99	4000K
		100–101	4050K
		102–103	4100K
		104–105	4150K
		106–107	4200K
		108–109	4250K
		110–111	4300K
		112–113	4350K
		114–115	4400K
		116–117	4450K
		118–119	4500K
		120–121	4550K
		122–123	4600K
		124–125	4650K
		126–127	4700K
		128–129	4750K
		130–131	4800K
		132–133	4850K
		134–135	4900K
		136–137	4950K
		138–139	5000K
		140–141	5050K
		142–143	5100K
		144–145	5150K
		146–147	5200K
		148–149	5250K
		150–151	5300K
		152–153	5350K
		154–155	5400K
		156–157	5450K
		158–159	5500K

CH	Function	DMX	Description
2	Color Temperature 1 (continued)	160–161	5550K
		162–163	5600K
		164–165	5650K
		166–167	5700K
		168–169	5750K
		170–171	5800K
		172–173	5850K
		174–175	5900K
		176–177	5950K
		178–179	6000K
		180–181	6250K
		182–183	6500K
		184–185	6750K
		186–187	7000K
		188–189	7250K
		190–191	7500K
		192–193	7750K
		194–195	8000K
		196–197	8250K
		198–199	8500K
		200–201	8750K
		202–203	9000K
		204–205	9250K
		206–207	9500K
		208–209	9750K
		210–211	10000K
		212–213	11000K
		214–215	12000K
		216–217	13000K
		218–219	14000K
		220–221	15000K
		222–223	16000K
		224–225	17000K
		226–227	18000K
		228–229	19000K
		230–231	20000K
		232–255	No function
3	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
4	Color Temperature 2	0–7	Open
		8–9	1750K (1750–1832 K)
		10–11	1800K

CH	Function	DMX	Description
4	Color Temperature 2 (continued)	12–13	1850K
		14–15	1900K
		16–17	1950K
		18–19	2000K
		20–21	2050K
		22–23	2100K
		24–25	2150K
		26–27	2200K
		28–29	2250K
		30–31	2300K
		32–33	2350K
		34–35	2400K
		36–37	2450K
		38–39	2500K
		40–41	2550K
		42–43	2600K
		44–45	2650K
		46–47	2700K
		48–49	2750K
		50–51	2800K
		52–53	2850K
		54–55	2900K
		56–57	2950K
		58–59	3000K
		60–61	3050K
		62–63	3100K
		64–65	3150K
		66–67	3200K
		68–69	3250K
		70–71	3300K
		72–73	3350K
		74–75	3400K
		76–77	3450K
		78–79	3500K
		80–81	3550K
		82–83	3600K
		84–85	3650K
		86–87	3700K
		88–89	3750K
		90–91	3800K
		92–93	3850K

CH	Function	DMX	Description
4	Color Temperature 2 (continued)	94–95	3900K
		96–97	3950K
		98–99	4000K
		100–101	4050K
		102–103	4100K
		104–105	4150K
		106–107	4200K
		108–109	4250K
		110–111	4300K
		112–113	4350K
		114–115	4400K
		116–117	4450K
		118–119	4500K
		120–121	4550K
		122–123	4600K
		124–125	4650K
		126–127	4700K
		128–129	4750K
		130–131	4800K
		132–133	4850K
		134–135	4900K
		136–137	4950K
		138–139	5000K
		140–141	5050K
		142–143	5100K
		144–145	5150K
		146–147	5200K
		148–149	5250K
		150–151	5300K
		152–153	5350K
		154–155	5400K
		156–157	5450K
		158–159	5500K
		160–161	5550K
		162–163	5600K
		164–165	5650K
		166–167	5700K
		168–169	5750K
		170–171	5800K
		172–173	5850K
		174–175	5900K

CH	Function	DMX	Description
4	Color Temperature 2 (continued)	176–177	5950K
		178–179	6000K
		180–181	6250K
		182–183	6500K
		184–185	6750K
		186–187	7000K
		188–189	7250K
		190–191	7500K
		192–193	7750K
		194–195	8000K
		196–197	8250K
		198–199	8500K
		200–201	8750K
		202–203	9000K
		204–205	9250K
		206–207	9500K
		208–209	9750K
		210–211	10000K
		212–213	11000K
		214–215	12000K
		216–217	13000K
		218–219	14000K
		220–221	15000K
		222–223	16000K
		224–225	17000K
		226–227	18000K
		228–229	19000K
		230–231	20000K
		232–255	No function

Mode 6ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Dimmer 2 above 0; CH 3 Dimmer 3 above 0; CH 4 Dimmer 4 above 0; CH 5 Dimmer 5 above 0; CH 6 Dimmer 6 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Dimmer 2 255, CH 3 Dimmer 3 255, CH 4 Dimmer 4 255, CH 5 Dimmer 5 255, CH 6 Dimmer 6 255.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
3	Dimmer 3	0	Closed
		1–254	Closed … Open
		255	Open
4	Dimmer 4	0	Closed

CH	Function	DMX	Description
4	Dimmer 4 (continued)	1–254	Closed ... Open
		255	Open
5	Dimmer 5	0	Closed
		1–254	Closed ... Open
		255	Open
6	Dimmer 6	0	Closed
		1–254	Closed ... Open
		255	Open

Mode 7chA

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Dimmer 2 above 0; CH 3 Dimmer 3 above 0; CH 4 Dimmer 4 above 0; CH 5 Dimmer 5 above 0; CH 6 Dimmer 6 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Dimmer 2 255, CH 3 Dimmer 3 255, CH 4 Dimmer 4 255, CH 5 Dimmer 5 255, CH 6 Dimmer 6 255.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
3	Dimmer 3		Same as CH 3 in the mode “6ch” (p. 19)
4	Dimmer 4		Same as CH 4 in the mode “6ch” (p. 19)
5	Dimmer 5		Same as CH 5 in the mode “6ch” (p. 20)
6	Dimmer 6		Same as CH 6 in the mode “6ch” (p. 20)
7	Control		Same as CH 2 in the mode “2ch B” (p. 12)

Mode 7chB

If the device receives DMX in this mode but gives no light, check these channels: CH 6 Dimmer 1 above 0; CH 7 Dimmer 2 above 0. 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 Amber 255, CH 5 Lime 255, CH 6 Dimmer 1 255, CH 7 Dimmer 2 255.

