DMX REFERENCE

Creamsource Space X

OGSON fixtures



Manufacturer	OGSON fixtures
GDTF file	OGSON_fixtures_Creamsource_Space_X_88938.gdtf
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1 About this manual

This document describes the Creamsource Space X by OGSON fixtures. It was compiled from the GDTF file OGSON_fixtures_Creamsource_Space_X_88938.gdtf from the GDTF-Share library.

File revision: “ogi_v1”.

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 OGSON fixtures; product names and trademarks belong to their owners.

Safety notices are marked with signal words according to the severity of the hazard: DANGER – an imminent hazard that will result in death or serious injury; WARNING – a potential hazard that could result in death or serious injury; CAUTION – a potential hazard that could result in minor injury or property damage; NOTE – additional information for correct and safe use.

> **NOTE** This product is designed for stage and effect lighting. It is not suitable for household room illumination.

2 Quick reference

Parameter	Value
Weight	17.8 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Mode 1: CCT RGBW (10ch) 8 Bit	10	51	1, 11, 21, 31, ...
Mode 2: CCT (4ch) 8 Bit	4	128	1, 5, 9, 13, ...
Mode 3: CCT Hue/Saturation (7ch) 8 Bit	7	73	1, 8, 15, 22, ...
Mode 4: RGBW (7ch) 8 Bit	7	73	1, 8, 15, 22, ...
Mode 5: Hue/Saturation (4ch) 8 Bit	4	128	1, 5, 9, 13, ...
Mode 6: CCT RGBW (19ch) 16 Bit	19	26	1, 20, 39, 58, ...
Mode 7: CCT (7ch) 16 Bit	7	73	1, 8, 15, 22, ...
Mode 8: CCT Hue/Saturation (13ch) 16 Bit	13	39	1, 14, 27, 40, ...
Mode 9: RGBW (13ch) 16 Bit	13	39	1, 14, 27, 40, ...
Mode 10: Hue/Saturation (7ch) 16 Bit	7	73	1, 8, 15, 22, ...
Mode 11: CIE xy (4ch) 8 Bit	4	128	1, 5, 9, 13, ...
Mode 12: CCT CIE xy (7ch) 8 Bit	7	73	1, 8, 15, 22, ...
Mode 13: CIE xy (7ch) 16 Bit	7	73	1, 8, 15, 22, ...
Mode 14: CCT CIE xy (13ch) 16 Bit	13	39	1, 14, 27, 40, ...
Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit	13	39	1, 14, 27, 40, ...
Mode 16: CCT RGBW Effects (16ch) 8 Bit	16	32	1, 17, 33, 49, ...
Mode 17: CCT CIE xy Effects (13ch) 8 Bit	13	39	1, 14, 27, 40, ...
Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit	19	26	1, 20, 39, 58, ...
Mode 19: CCT RGBW Effects (25ch) 16 Bit	25	20	1, 26, 51, 76, ...
Mode 20: CCT CIE xy Effects (19ch) 16 Bit	19	26	1, 20, 39, 58, ...
Mode 21: Gels (5ch) 8 Bit	5	102	1, 6, 11, 16, ...
Mode 22: CCT Gels (8 Ch) 8 Bit	8	64	1, 9, 17, 25, ...
Mode 23: CCT Gels Effects (15 Ch) 8 Bit	15	34	1, 16, 31, 46, ...
Mode 24: Gels (6ch) 16 Bit	6	85	1, 7, 13, 19, ...
Mode 25: CCT Gels (12 Ch) 16 Bit	12	42	1, 13, 25, 37, ...
Mode 26: CCT Gels Effects (18 Ch) 16 Bit	18	28	1, 19, 37, 55, ...
Mode 27: Gels Colour Bump(9ch) 8 Bit	9	56	1, 10, 19, 28, ...
Mode 28: CCT and Gels Colour Bump(12ch) 8 Bit	12	42	1, 13, 25, 37, ...
Mode 29: Gels Colour Bump(14ch) 16 Bit	14	36	1, 15, 29, 43, ...
Mode 30: CCT and Gels Colour Bump(20ch) 16 Bit	20	25	1, 21, 41, 61, ...



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.

4 Installation

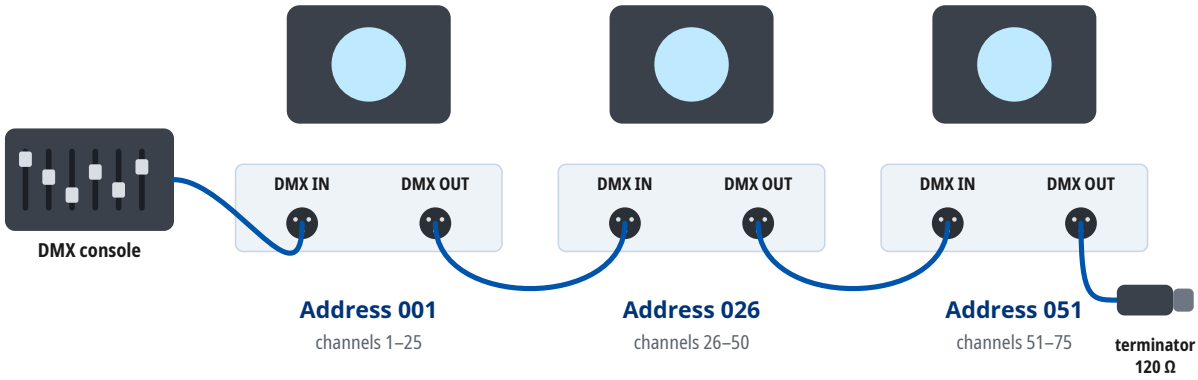
⚠ **WARNING**

- 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.
- Weight of the device: 17.83 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.

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 19: CCT RGBW Effects (25ch) 16 Bit: every unit occupies 25 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

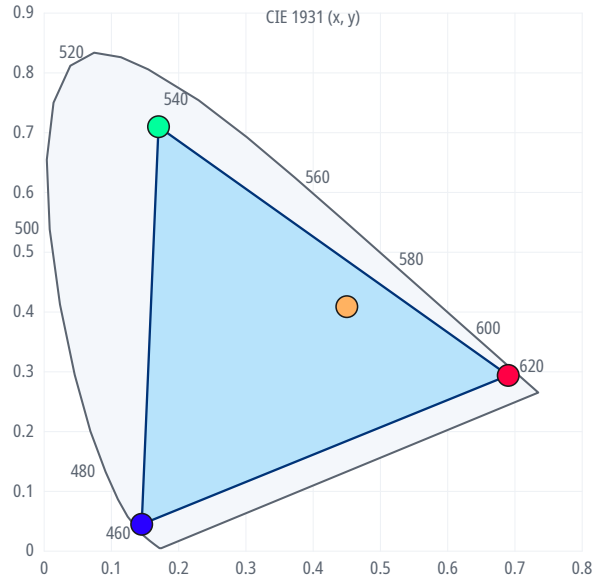
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Mode 19: CCT RGBW Effects (25ch) 16 Bit”: 25.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in the DMX mode “Mode 19: CCT RGBW Effects (25ch) 16 Bit”, you can use, for example, the start addresses 1, 26, 51, 76.
- 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.