CH	Function	DMX	Description
1	Red	0	Min
		1–254	Min ... Max
		255	Max
2	Green	0	Min
		1–254	Min ... Max
		255	Max
3	Blue	0	Min
		1–254	Min ... Max
		255	Max
4	Amber	0	Min
		1–254	Min ... Max
		255	Max
5	Lime	0	Min

CH	Function	DMX	Description
5	Lime (continued)	1–254	Min ... Max
		255	Max
6	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
7	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)

Mode RGBAL

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 Amber 255, CH 5 Lime 255.

CH	Function	DMX	Description
1	Red		Same as CH 1 in the mode “7chB” (p. 20)
2	Green		Same as CH 2 in the mode “7chB” (p. 20)
3	Blue		Same as CH 3 in the mode “7chB” (p. 20)
4	Amber		Same as CH 4 in the mode “7chB” (p. 20)
5	Lime		Same as CH 5 in the mode “7chB” (p. 20)

Mode 11ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Shutter at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 3 Dimmer 2 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Shutter 255, CH 3 Dimmer 2 255, CH 4 Red 255, CH 5 Green 255, CH 6 Blue 255, CH 7 Amber 255, CH 8 Lime 255, CH 9 Color Macro 0.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Shutter	0–4	Open
		5	Strobe Slow
		6–24	Strobe Slow ... Strobe Med
		25	Strobe Med
		26–43	Strobe Med ... Strobe Fast
		44	Strobe Fast
		45–46	Open 1
		47	Pulse Open Slow
		48–66	Pulse Open Slow ... Pulse Open Med
		67	Pulse Open Med
		68–85	Pulse Open Med ... Pulse Open Fast
		86	Pulse Open Fast
		87–88	Open 2
		89	Pulse Close Slow
		90–108	Pulse Close Slow ... Pulse Close Med
		109	Pulse Close Med
		110–127	Pulse Close Med ... Pulse Close Fast
		128	Pulse Close Fast
		129–130	Open

CH	Function	DMX	Description
2	Shutter (continued)	131	RanStrobe Slow
		132–150	RanStrobe Slow ... RanStrobe Med
		151	RanStrobe Med
		152–169	RanStrobe Med ... RanStrobe Fast
		170	RanStrobe Fast
		171–172	Open 4
		173	Random Sin Slow
		174–192	Random Sin Slow ... Random Sin Med
		193	Random Sin Med
		194–211	Random Sin Med ... Random Sin Fast
		212	Random Sin Fast
		213–214	Open
		215	Spike: Min
		216–253	Spike: Min ... Max
		254	Spike: Max
		255	Open 6
3	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
4	Red		Same as CH 1 in the mode “7chB” (p. 20)
5	Green		Same as CH 2 in the mode “7chB” (p. 20)
6	Blue		Same as CH 3 in the mode “7chB” (p. 20)
7	Amber		Same as CH 4 in the mode “7chB” (p. 20)
8	Lime		Same as CH 5 in the mode “7chB” (p. 20)
9	Color Macro	0–1	Open
		2–3	Col 1
		4–5	Col 2
		6–7	Col 3
		8–9	Col 4
		10–11	Col 5
		12–13	Col 6
		14–15	Col 7
		16–17	Col 8
		18–19	Col 9
		20–21	Col 10
		22–23	Col 11
		24–25	Col 12
		26–27	Col 13
		28–29	Col 14
		30–31	Col 15
		32–33	Col 16
		34–35	Col 17
		36–37	Col 18

CH	Function	DMX	Description
9	Color Macro (continued)	38–39	Col 19
		40–41	Col 20
		42–43	Col 21
		44–45	Col 22
		46–47	Col 23
		48–49	Col 24
		50–51	Col 25
		52–53	Col 26
		54–55	Col 27
		56–57	Col 28
		58–59	Col 29
		60–61	Col 30
		62–63	Col 31
		64–65	Col 32
		66–67	Col 33
		68–69	Col 34
		70–71	Col 35
		72–73	Col 36
		74–75	Col 37
		76–77	Col 38
		78–79	Col 39
		80–81	Col 40
		82–83	Col 41
		84–85	Col 42
		86–87	Col 43
		88–89	Col 44
		90–91	Col 45
		92–93	Col 46
		94–95	Col 47
		96–97	Col 48
		98–99	Col 49
		100–101	Col 50
		102–103	Col 51
		104–105	Col 52
		106–107	Col 53
		108–109	Col 54
		110–111	Col 55
		112–113	Col 56
		114–115	Col 57
		116–117	Col 58
		118–119	Col 59

CH	Function	DMX	Description
9	Color Macro (continued)	120–121	Col 60
		122–123	Col 61
		124–125	Col 62
		126–127	Col 63
		128–129	Col 64
		130–131	Col 65
		132–133	Col 66
		134–135	Col 67
		136–137	Col 68
		138–139	Col 69
		140–141	Col 70
		142–143	Col 71
		144–145	Col 72
		146–147	Col 73
		148–149	Col 74
		150–151	Col 75
		152–153	Col 76
		154–155	Col 77
		156–157	Col 78
		158–159	Col 79
		160–161	Col 80
		162–163	Col 81
		164–165	Col 82
		166–167	Col 83
		168–169	Col 84
		170–171	Col 85
		172–173	Col 86
		174–175	Col 87
		176–177	Col 88
		178–179	Col 89
		180–181	Col 90
		182–183	Col 91
		184–185	Col 92
		186–187	Col 93
		188–189	Col 94
		190–191	Col 95
		192–193	Col 96
		194–195	Col 97
		196–197	Col 98
		198–199	Col 99
		200–201	Col 100

CH	Function	DMX	Description
9	Color Macro (continued)	202–203	Col 101
		204–205	Col 102
		206–207	Col 103
		208–209	Col 104
		210–211	Col 105
		212–213	Col 106
		214–215	Col 107
		216–217	Col 108
		218–219	Col 109
		220–221	Col 110
		222–223	Col 111
		224–255	No function
10	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
11	CTC<>RGB	0	CTC
		1–254	CTC ... RGB
		255	RGB

Mode 13ch A

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Shutter at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 3 Dimmer 2 above 0; CH 10 Dimmer 3 above 0; CH 11 Dimmer 4 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Shutter 255, CH 3 Dimmer 2 255, CH 4 Red 255, CH 5 Green 255, CH 6 Blue 255, CH 7 Amber 255, CH 8 Lime 255, CH 9 Color Macro 0, CH 10 Dimmer 3 255, CH 11 Dimmer 4 255.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Shutter		Same as CH 2 in the mode “11ch” (p. 21)
3	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
4	Red		Same as CH 1 in the mode “7chB” (p. 20)
5	Green		Same as CH 2 in the mode “7chB” (p. 20)
6	Blue		Same as CH 3 in the mode “7chB” (p. 20)
7	Amber		Same as CH 4 in the mode “7chB” (p. 20)
8	Lime		Same as CH 5 in the mode “7chB” (p. 20)
9	Color Macro		Same as CH 9 in the mode “11ch” (p. 22)
10	Dimmer 3		Same as CH 3 in the mode “6ch” (p. 19)
11	Dimmer 4		Same as CH 4 in the mode “6ch” (p. 19)
12	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
13	CTC<>RGB	0–7	Open
		8–231	Empty Channel Set (1750–20000 K)
		232–255	No function

Mode 13ch B

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Shutter at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 4 Dimmer 2 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Shutter 255, CH 4 Dimmer 2 255, CH 5 Red 255, CH 6 Green 255, CH 7 Blue 255, CH 8 Amber 255, CH 9 Lime 255, CH 10 Color Macro 0.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Shutter		Same as CH 2 in the mode “11ch” (p. 21)
3	Strobe Duration	0	0ms
		1–127	0ms ... 256ms
		128	256ms
		129–254	256ms ... 510ms
		255	510ms
4	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
5	Red		Same as CH 1 in the mode “7chB” (p. 20)
6	Green		Same as CH 2 in the mode “7chB” (p. 20)
7	Blue		Same as CH 3 in the mode “7chB” (p. 20)
8	Amber		Same as CH 4 in the mode “7chB” (p. 20)
9	Lime		Same as CH 5 in the mode “7chB” (p. 20)
10	Color Macro		Same as CH 9 in the mode “11ch” (p. 22)
11	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
12	Control		Same as CH 2 in the mode “2ch B” (p. 12)
13	CTC<>RGB		Same as CH 11 in the mode “11ch” (p. 25)

Mode 20ch A

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Shutter 1 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 4 Dimmer 2 above 0; CH 12 Dimmer 3 above 0; CH 13 Shutter 2 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 14 Dimmer 4 above 0; CH 15 Dimmer 5 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Shutter 1 255, CH 4 Dimmer 2 255, CH 5 Red 255, CH 6 Green 255, CH 7 Blue 255, CH 8 Amber 255, CH 9 Lime 255, CH 12 Dimmer 3 255, CH 13 Shutter 2 255, CH 14 Dimmer 4 255, CH 15 Dimmer 5 255.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Shutter 1	0–4	Open
		5	Strobe Slow
		6–24	Strobe Slow ... Strobe Med
		25	Strobe Med
		26–43	Strobe Med ... Strobe Fast
		44	Strobe Fast
		45–46	Open 1
		47	Pulse Open Slow
		48–66	Pulse Open Slow ... Pulse Open Med

CH	Function	DMX	Description
2	Shutter 1 (continued)	67	Pulse Open Med
		68–85	Pulse Open Med ... Pulse Open Fast
		86	Pulse Open Fast
		87–88	Open 2
		89	Pulse Close Slow
		90–108	Pulse Close Slow ... Pulse Close Med
		109	Pulse Close Med
		110–127	Pulse Close Med ... Pulse Close Fast
		128	Pulse Close Fast
		129–130	Open
		131	RanStrobe Slow
		132–150	RanStrobe Slow ... RanStrobe Med
		151	RanStrobe Med
		152–169	RanStrobe Med ... RanStrobe Fast
		170	RanStrobe Fast
		171–172	Open 4
		173	Random Sin Slow
		174–192	Random Sin Slow ... Random Sin Med
		193	Random Sin Med
		194–211	Random Sin Med ... Random Sin Fast
		212	Random Sin Fast
		213–214	Open
		215	Spike: Min
		216–253	Spike: Min ... Max
		254	Spike: Max
		255	Open 6
3	Strobe Duration		Same as CH 3 in the mode “13ch B” (p. 26)
4	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
5	Red		Same as CH 1 in the mode “7chB” (p. 20)
6	Green		Same as CH 2 in the mode “7chB” (p. 20)
7	Blue		Same as CH 3 in the mode “7chB” (p. 20)
8	Amber		Same as CH 4 in the mode “7chB” (p. 20)
9	Lime		Same as CH 5 in the mode “7chB” (p. 20)
10	Color Macro		Same as CH 9 in the mode “11ch” (p. 22)
11	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
12	Dimmer 3		Same as CH 3 in the mode “6ch” (p. 19)
13	Shutter 2	0–4	Open
		5	Strobe Slow
		6–24	Strobe Slow ... Strobe Med
		25	Strobe Med
		26–43	Strobe Med ... Strobe Fast
		44	Strobe Fast