7 Functions at a glance

Functions in each DMX mode

	Mode 1: CCT RGBW (10ch) 8 Bit 10 channels	Mode 2: CCT (4ch) 8 Bit 4 channels	Mode 3: CCT Hue/ Saturation (7ch) 8 Bit 7 channels	Mode 4: RGBW (7ch) 8 Bit 7 channels	Mode 5: Hue/ Saturation (4ch) 8 Bit 4 channels	Mode 6: CCT RGBW (19ch) 16 Bit 19 channels	Mode 7: CCT (7ch) 16 Bit 7 channels	Mode 8: CCT Hue/ Saturation (13ch) 16 Bit 13 channels
Dimmer	1	1	1	1	1	1	1	1
Dimmer resolution	8 bit	8 bit	8 bit	8 bit	8 bit	16 bit	16 bit	16 bit
Color mixing	5–9			2–6		5× (9–17)		
Color temperature	2	2	2			3	3	3

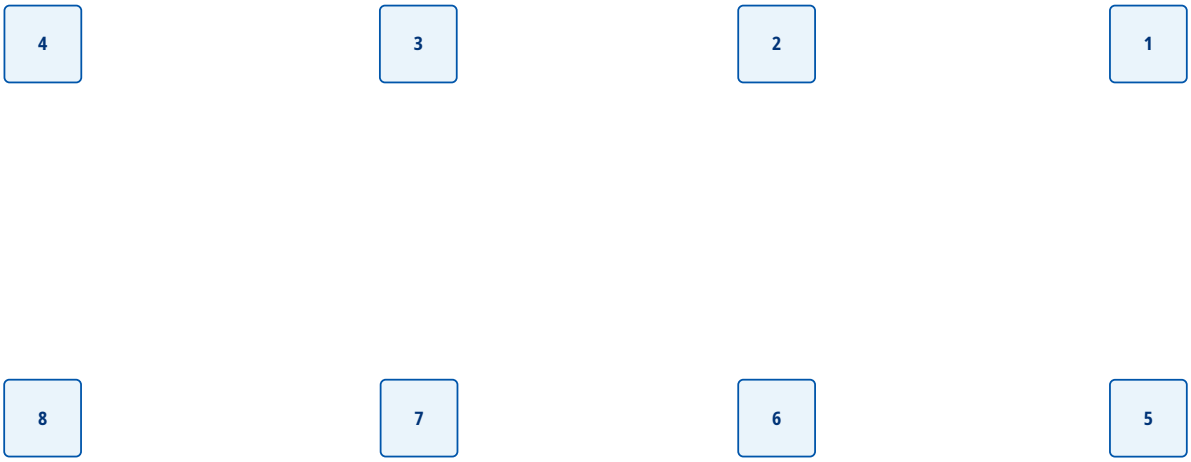
LED colors and the colors they mix



LED	x	y	nm
Red	0.690	0.294	640
Green	0.170	0.710	520
Blue	0.145	0.045	450
White	0.450	0.409	

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

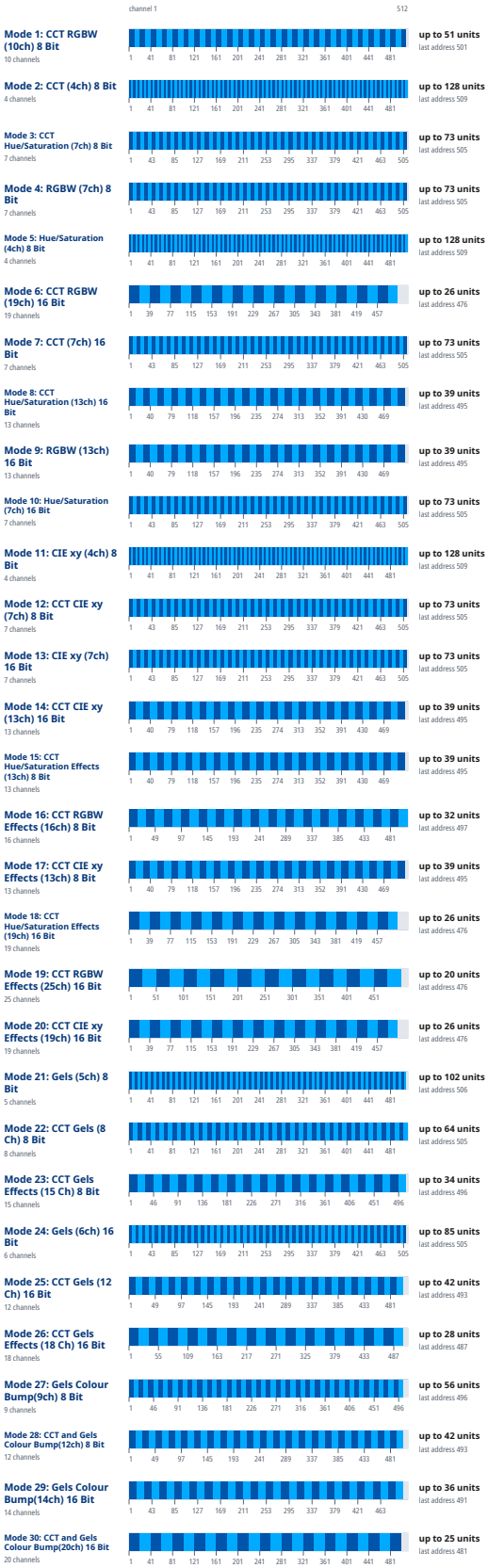
Cells (pixels)



8 cells where the GDTF file places them (seen from above), numbered in the file's order; the mode “Mode 16: CCT RGBW Effects (16ch) 8 Bit” drives them together.

8 DMX channels

Units in one DMX universe



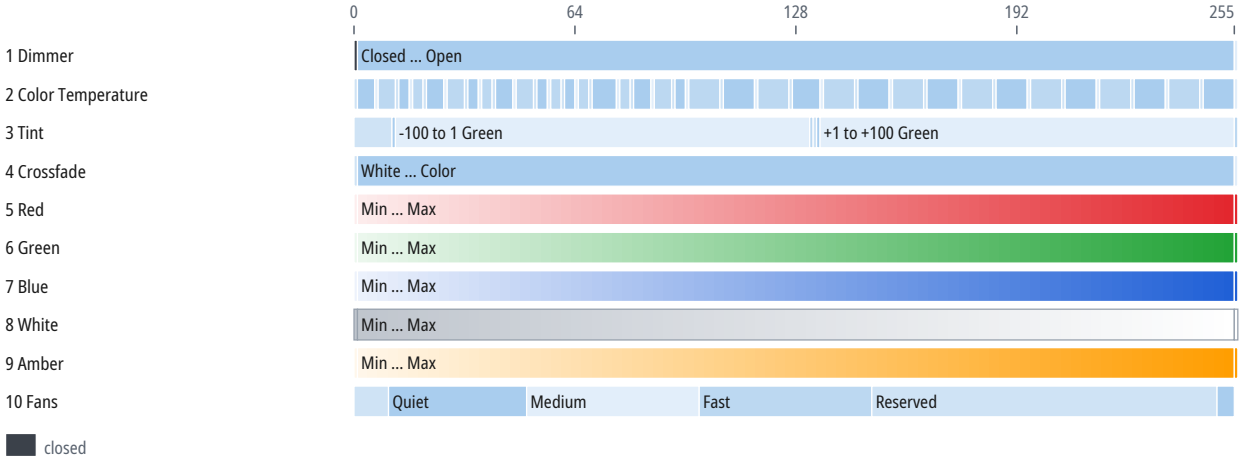
Start addresses of 20 units in the mode “Mode 19: CCT RGBW Effects (25ch) 16 Bit”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	126	11	251	16	376
2	26	7	151	12	276	17	401
3	51	8	176	13	301	18	426
4	76	9	201	14	326	19	451
5	101	10	226	15	351	20	476