CH	Function	DMX	Description
13	Shutter 2 (continued)	45–46	Open 1
		47	Pulse Open Slow
		48–66	Pulse Open Slow … Pulse Open Med
		67	Pulse Open Med
		68–85	Pulse Open Med … Pulse Open Fast
		86	Pulse Open Fast
		87–88	Open 2
		89	Pulse Close Slow
		90–108	Pulse Close Slow … Pulse Close Med
		109	Pulse Close Med
		110–127	Pulse Close Med … Pulse Close Fast
		128	Pulse Close Fast
		129–130	Open
		131	RanStrobe Slow
		132–150	RanStrobe Slow … RanStrobe Med
		151	RanStrobe Med
		152–169	RanStrobe Med … RanStrobe Fast
		170	RanStrobe Fast
		171–172	Open 4
		173	Random Sin Slow
		174–192	Random Sin Slow … Random Sin Med
		193	Random Sin Med
		194–211	Random Sin Med … Random Sin Fast
		212	Random Sin Fast
		213–214	Open
		215	Spike: Min
		216–253	Spike: Min … Max
		254	Spike: Max
		255	Open 6
14	Dimmer 4		Same as CH 4 in the mode “6ch” (p. 19)
15	Dimmer 5		Same as CH 5 in the mode “6ch” (p. 20)
16	Effects	0–4	Open
		5–9	Horizontal Chase
		10–14	Bipolar Alternate
		15–19	Ping Pong
		20–24	Inside Out
		25–29	Outside In
		30–34	Sparkle
		35–39	Snake
		40–44	Wave
		45–49	Block Flash
		50–54	Volume Meter

CH	Function	DMX	Description
16	Effects (continued)	55–59	Scroll Loop
		60–64	Explosion
		65–69	Double Wave
		70–74	No Function
		75–79	Horizontal Chase Inv
		80–84	Bipolar Alternate Inv
		85–89	Ping Pong Inv
		90–94	Inside Out Inv
		95–99	Outside In Inv
		100–104	Sparkle Inv
		105–109	Snake Inv
		110–114	Wave Inv
		115–119	Block Flash Inv
		120–124	Volume Meter Inv
		125–129	Scroll Loop Inv
		130–134	Explosion Inv
		135–139	Double Wave Inv
		140–255	No function
17	Effects Speed	0	CW Slow
		1–62	CW Slow ... CW Med
		63	CW Med
		64–125	CW Med ... CW Fast
		126	CW Fast
		127–128	Stop
		129	CCW Slow
		130–191	CCW Slow ... CCW Med
		192	CCW Med
		193–254	CCW Med ... CCW Fast
		255	CCW Fast
18	Effects Fade	0	No fade
		1–4	No fade ... Fade Min
		5	Fade Min
		6–254	Fade Min ... Fade Max
		255	Fade Max
19	Control		Same as CH 2 in the mode “2ch B” (p. 12)
20	CTC<>RGB		Same as CH 11 in the mode “11ch” (p. 25)

Mode 20ch B

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 3 Shutter at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 5 Dimmer 2 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 3 Shutter 255, CH 5 Dimmer 2 255, CH 7 Red 255, CH 9 Green 255, CH 11 Blue 255, CH 13 Amber 255, CH 15 Lime 255, CH 17 Color Macro 0.

CH	Function	DMX	Description
1	Dimmer 1	0–255	Closed ... Open
		255	Open
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Shutter		Same as CH 2 in the mode “11ch” (p. 21)
4	Strobe Duration		Same as CH 3 in the mode “13ch B” (p. 26)
5	Dimmer 2	0–255	Closed ... Open
		255	Open
6	Dimmer 2 Fine	0–255	Fine adjustment of CH 5
7	Red	0–255	Min ... Max
		255	Max
8	Red Fine	0–255	Fine adjustment of CH 7
9	Green	0–255	Min ... Max
		255	Max
10	Green Fine	0–255	Fine adjustment of CH 9
11	Blue	0–255	Min ... Max
		255	Max
12	Blue Fine	0–255	Fine adjustment of CH 11
13	Amber	0–255	Min ... Max
		255	Max
14	Amber Fine	0–255	Fine adjustment of CH 13
15	Lime	0–255	Min ... Max
		255	Max
16	Lime Fine	0–255	Fine adjustment of CH 15
17	Color Macro		Same as CH 9 in the mode “11ch” (p. 22)
18	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
19	Control		Same as CH 2 in the mode “2ch B” (p. 12)
20	CTC<>RGB		Same as CH 11 in the mode “11ch” (p. 25)

Mode 21ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Shutter at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 4 Dimmer 2 above 0; CH 5 Dimmer 3 above 0; CH 6 Dimmer 4 above 0; CH 12 Dimmer 5 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Shutter 255, CH 4 Dimmer 2 255, CH 5 Dimmer 3 255, CH 6 Dimmer 4 255, CH 7 Red 1 255, CH 8 Green 1 255, CH 9 Blue 1 255, CH 10 Amber 1 255, CH 11 Lime 1 255, CH 12 Dimmer 5 255, CH 13 Red 2 255, CH 14 Green 2 255, CH 15 Blue 2 255, CH 16 Amber 2 255, CH 17 Lime 2 255, CH 18 Color Macro 0.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Shutter		Same as CH 2 in the mode “11ch” (p. 21)
3	Strobe Duration		Same as CH 3 in the mode “13ch B” (p. 26)
4	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
5	Dimmer 3		Same as CH 3 in the mode “6ch” (p. 19)
6	Dimmer 4		Same as CH 4 in the mode “6ch” (p. 19)
7	Red 1	0	Min
		1–254	Min … Max
		255	Max
8	Green 1	0	Min
		1–254	Min … Max
		255	Max
9	Blue 1	0	Min
		1–254	Min … Max
		255	Max
10	Amber 1	0	Min
		1–254	Min … Max
		255	Max
11	Lime 1	0	Min
		1–254	Min … Max
		255	Max
12	Dimmer 5		Same as CH 5 in the mode “6ch” (p. 20)
13	Red 2	0	Min
		1–254	Min … Max
		255	Max
14	Green 2	0	Min
		1–254	Min … Max
		255	Max
15	Blue 2	0	Min
		1–254	Min … Max
		255	Max
16	Amber 2	0	Min
		1–254	Min … Max
		255	Max

CH	Function	DMX	Description
17	Lime 2	0	Min
		1–254	Min ... Max
		255	Max
18	Color Macro		Same as CH 9 in the mode “11ch” (p. 22)
19	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
20	Control		Same as CH 2 in the mode “2ch B” (p. 12)
21	CTC<>RGB		Same as CH 11 in the mode “11ch” (p. 25)

Mode 27ch

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 3 Shutter 1 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 5 Dimmer 2 above 0; CH 19 Dimmer 3 above 0; CH 20 Shutter 2 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 21 Dimmer 4 above 0; CH 22 Dimmer 5 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 3 Shutter 1 255, CH 5 Dimmer 2 255, CH 7 Red 255, CH 9 Green 255, CH 11 Blue 255, CH 13 Amber 255, CH 15 Lime 255, CH 17 Color Macro 0, CH 19 Dimmer 3 255, CH 20 Shutter 2 255, CH 21 Dimmer 4 255, CH 22 Dimmer 5 255.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “20ch B” (p. 30)
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Shutter 1		Same as CH 2 in the mode “20ch A” (p. 26)
4	Strobe Duration		Same as CH 3 in the mode “13ch B” (p. 26)
5	Dimmer 2		Same as CH 5 in the mode “20ch B” (p. 30)
6	Dimmer 2 Fine	0–255	Fine adjustment of CH 5
7	Red		Same as CH 7 in the mode “20ch B” (p. 30)
8	Red Fine	0–255	Fine adjustment of CH 7
9	Green		Same as CH 9 in the mode “20ch B” (p. 30)
10	Green Fine	0–255	Fine adjustment of CH 9
11	Blue		Same as CH 11 in the mode “20ch B” (p. 30)
12	Blue Fine	0–255	Fine adjustment of CH 11
13	Amber		Same as CH 13 in the mode “20ch B” (p. 30)
14	Amber Fine	0–255	Fine adjustment of CH 13
15	Lime		Same as CH 15 in the mode “20ch B” (p. 30)
16	Lime Fine	0–255	Fine adjustment of CH 15
17	Color Macro		Same as CH 9 in the mode “11ch” (p. 22)
18	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
19	Dimmer 3		Same as CH 3 in the mode “6ch” (p. 19)
20	Shutter 2		Same as CH 13 in the mode “20ch A” (p. 27)
21	Dimmer 4		Same as CH 4 in the mode “6ch” (p. 19)
22	Dimmer 5		Same as CH 5 in the mode “6ch” (p. 20)
23	Effects		Same as CH 16 in the mode “20ch A” (p. 28)
24	Effects Speed		Same as CH 17 in the mode “20ch A” (p. 29)

CH	Function	DMX	Description
25	Effects Fade		Same as CH 18 in the mode “20ch A” (p. 29)
26	Control		Same as CH 2 in the mode “2ch B” (p. 12)
27	CTC<>RGB		Same as CH 11 in the mode “11ch” (p. 25)

Mode 28ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Shutter 1 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 4 Dimmer 2 above 0; CH 5 Dimmer 3 above 0; CH 6 Dimmer 4 above 0; CH 12 Dimmer 5 above 0; CH 20 Dimmer 6 above 0; CH 21 Shutter 2 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 22 Dimmer 7 above 0; CH 23 Dimmer 8 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Shutter 1 255, CH 4 Dimmer 2 255, CH 5 Dimmer 3 255, CH 6 Dimmer 4 255, CH 7 Red 1 255, CH 8 Green 1 255, CH 9 Blue 1 255, CH 10 Amber 1 255, CH 11 Lime 1 255, CH 12 Dimmer 5 255, CH 13 Red 2 255, CH 14 Green 2 255, CH 15 Blue 2 255, CH 16 Amber 2 255, CH 17 Lime 2 255, CH 18 Color Macro 0, CH 20 Dimmer 6 255, CH 21 Shutter 2 255, CH 22 Dimmer 7 255, CH 23 Dimmer 8 255.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Shutter 1		Same as CH 2 in the mode “20ch A” (p. 26)
3	Strobe Duration		Same as CH 3 in the mode “13ch B” (p. 26)
4	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
5	Dimmer 3		Same as CH 3 in the mode “6ch” (p. 19)
6	Dimmer 4		Same as CH 4 in the mode “6ch” (p. 19)
7	Red 1		Same as CH 7 in the mode “21ch” (p. 31)
8	Green 1		Same as CH 8 in the mode “21ch” (p. 31)
9	Blue 1		Same as CH 9 in the mode “21ch” (p. 31)
10	Amber 1		Same as CH 10 in the mode “21ch” (p. 31)
11	Lime 1		Same as CH 11 in the mode “21ch” (p. 31)
12	Dimmer 5		Same as CH 5 in the mode “6ch” (p. 20)
13	Red 2		Same as CH 13 in the mode “21ch” (p. 31)
14	Green 2		Same as CH 14 in the mode “21ch” (p. 31)
15	Blue 2		Same as CH 15 in the mode “21ch” (p. 31)
16	Amber 2		Same as CH 16 in the mode “21ch” (p. 31)
17	Lime 2		Same as CH 17 in the mode “21ch” (p. 32)
18	Color Macro		Same as CH 9 in the mode “11ch” (p. 22)
19	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
20	Dimmer 6		Same as CH 6 in the mode “6ch” (p. 20)
21	Shutter 2		Same as CH 13 in the mode “20ch A” (p. 27)
22	Dimmer 7	0	Closed
		1–254	Closed ... Open
		255	Open
23	Dimmer 8	0	Closed
		1–254	Closed ... Open

CH	Function	DMX	Description
23	Dimmer 8 (continued)	255	Open
24	Effects		Same as CH 16 in the mode “20ch A” (p. 28)
25	Effects Speed		Same as CH 17 in the mode “20ch A” (p. 29)
26	Effects Fade		Same as CH 18 in the mode “20ch A” (p. 29)
27	Control		Same as CH 2 in the mode “2ch B” (p. 12)
28	CTC<>RGB		Same as CH 11 in the mode “11ch” (p. 25)