Mode 1: CCT RGBW (10ch) 8 Bit

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 2 Color Temperature 255, CH 5 Red 255, CH 6 Green 255, CH 7 Blue 255, CH 8 White 255, CH 9 Amber 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0	Closed
		1–254	Closed ... Open
		255	Open
2	Color Temperature	0	2200
		1–5	2200 ... 2500
		6	2500
		7–11	2500 ... 2800
		12	2800
		13–15	2800 ... 3000
		16	3000
		17–19	3000 ... 3200
		20	3200
		21–25	3200 ... 3500
		26	3500
		27–31	3500 ... 3800
		32	3800
		33–35	3800 ... 4000

CH	Function	DMX	Description
2	Color Temperature (continued)	36	4000
		37–39	4000 … 4200
		40	4200
		41–45	4200 … 4500
		46	4500
		47–51	4500 … 4800
		52	4800
		53–55	4800 … 5000
		56	5000
		57–59	5000 … 5200
		60	5200
		61–63	5200 … 5400
		64	5400
		65–67	5400 … 5600
		68	5600
		69–75	5600 … 6000
		76	6000
		77–79	6000 … 6200
		80	6200
		81–85	6200 … 6500
		86	6500
		87–91	6500 … 6800
		92	6800
		93–95	6800 … 7000
		96	7000
		97–105	7000 … 7500
		106	7500
		107–115	7500 … 8000
		116	8000
		117–125	8000 … 8500
		126	8500
		127–134	8500 … 9000
		135	9000
		136–144	9000 … 9500
		145	9500
		146–154	9500 … 10000
		155	10000
		156–164	10000 … 10500
		165	10500
		166–174	10500 … 11000
		175	11000
		176–184	11000 … 11500

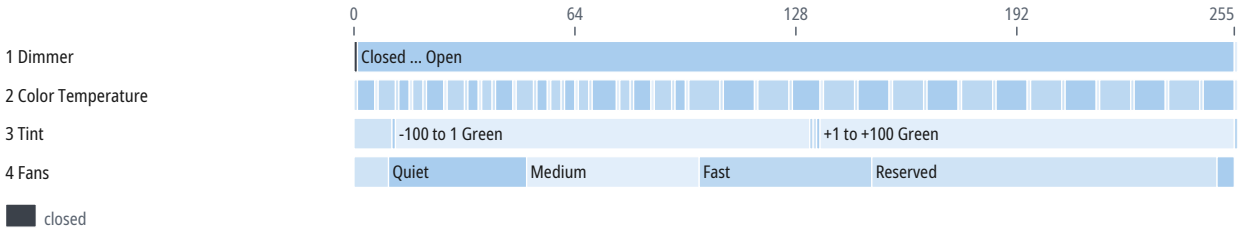
CH	Function	DMX	Description
2	Color Temperature (continued)	185	11500
		186–194	11500 … 12000
		195	12000
		196–204	12000 … 12500
		205	12500
		206–214	12500 … 13000
		215	13000
		216–224	13000 … 13500
		225	13500
		226–234	13500 … 14000
		235	14000
		236–244	14000 … 14500
		245	14500
		246–254	14500 … 15000
		255	15000
3	Tint	0–10	No effect
		11	-100 Green
		12–131	-100 to 1 Green
		132	-1 Green
		133	Neutral
		134	+1 Green
		135–254	+1 to +100 Green
		255	+ 100 Green
4	Crossfade	0	White
		1–254	White … Color
		255	Color
5	Red	0	Min
		1–254	Min … Max
		255	Max
6	Green	0	Min
		1–254	Min … Max
		255	Max
7	Blue	0	Min
		1–254	Min … Max
		255	Max
8	White	0	Min
		1–254	Min … Max
		255	Max
9	Amber	0	Min
		1–254	Min … Max
		255	Max
10	Fans	0–9	Auto

CH	Function	DMX	Description
10	Fans (continued)	10–49	Quiet
		50–99	Medium
		100–149	Fast
		150–249	Reserved
		250–255	Pause

Mode 2: CCT (4ch) 8 Bit

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 2 Color Temperature 255.

Channel functions at a glance

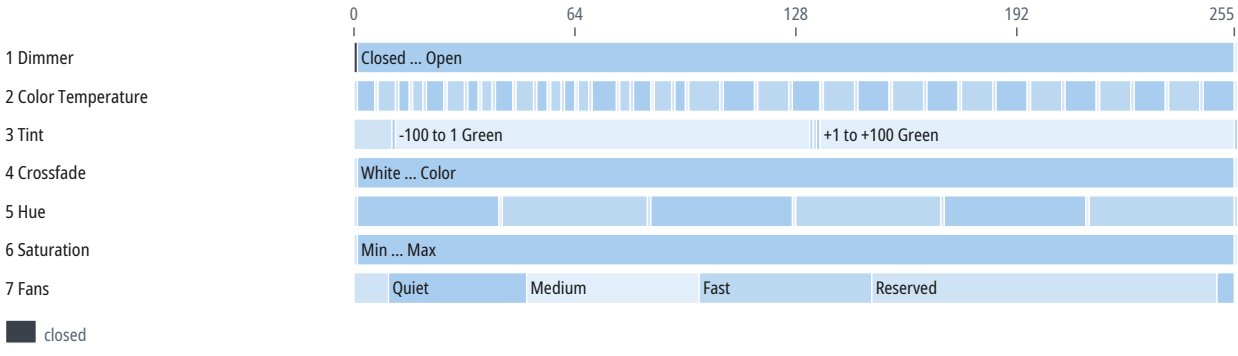


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Color Temperature		Same as CH 2 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
3	Tint		Same as CH 3 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
4	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 3: CCT Hue/Saturation (7ch) 8 Bit

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 2 Color Temperature 255.

Channel functions at a glance

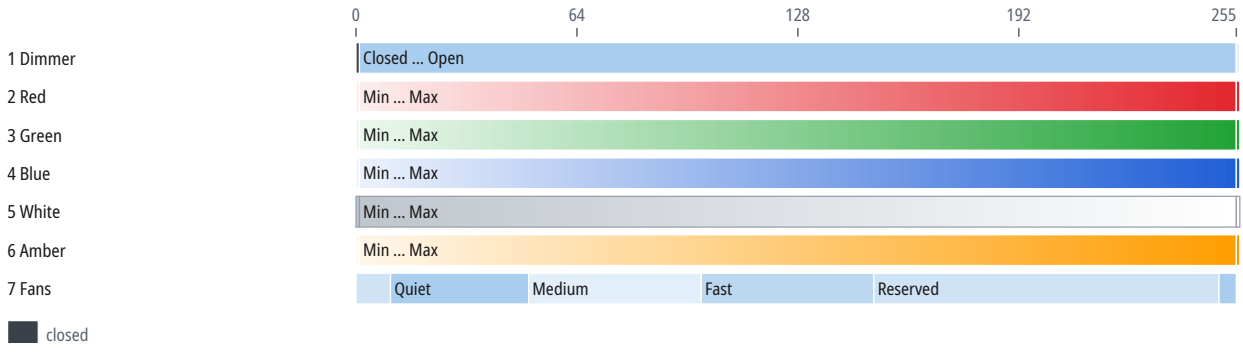


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Color Temperature		Same as CH 2 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
3	Tint		Same as CH 3 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
4	Crossfade		Same as CH 4 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
5	Hue	0	0deg Red
		1–41	0deg Red ... 60deg Yellow
		42	60deg Yellow
		43–84	60deg Yellow ... 120deg Green
		85	120deg Green
		86–126	120deg Green ... 180deg Cyan
		127	180deg Cyan
		128–169	180deg Cyan ... 240deg Blue
		170	240deg Blue
		171–211	240deg Blue ... 300deg Magenta
		212	300deg Magenta
		213–254	300deg Magenta ... 360deg Red
		255	360deg Red
6	Saturation	0	Min
		1–254	Min ... Max
		255	Max
7	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 4: RGBW (7ch) 8 Bit

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 2 Red 255, CH 3 Green 255, CH 4 Blue 255, CH 5 White 255, CH 6 Amber 0.

Channel functions at a glance

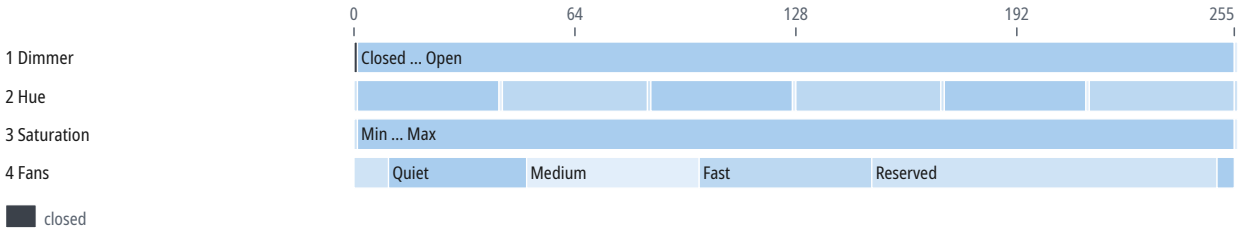


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Red		Same as CH 5 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
3	Green		Same as CH 6 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
4	Blue		Same as CH 7 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
5	White		Same as CH 8 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
6	Amber		Same as CH 9 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
7	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 5: Hue/Saturation (4ch) 8 Bit

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

Channel functions at a glance



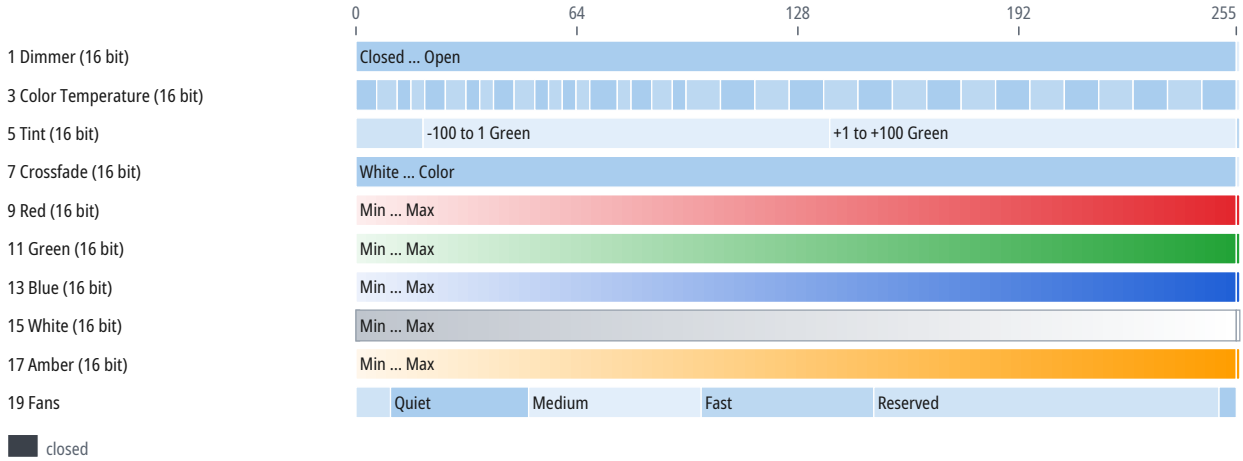
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Hue		Same as CH 5 in the mode “Mode 3: CCT Hue/Saturation (7ch) 8 Bit” (p. 13)
3	Saturation		Same as CH 6 in the mode “Mode 3: CCT Hue/Saturation (7ch) 8 Bit” (p. 13)
4	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 6: CCT RGBW (19ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Color Temperature 255, CH 9 Red 255, CH 11 Green 255, CH 13 Blue 255, CH 15 White 255, CH 17 Amber 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	Closed ... Open
		255	Open
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–5	2200 ... 2500
		6–11	2500 ... 2800
		12–15	2800 ... 3000
		16–19	3000 ... 3200
		20–25	3200 ... 3500
		26–31	3500 ... 3800
		32–35	3800 ... 4000
		36–39	4000 ... 4200
		40–45	4200 ... 4500
		46–51	4500 ... 4800
		52–55	4800 ... 5000
		56–59	5000 ... 5200
		60–63	5200 ... 5400
		64–67	5400 ... 5600
		68–75	5600 ... 6000
		76–79	6000 ... 6200
		80–85	6200 ... 6500
		86–91	6500 ... 6800
		92–95	6800 ... 7000
		96–105	7000 ... 7500

CH	Function	DMX	Description
3	Color Temperature (continued)	106–115	7500 ... 8000
		116–125	8000 ... 8500
		126–135	8500 ... 9000
		136–145	9000 ... 9500
		145	9500
		146–155	9500 ... 10000
		156–165	10000 ... 10500
		165	10500
		166–175	10500 ... 11000
		176–185	11000 ... 11500
		185	11500
		186–195	11500 ... 12000
		196–205	12000 ... 12500
		206–215	12500 ... 13000
		216–225	13000 ... 13500
		226–235	13500 ... 14000
		236–245	14000 ... 14500
		246–255	14500 ... 15000
		255	15000
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint	0–19	No effect
		19	-100 Green
		19–137	-100 to 1 Green
		137	-1 Green
		137	Neutral
		137	+1 Green
		137–255	+1 to +100 Green
		255	+ 100 Green
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Crossfade	0–255	White ... Color
		255	Color
8	Crossfade Fine	0–255	Fine adjustment of CH 7
9	Red	0–255	Min ... Max
		255	Max
10	Red Fine	0–255	Fine adjustment of CH 9
11	Green	0–255	Min ... Max
		255	Max
12	Green Fine	0–255	Fine adjustment of CH 11
13	Blue	0–255	Min ... Max
		255	Max
14	Blue Fine	0–255	Fine adjustment of CH 13
15	White	0–255	Min ... Max

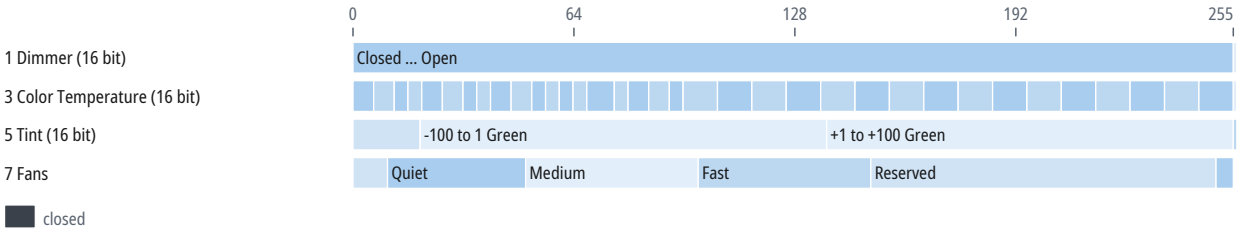
CH	Function	DMX	Description
15	White (continued)	255	Max
16	White Fine	0–255	Fine adjustment of CH 15
17	Amber	0–255	Min ... Max
		255	Max
18	Amber Fine	0–255	Fine adjustment of CH 17
19	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 7: CCT (7ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Color Temperature 255.