Mode 32ch

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 3 Shutter at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 5 Dimmer 2 above 0; CH 7 Dimmer 3 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 3 Shutter 255, CH 5 Dimmer 2 255, CH 7 Dimmer 3 255, CH 9 Red 1 255, CH 11 Green 1 255, CH 13 Blue 1 255, CH 15 Amber 1 255, CH 17 Lime 1 255, CH 19 Red 2 255, CH 21 Green 2 255, CH 23 Blue 2 255, CH 25 Amber 2 255, CH 27 Lime 2 255, CH 29 Color Macro 0.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “20ch B” (p. 30)
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Shutter		Same as CH 2 in the mode “11ch” (p. 21)
4	Strobe Duration		Same as CH 3 in the mode “13ch B” (p. 26)
5	Dimmer 2		Same as CH 5 in the mode “20ch B” (p. 30)
6	Dimmer 2 Fine	0–255	Fine adjustment of CH 5
7	Dimmer 3	0–255	Closed … Open
		255	Open
8	Dimmer 3 Fine	0–255	Fine adjustment of CH 7
9	Red 1	0–255	Min … Max
		255	Max
10	Red 1 Fine	0–255	Fine adjustment of CH 9
11	Green 1	0–255	Min … Max
		255	Max
12	Green 1 Fine	0–255	Fine adjustment of CH 11
13	Blue 1	0–255	Min … Max
		255	Max
14	Blue 1 Fine	0–255	Fine adjustment of CH 13
15	Amber 1	0–255	Min … Max
		255	Max
16	Amber 1 Fine	0–255	Fine adjustment of CH 15
17	Lime 1	0–255	Min … Max
		255	Max
18	Lime 1 Fine	0–255	Fine adjustment of CH 17
19	Red 2	0–255	Min … Max
		255	Max

CH	Function	DMX	Description
20	Red 2 Fine	0–255	Fine adjustment of CH 19
21	Green 2	0–255	Min ... Max
		255	Max
22	Green 2 Fine	0–255	Fine adjustment of CH 21
23	Blue 2	0–255	Min ... Max
		255	Max
24	Blue 2 Fine	0–255	Fine adjustment of CH 23
25	Amber 2	0–255	Min ... Max
		255	Max
26	Amber 2 Fine	0–255	Fine adjustment of CH 25
27	Lime 2	0–255	Min ... Max
		255	Max
28	Lime 2 Fine	0–255	Fine adjustment of CH 27
29	Color Macro		Same as CH 9 in the mode “11ch” (p. 22)
30	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
31	Control		Same as CH 2 in the mode “2ch B” (p. 12)
32	CTC<>RGB		Same as CH 11 in the mode “11ch” (p. 25)

Mode 37ch

If the device receives DMX in this mode but gives no light, check these channels: CH 6 Dimmer above 0 (the same in each of the 32 cells). 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 Amber 255, CH 5 Lime 255, CH 6 Dimmer 255 (the same in each of the 32 cells).

CH	Function	DMX	Description
1	Red		Same as CH 1 in the mode “7chB” (p. 20)
2	Green		Same as CH 2 in the mode “7chB” (p. 20)
3	Blue		Same as CH 3 in the mode “7chB” (p. 20)
4	Amber		Same as CH 4 in the mode “7chB” (p. 20)
5	Lime		Same as CH 5 in the mode “7chB” (p. 20)
6	Dimmer 1	0	Closed
		1–254	Closed ... Open
		255	Open

CH 6–37: 32 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 6); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	6	2	7	3	8	4	9	5	10	6	11
7	12	8	13	9	14	10	15	11	16	12	17
13	18	14	19	15	20	16	21	17	22	18	23
19	24	20	25	21	26	22	27	23	28	24	29
25	30	26	31	27	32	28	33	29	34	30	35
31	36	32	37								

Mode 39ch

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 3 Shutter 1 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 5 Dimmer 2 above 0; CH 7 Dimmer 3 above 0; CH 31 Dimmer 4 above 0; CH 32 Shutter 2 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 33 Dimmer 5 above 0; CH 34 Dimmer 6 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 3 Shutter 1 255, CH 5 Dimmer 2 255, CH 7 Dimmer 3 255, CH 9 Red 1 255, CH 11 Green 1 255, CH 13 Blue 1 255, CH 15 Amber 1 255, CH 17 Lime 1 255, CH 19 Red 2 255, CH 21 Green 2 255, CH 23 Blue 2 255, CH 25 Amber 2 255, CH 27 Lime 2 255, CH 29 Color Macro 0, CH 31 Dimmer 4 255, CH 32 Shutter 2 255, CH 33 Dimmer 5 255, CH 34 Dimmer 6 255.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “20ch B” (p. 30)
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Shutter 1		Same as CH 2 in the mode “20ch A” (p. 26)
4	Strobe Duration		Same as CH 3 in the mode “13ch B” (p. 26)
5	Dimmer 2		Same as CH 5 in the mode “20ch B” (p. 30)
6	Dimmer 2 Fine	0–255	Fine adjustment of CH 5
7	Dimmer 3		Same as CH 7 in the mode “32ch” (p. 34)
8	Dimmer 3 Fine	0–255	Fine adjustment of CH 7
9	Red 1		Same as CH 9 in the mode “32ch” (p. 34)
10	Red 1 Fine	0–255	Fine adjustment of CH 9
11	Green 1		Same as CH 11 in the mode “32ch” (p. 34)
12	Green 1 Fine	0–255	Fine adjustment of CH 11
13	Blue 1		Same as CH 13 in the mode “32ch” (p. 34)
14	Blue 1 Fine	0–255	Fine adjustment of CH 13
15	Amber 1		Same as CH 15 in the mode “32ch” (p. 34)
16	Amber 1 Fine	0–255	Fine adjustment of CH 15
17	Lime 1		Same as CH 17 in the mode “32ch” (p. 34)
18	Lime 1 Fine	0–255	Fine adjustment of CH 17
19	Red 2		Same as CH 19 in the mode “32ch” (p. 34)
20	Red 2 Fine	0–255	Fine adjustment of CH 19
21	Green 2		Same as CH 21 in the mode “32ch” (p. 35)
22	Green 2 Fine	0–255	Fine adjustment of CH 21
23	Blue 2		Same as CH 23 in the mode “32ch” (p. 35)
24	Blue 2 Fine	0–255	Fine adjustment of CH 23
25	Amber 2		Same as CH 25 in the mode “32ch” (p. 35)
26	Amber 2 Fine	0–255	Fine adjustment of CH 25
27	Lime 2		Same as CH 27 in the mode “32ch” (p. 35)
28	Lime 2 Fine	0–255	Fine adjustment of CH 27
29	Color Macro		Same as CH 9 in the mode “11ch” (p. 22)
30	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
31	Dimmer 4		Same as CH 4 in the mode “6ch” (p. 19)