Channel functions at a glance



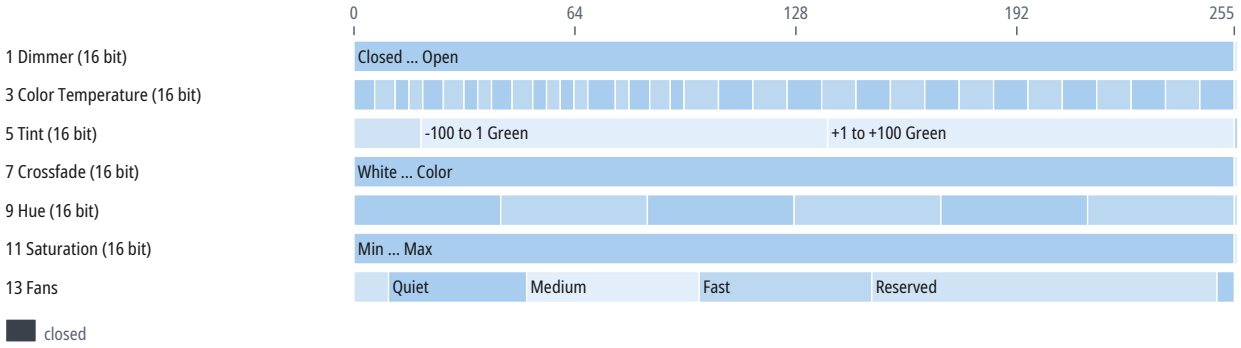
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 5 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 8: CCT Hue/Saturation (13ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Color Temperature 255.

Channel functions at a glance



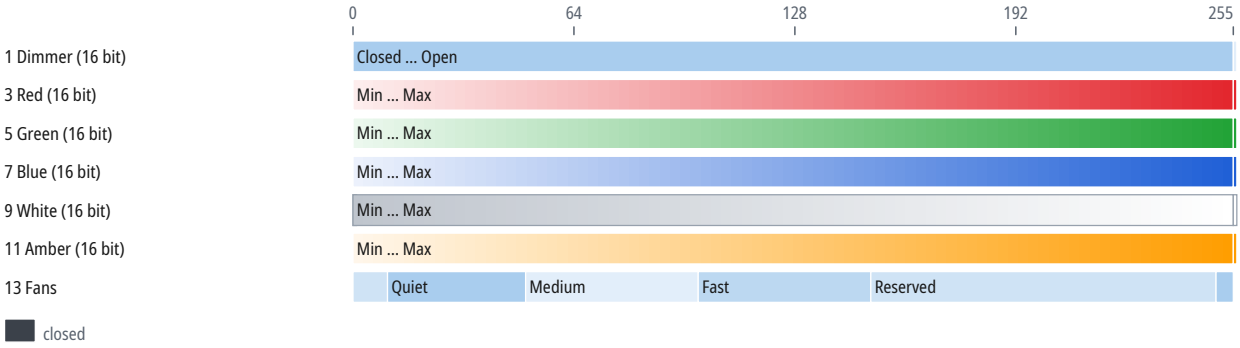
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 5 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Crossfade		Same as CH 7 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
8	Crossfade Fine	0–255	Fine adjustment of CH 7
9	Hue	0–42	0deg Red ... 60deg Yellow
		42–85	60deg Yellow ... 120deg Green
		85–127	120deg Green ... 180deg Cyan
		128–170	180deg Cyan ... 240deg Blue
		170–213	240deg Blue ... 300deg Magenta
		213–255	300deg Magenta ... 360deg Red
		255	360deg Red
10	Hue Fine	0–255	Fine adjustment of CH 9
11	Saturation	0–255	Min ... Max
		255	Max
12	Saturation Fine	0–255	Fine adjustment of CH 11
13	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 9: RGBW (13ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Red 255, CH 5 Green 255, CH 7 Blue 255, CH 9 White 255, CH 11 Amber 0.

Channel functions at a glance



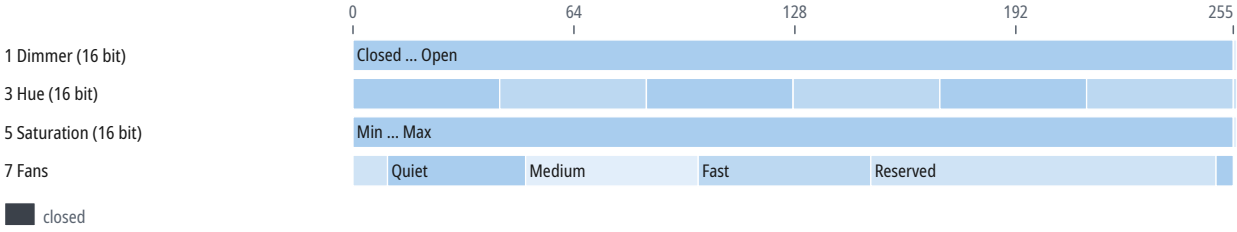
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Red		Same as CH 9 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
4	Red Fine	0–255	Fine adjustment of CH 3
5	Green		Same as CH 11 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
6	Green Fine	0–255	Fine adjustment of CH 5
7	Blue		Same as CH 13 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
8	Blue Fine	0–255	Fine adjustment of CH 7
9	White		Same as CH 15 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
10	White Fine	0–255	Fine adjustment of CH 9
11	Amber		Same as CH 17 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 17)
12	Amber Fine	0–255	Fine adjustment of CH 11
13	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 10: Hue/Saturation (7ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance

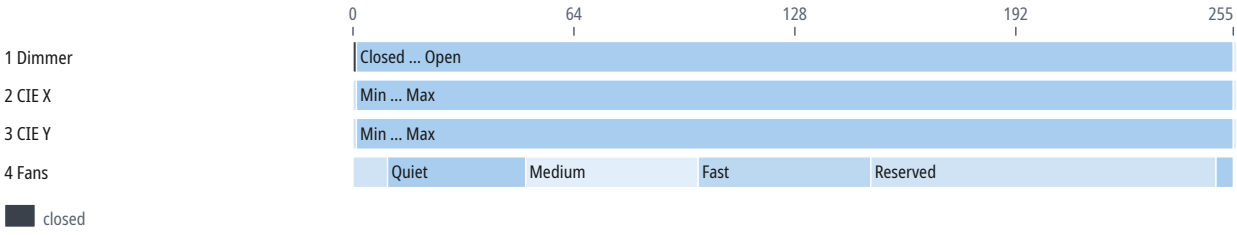


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Hue		Same as CH 9 in the mode “Mode 8: CCT Hue/Saturation (13ch) 16 Bit” (p. 18)
4	Hue Fine	0–255	Fine adjustment of CH 3
5	Saturation		Same as CH 11 in the mode “Mode 8: CCT Hue/Saturation (13ch) 16 Bit” (p. 18)
6	Saturation Fine	0–255	Fine adjustment of CH 5
7	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 11: CIE xy (4ch) 8 Bit

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

Channel functions at a glance

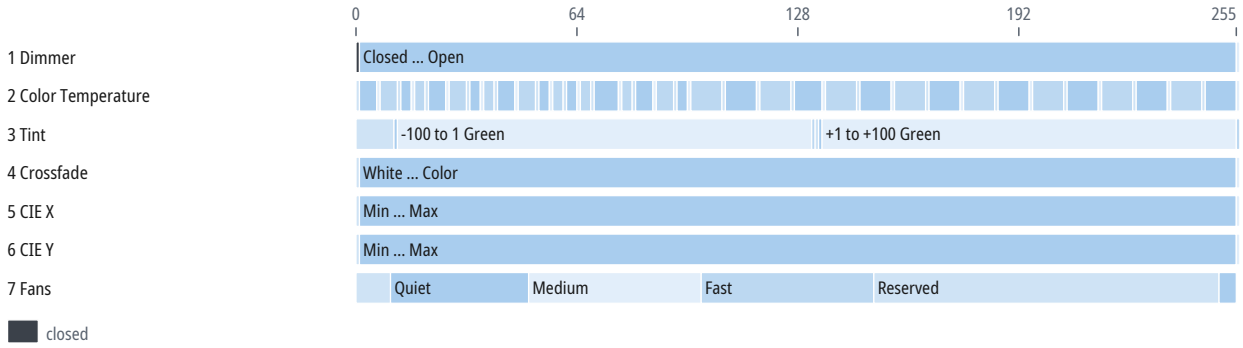


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	CIE X	0	Min
		1–254	Min ... Max
		255	Max
3	CIE Y	0	Min
		1–254	Min ... Max
		255	Max
4	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 12: CCT CIE xy (7ch) 8 Bit

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 2 Color Temperature 255.