CH	Function	DMX	Description
32	Shutter 2		Same as CH 13 in the mode “20ch A” (p. 27)
33	Dimmer 5		Same as CH 5 in the mode “6ch” (p. 20)
34	Dimmer 6		Same as CH 6 in the mode “6ch” (p. 20)
35	Effects		Same as CH 16 in the mode “20ch A” (p. 28)
36	Effects Speed		Same as CH 17 in the mode “20ch A” (p. 29)
37	Effects Fade		Same as CH 18 in the mode “20ch A” (p. 29)
38	Control		Same as CH 2 in the mode “2ch B” (p. 12)
39	CTC<>RGB		Same as CH 11 in the mode “11ch” (p. 25)

Mode 42ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Shutter 1 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 4 Dimmer 2 above 0; CH 5 Dimmer 3 above 0; CH 6 Dimmer 4 above 0; CH 12 Dimmer 5 above 0; CH 20 Dimmer 6 above 0; CH 21 Shutter 2 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 22 Dimmer above 0 (the same in each of the 16 cells). The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Shutter 1 255, CH 4 Dimmer 2 255, CH 5 Dimmer 3 255, CH 6 Dimmer 4 255, CH 7 Red 1 255, CH 8 Green 1 255, CH 9 Blue 1 255, CH 10 Amber 1 255, CH 11 Lime 1 255, CH 12 Dimmer 5 255, CH 13 Red 2 255, CH 14 Green 2 255, CH 15 Blue 2 255, CH 16 Amber 2 255, CH 17 Lime 2 255, CH 18 Color Macro 0, CH 20 Dimmer 6 255, CH 21 Shutter 2 255, CH 22 Dimmer 255 (the same in each of the 16 cells).

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Shutter 1		Same as CH 2 in the mode “20ch A” (p. 26)
3	Strobe Duration		Same as CH 3 in the mode “13ch B” (p. 26)
4	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
5	Dimmer 3		Same as CH 3 in the mode “6ch” (p. 19)
6	Dimmer 4		Same as CH 4 in the mode “6ch” (p. 19)
7	Red 1		Same as CH 7 in the mode “21ch” (p. 31)
8	Green 1		Same as CH 8 in the mode “21ch” (p. 31)
9	Blue 1		Same as CH 9 in the mode “21ch” (p. 31)
10	Amber 1		Same as CH 10 in the mode “21ch” (p. 31)
11	Lime 1		Same as CH 11 in the mode “21ch” (p. 31)
12	Dimmer 5		Same as CH 5 in the mode “6ch” (p. 20)
13	Red 2		Same as CH 13 in the mode “21ch” (p. 31)
14	Green 2		Same as CH 14 in the mode “21ch” (p. 31)
15	Blue 2		Same as CH 15 in the mode “21ch” (p. 31)
16	Amber 2		Same as CH 16 in the mode “21ch” (p. 31)
17	Lime 2		Same as CH 17 in the mode “21ch” (p. 32)
18	Color Macro		Same as CH 9 in the mode “11ch” (p. 22)
19	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
20	Dimmer 6		Same as CH 6 in the mode “6ch” (p. 20)
21	Shutter 2		Same as CH 13 in the mode “20ch A” (p. 27)
22	Dimmer 7	0	Closed
		1–254	Closed ... Open

CH	Function	DMX	Description
22	Dimmer 7 (continued)	255	Open
38	Effects		Same as CH 16 in the mode “20ch A” (p. 28)
39	Effects Speed		Same as CH 17 in the mode “20ch A” (p. 29)
40	Effects Fade		Same as CH 18 in the mode “20ch A” (p. 29)
41	Control		Same as CH 2 in the mode “2ch B” (p. 12)
42	CTC<>RGB		Same as CH 11 in the mode “11ch” (p. 25)

CH 22–37: 16 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 22); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	22	2	23	3	24	4	25	5	26	6	27
7	28	8	29	9	30	10	31	11	32	12	33
13	34	14	35	15	36	16	37				

Mode 46ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Dimmer 2 above 0; CH 13 Dimmer above 0 (the same in each of the 32 cells). The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Dimmer 2 255, CH 3 Red 1 255, CH 4 Green 1 255, CH 5 Blue 1 255, CH 6 Amber 1 255, CH 7 Lime 1 255, CH 8 Red 2 255, CH 9 Green 2 255, CH 10 Blue 2 255, CH 11 Amber 2 255, CH 12 Lime 2 255, CH 13 Dimmer 255 (the same in each of the 32 cells).

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “2ch A” (p. 12)
2	Dimmer 2		Same as CH 2 in the mode “2ch A” (p. 12)
3	Red 1		Same as CH 7 in the mode “21ch” (p. 31)
4	Green 1		Same as CH 8 in the mode “21ch” (p. 31)
5	Blue 1		Same as CH 9 in the mode “21ch” (p. 31)
6	Amber 1		Same as CH 10 in the mode “21ch” (p. 31)
7	Lime 1		Same as CH 11 in the mode “21ch” (p. 31)
8	Red 2		Same as CH 13 in the mode “21ch” (p. 31)
9	Green 2		Same as CH 14 in the mode “21ch” (p. 31)
10	Blue 2		Same as CH 15 in the mode “21ch” (p. 31)
11	Amber 2		Same as CH 16 in the mode “21ch” (p. 31)
12	Lime 2		Same as CH 17 in the mode “21ch” (p. 32)
13	Dimmer 3	0	Closed
		1–254	Closed ... Open
		255	Open
45	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
46	CTC<>RGB		Same as CH 11 in the mode “11ch” (p. 25)

CH 13–44: 32 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 13); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	13	2	14	3	15	4	16	5	17	6	18
7	19	8	20	9	21	10	22	11	23	12	24
13	25	14	26	15	27	16	28	17	29	18	30
19	31	20	32	21	33	22	34	23	35	24	36
25	37	26	38	27	39	28	40	29	41	30	42
31	43	32	44								

Mode 53ch

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 3 Shutter 1 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 5 Dimmer 2 above 0; CH 7 Dimmer 3 above 0; CH 31 Dimmer 4 above 0; CH 32 Shutter 2 at 0–4, 129–130, 213–214 “Open” or 45–46 or 87–88 or 171–172 or 255; CH 33 Dimmer above 0 (the same in each of the 16 cells). The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 3 Shutter 1 255, CH 5 Dimmer 2 255, CH 7 Dimmer 3 255, CH 9 Red 1 255, CH 11 Green 1 255, CH 13 Blue 1 255, CH 15 Amber 1 255, CH 17 Lime 1 255, CH 19 Red 2 255, CH 21 Green 2 255, CH 23 Blue 2 255, CH 25 Amber 2 255, CH 27 Lime 2 255, CH 29 Color Macro 0, CH 31 Dimmer 4 255, CH 32 Shutter 2 255, CH 33 Dimmer 255 (the same in each of the 16 cells).

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “20ch B” (p. 30)
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Shutter 1		Same as CH 2 in the mode “20ch A” (p. 26)
4	Strobe Duration		Same as CH 3 in the mode “13ch B” (p. 26)
5	Dimmer 2		Same as CH 5 in the mode “20ch B” (p. 30)
6	Dimmer 2 Fine	0–255	Fine adjustment of CH 5
7	Dimmer 3		Same as CH 7 in the mode “32ch” (p. 34)
8	Dimmer 3 Fine	0–255	Fine adjustment of CH 7
9	Red 1		Same as CH 9 in the mode “32ch” (p. 34)
10	Red 1 Fine	0–255	Fine adjustment of CH 9
11	Green 1		Same as CH 11 in the mode “32ch” (p. 34)
12	Green 1 Fine	0–255	Fine adjustment of CH 11
13	Blue 1		Same as CH 13 in the mode “32ch” (p. 34)
14	Blue 1 Fine	0–255	Fine adjustment of CH 13
15	Amber 1		Same as CH 15 in the mode “32ch” (p. 34)
16	Amber 1 Fine	0–255	Fine adjustment of CH 15
17	Lime 1		Same as CH 17 in the mode “32ch” (p. 34)
18	Lime 1 Fine	0–255	Fine adjustment of CH 17
19	Red 2		Same as CH 19 in the mode “32ch” (p. 34)
20	Red 2 Fine	0–255	Fine adjustment of CH 19
21	Green 2		Same as CH 21 in the mode “32ch” (p. 35)

CH	Function	DMX	Description
22	Green 2 Fine	0–255	Fine adjustment of CH 21
23	Blue 2		Same as CH 23 in the mode “32ch” (p. 35)
24	Blue 2 Fine	0–255	Fine adjustment of CH 23
25	Amber 2		Same as CH 25 in the mode “32ch” (p. 35)
26	Amber 2 Fine	0–255	Fine adjustment of CH 25
27	Lime 2		Same as CH 27 in the mode “32ch” (p. 35)
28	Lime 2 Fine	0–255	Fine adjustment of CH 27
29	Color Macro		Same as CH 9 in the mode “11ch” (p. 22)
30	Color Temperature		Same as CH 2 in the mode “CTC” (p. 9)
31	Dimmer 4		Same as CH 4 in the mode “6ch” (p. 19)
32	Shutter 2		Same as CH 13 in the mode “20ch A” (p. 27)
33	Dimmer 5	0	Closed
		1–254	Closed ... Open
		255	Open
49	Effects		Same as CH 16 in the mode “20ch A” (p. 28)
50	Effects Speed		Same as CH 17 in the mode “20ch A” (p. 29)
51	Effects Fade		Same as CH 18 in the mode “20ch A” (p. 29)
52	Control		Same as CH 2 in the mode “2ch B” (p. 12)
53	CTC<>RGB		Same as CH 11 in the mode “11ch” (p. 25)

CH 33–48: 16 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 33); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	33	2	34	3	35	4	36	5	37	6	38
7	39	8	40	9	41	10	42	11	43	12	44
13	45	14	46	15	47	16	48				

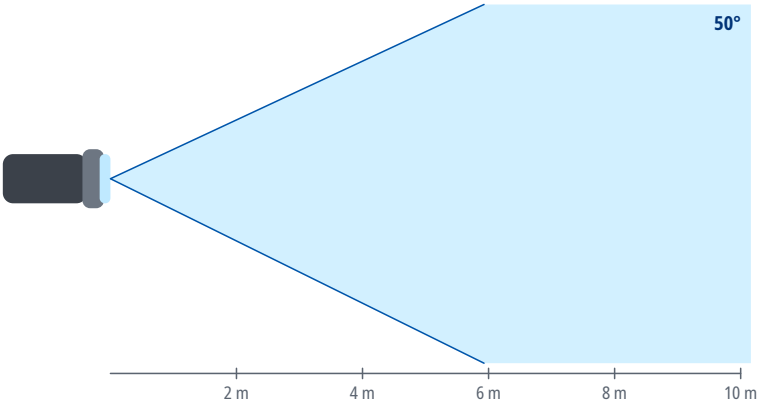
9 Technical specifications

Parameter	Value
Light source	LED
Operating temperature	0 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	1750–20000 K
Strobe frequency	1–20 Hz
Strobe flash duration	0–510 s
LED frequency	1000–25000 Hz

Spot diameter



Distance	Ø 50°
2 m	1.9 m
4 m	3.7 m
6 m	5.6 m
8 m	7.5 m
10 m	9.3 m
15 m	14 m

Spot diameter square to the beam axis, calculated from the beam angle.

10 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.

11 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.

12 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.