Channel functions at a glance



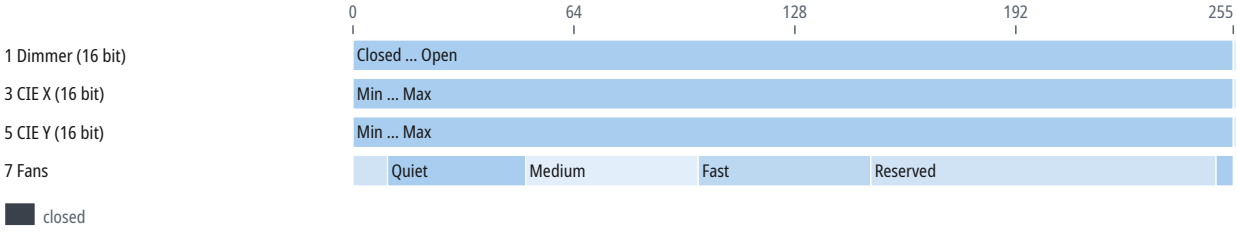
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Color Temperature		Same as CH 2 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
3	Tint		Same as CH 3 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
4	Crossfade		Same as CH 4 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
5	CIE X		Same as CH 2 in the mode “Mode 11: CIE xy (4ch) 8 Bit” (p. 21)
6	CIE Y		Same as CH 3 in the mode “Mode 11: CIE xy (4ch) 8 Bit” (p. 21)
7	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 13: CIE xy (7ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance



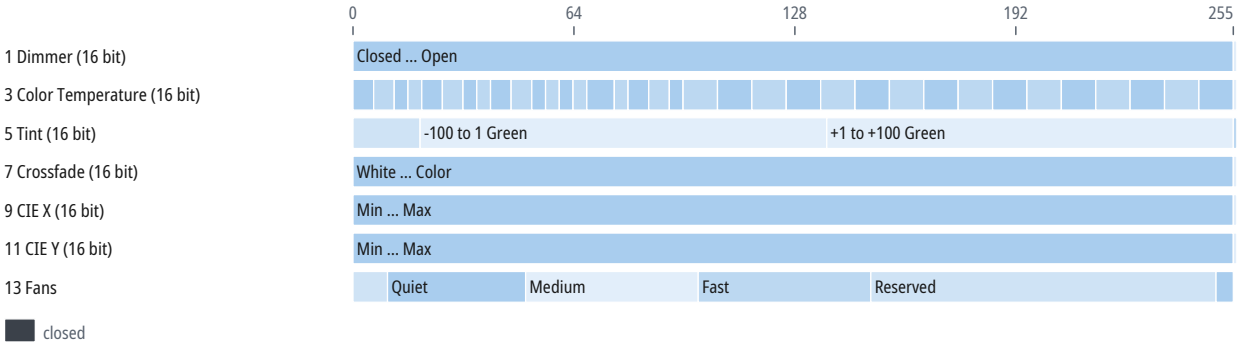
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	CIE X	0–255	Min ... Max
		255	Max
4	CIE X Fine	0–255	Fine adjustment of CH 3
5	CIE Y	0–255	Min ... Max
		255	Max
6	CIE Y Fine	0–255	Fine adjustment of CH 5
7	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 14: CCT CIE xy (13ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Color Temperature 255.

Channel functions at a glance

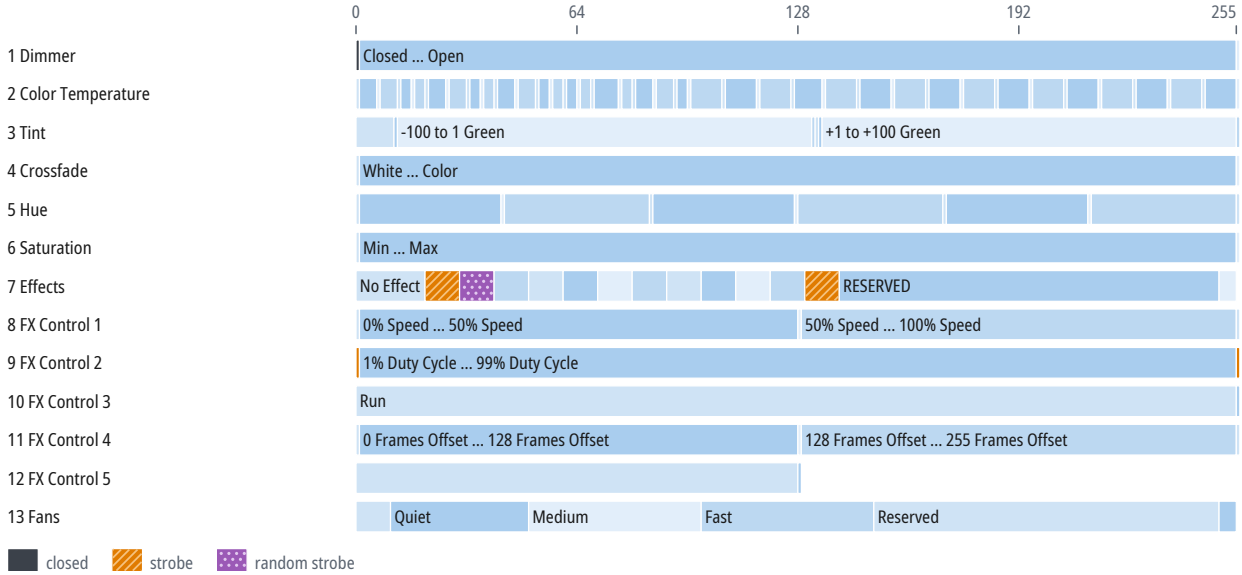


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 5 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Crossfade		Same as CH 7 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
8	Crossfade Fine	0–255	Fine adjustment of CH 7
9	CIE X		Same as CH 3 in the mode “Mode 13: CIE xy (7ch) 16 Bit” (p. 22)
10	CIE X Fine	0–255	Fine adjustment of CH 9
11	CIE Y		Same as CH 5 in the mode “Mode 13: CIE xy (7ch) 16 Bit” (p. 22)
12	CIE Y Fine	0–255	Fine adjustment of CH 11
13	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit

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 2 Color Temperature 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Color Temperature		Same as CH 2 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
3	Tint		Same as CH 3 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
4	Crossfade		Same as CH 4 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
5	Hue		Same as CH 5 in the mode “Mode 3: CCT Hue/Saturation (7ch) 8 Bit” (p. 13)
6	Saturation		Same as CH 6 in the mode “Mode 3: CCT Hue/Saturation (7ch) 8 Bit” (p. 13)
7	Effects	0–19	No Effect
		20–29	Strobe
		30–39	Random
		40–49	Flash Frames
		50–59	Dual Level
		60–69	Sync Flash
		70–79	Colour Cycle
		80–89	Candle and Fire
		90–99	Emergency Lights
		100–109	Television
		110–119	Paparazzi
		120–129	Party
		130–139	Pulse
		140–249	RESERVED
		250–255	Calibrate Sync
8	FX Control 1		When CH 7 is 20–29:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 7 is 30–39:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 7 is 40–49:
		0	0% Off Level
		1–127	0% Off Level ... 50% Off Level
		128	50% Off Level

CH	Function	DMX	Description
8	FX Control 1 (continued)	129–254	50% Off Level ... 100% Off Level
		255	100% Off Level
			When CH 7 is 50–59:
		0	0% Flash Level
		1–127	0% Flash Level ... 50% Flash Level
		128	50% Flash Level
		129–254	50% Flash Level ... 100% Flash Level
		255	100% Flash Level
			When CH 7 is 60–69:
		0	0% Flash Level
		1–127	0% Flash Level ... 50% Flash Level
		128	50% Flash Level
		129–254	50% Flash Level ... 100% Flash Level
		255	100% Flash Level
			When CH 7 is 70–79:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 7 is 80–89:
		0–19	Custom
		20–39	Candle Calm
		40–59	Candle Windy
		60–79	Fireplace
		80–99	Campfire
		100–119	Bonfire
		120–139	Inferno
		140–159	Gas Fire
		160–179	RESERVED
		180–255	Candle and Fire
			When CH 7 is 90–99:
		0–9	Custom
		10–19	Blue Slow
		20–29	Blue Fast
		30–39	Blue Double
		40–49	Blue Burst
		50–59	Blue/Red Slow
		60–69	Blue/Red Fast
		70–79	Blue/Red Double
		80–89	Blue/Red Burst
		90–99	Blue/Red Rapid

CH	Function	DMX	Description
8	FX Control 1 (continued)	100–109	Blue/Red/White Rapid
		110–119	Red Warning
		120–129	Amber Ping
		130–139	Magenta Burst
		140–255	RESERVED
			When CH 7 is 100–109:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 7 is 110–119:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 7 is 120–129:
		0–19	Primary 6
		20–39	Primary 12
		40–59	Primary 24
		60–79	Warm
		80–99	Cool
		100–119	Warm and Cool
		120–139	Pastel
		140–159	Purple Rain
		160–179	Ultra Violet
		180–255	RESERVED
			When CH 7 is 130–139:
		0	0% Frequency
		1–127	0% Frequency ... 50% Frequency
		128	50% Frequency
		129–254	50% Frequency ... 100% Frequency
		255	100% Frequency
			When CH 7 is 250–255:
		0	0 Sync Phase
		1–127	0 Sync Phase ... 180 Sync Phase
		128	180 Sync Phase
		129–254	180 Sync Phase ... 360 Sync Phase
		255	360 Sync Phase
9	FX Control 2		When CH 7 is 20–29:
		0	1% Duty Cycle

CH	Function	DMX	Description
9	FX Control 2 (continued)	1–254	1% Duty Cycle ... 99% Duty Cycle
		255	99% Duty Cycle
			When CH 7 is 30–39:
		0	1ms Flash Length
		1–63	1ms Flash Length ... 50ms Flash Length
		64	50ms Flash Length
		65–126	50ms Flash Length ... 100ms Flash Length
		127	100ms Flash Length
		128–190	100ms Flash Length ... 150ms Flash Length
		191	150ms Flash Length
		192–254	150ms Flash Length ... 200ms Flash Length
		255	200ms Flash Length
			When CH 7 is 40–49:
		0–1	1 Frame On
		2–127	1 Frame On ... 128 Frames On
		128	128 Frames On
		129–254	128 Frames On ... 255 Frames On
		255	255 Frames On
			When CH 7 is 50–59:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 7 is 60–69:
		0–9	1/5000
		10–19	1/2000
		20–29	1/1000
		30–39	1/800
		40–49	1/500
		50–59	1/320
		60–69	1/250
		70–79	1/125
		80–89	1/60
		90–99	1/30
		100–109	1/15
		110–119	1/10
		120–129	1/5
		130–255	RESERVED
			When CH 7 is 70–79:
		0	0deg Red
		1–41	0deg Red ... 60deg Yellow
		42	60deg Yellow
		43–84	60deg Yellow ... 120deg Green
		85	120deg Green

CH	Function	DMX	Description
9	FX Control 2 (continued)	86–126	120deg Green ... 180deg Cyan
		127	180deg Cyan
		128–169	180deg Cyan ... 240deg Blue
		170	240deg Blue
		171–211	240deg Blue ... 300deg Magenta
		212	300deg Magenta
		213–254	300deg Magenta ... 360deg Red
		255	360deg Red
			When CH 7 is 80–89:
		0	0% Intensity
		1–127	0% Intensity ... 50% Intensity
		128	50% Intensity
		129–254	50% Intensity ... 100% Intensity
		255	100% Intensity
			When CH 7 is 90–99:
		0–14	Blue
		15–29	Blue / Red
		30–44	Blue / White
		45–59	Blue / Amber
		60–74	Blue / White / Red
		75–89	Blue / Amber / Red
		90–104	Red / Amber
		105–119	Red
		120–134	Amber
		135–149	Magenta
		150–164	Green
		165–179	White
		180–244	RESERVED
		245–255	Colour Mode Slots to Set Colour
			When CH 7 is 100–109:
		0	0% Intensity
		1–127	0% Intensity ... 50% Intensity
		128	50% Intensity
		129–254	50% Intensity ... 100% Intensity
		255	100% Intensity
			When CH 7 is 110–119:
		0	0% Decay Speed
		1–127	0% Decay Speed ... 50% Decay Speed
		128	50% Decay Speed
		129–254	50% Decay Speed ... 100% Decay Speed
		255	100% Decay Speed

CH	Function	DMX	Description
9	FX Control 2 (continued)		When CH 7 is 120–129:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 7 is 130–139:
		0	0% Pulse Speed
		1–127	0% Pulse Speed ... 50% Pulse Speed
		128	50% Pulse Speed
		129–254	50% Pulse Speed ... 100% Pulse Speed
		255	100% Pulse Speed
10	FX Control 3		When CH 7 is 20–29:
		0–254	Run
		255	Restart Effect
			When CH 7 is 30–39:
		0	0% Variation
		1–127	0% Variation ... 50% Variation
		128	50% Variation
		129–254	50% Variation ... 100% Variation
		255	100% Variation
			When CH 7 is 40–49:
		0–1	1 Frame Off
		2–127	1 Frame Off ... 128 Frames Off
		128	128 Frames Off
		129–254	128 Frames Off ... 255 Frames Off
		255	255 Frames Off
			When CH 7 is 50–59:
		0–127	Normal Level
		128–255	Flash Level
			When CH 7 is 60–69:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 7 is 70–79:
		0–254	Run
		255	Effect Restart
			When CH 7 is 80–89:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed

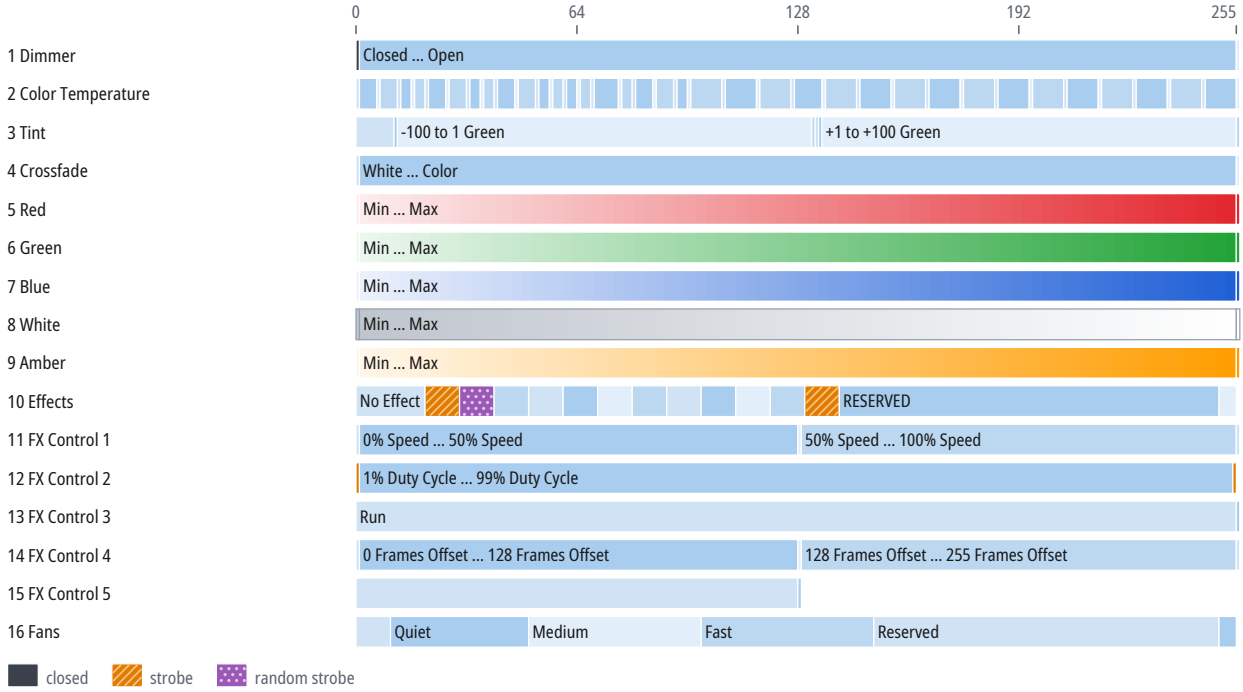
CH	Function	DMX	Description
10	FX Control 3 (continued)	255	100% Speed
			When CH 7 is 90–99:
		0–9	1 Flash
		10–19	2 Flashes
		20–29	3 Flashes
		30–39	4 Flashes
		40–49	5 Flashes
		50–59	6 Flashes
		60–69	7 Flashes
		70–79	8 Flashes
		80–89	9 Flashes
		90–99	10 Flashes
		100–109	11 Flashes
		110–119	12 Flashes
		120–129	13 Flashes
		130–139	14 Flashes
		140–149	15 Flashes
		150–159	16 Flashes
		160–169	17 Flashes
		170–179	18 Flashes
		180–189	19 Flashes
		190–199	20 Flashes
		200–255	RESERVED
			When CH 7 is 100–109:
		0	2200k
		1–254	2200k ... 10000k
		255	10000k
			When CH 7 is 110–119:
		0	1700k
		1–243	1700k ... 15000k
		244	15000k
		245–255	Use Colour Mode Slots For Colour
			When CH 7 is 120–129:
		0–39	Immediate Transistion
		40–79	Fade Transition
		80–119	Fade Transition (Random Speed)
		120–255	RESERVED
11	FX Control 4		When CH 7 is 40–49:
		0	0 Frames Offset
		1–127	0 Frames Offset ... 128 Frames Offset
		128	128 Frames Offset

CH	Function	DMX	Description
11	FX Control 4 (continued)	129–254	128 Frames Offset ... 255 Frames Offset
		255	255 Frames Offset
			When CH 7 is 60–69:
		0–127	Trigger Off
		128–255	Trigger On (Start Timed Flash)
			When CH 7 is 80–89:
		0	1400K
		1–243	1400K ... 5600K
		244	5600K
		245–255	Colour Mode Slots for Colour
			When CH 7 is 90–99:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 7 is 120–129:
		0	0% Transition Speed
		1–127	0% Transition Speed ... 50% Transition Speed
		128	50% Transition Speed
		129–254	50% Transition Speed ... 100% Transition Speed
		255	100% Transition Speed
12	FX Control 5		When CH 7 is 40–49:
		0–127	Effect Enable
		128–255	Effect Disable
			When CH 7 is 90–99:
		0	0 Second Pause
		1–127	0 Second Pause ... 1 Second Pause
		128	1 Second Pause
		129–254	1 Second Pause ... 2 Second Pause
		255	2 Second Pause
13	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 16: CCT RGBW Effects (16ch) 8 Bit

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 2 Color Temperature 255, CH 5 Red 255, CH 6 Green 255, CH 7 Blue 255, CH 8 White 255, CH 9 Amber 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Color Temperature		Same as CH 2 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
3	Tint		Same as CH 3 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
4	Crossfade		Same as CH 4 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
5	Red		Same as CH 5 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
6	Green		Same as CH 6 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
7	Blue		Same as CH 7 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
8	White		Same as CH 8 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
9	Amber		Same as CH 9 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
10	Effects		Same as CH 7 in the mode “Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit” (p. 24)
11	FX Control 1		When CH 10 is 20–29:
		0	0% Speed

CH	Function	DMX	Description
11	FX Control 1 (continued)	1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 10 is 30–39:
		0–1	05 Flashes Per Second
		2–253	05 Flashes Per Second ... 5Hz Flashes Per Second
		254–255	5Hz Flashes Per Second
			When CH 10 is 40–49:
		0	0% Off Level
		1–127	0% Off Level ... 50% Off Level
		128	50% Off Level
		129–254	50% Off Level ... 100% Off Level
		255	100% Off Level
			When CH 10 is 50–59:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%
		127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 10 is 60–69:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%
		127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 10 is 70–79:
		0–1	0% Speed
		2–119	0% Speed ... 50% Speed
		120–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 10 is 80–89:
		0–19	Custom
		20–39	Candle Calm
		40–59	Candle Windy
		60–79	Fireplace
		80–99	Campfire
		100–119	Bon Fire
		120–139	Inferno
		140–159	Gas Fire

CH	Function	DMX	Description
11	FX Control 1 (continued)	160–179	RESERVED
		180–255	Candle and Fire
			When CH 10 is 90–99:
		0–9	Custom
		10–19	Blue Slow
		20–29	Blue Fast
		30–39	Blue Double
		40–49	Blue Burst
		50–59	Blue/Red Slow
		60–69	Blue/Red Fast
		70–79	Blue/Red Double
		80–89	Blue/Red Burst
		90–99	Blue/Red Rapid
		100–109	Blue/Red/White Rapid
		110–119	Red Warning
		120–129	Amber Ping
		130–139	Magenta Burst
		140–255	RESERVED
			When CH 10 is 100–109:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 10 is 110–119:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 10 is 120–129:
		0–19	Primary 6
		20–39	Primary 12
		40–59	Primary 24
		60–79	Warm
		80–99	Cool
		100–119	Warm and Cool
		120–139	Pastel
		140–159	Purple Rain
		160–179	Ultra Violet
		180–255	RESERVED

CH	Function	DMX	Description
11	FX Control 1 (continued)		When CH 10 is 130–139:
		0–1	0% Frequency
		2–127	0% Frequency ... 50% Frequency
		128–130	50% Frequency
		131–249	50% Frequency ... 100% Frequency
		250–255	100% Frequency
			When CH 10 is 250–255:
		0	0 Sync Phase
		1–127	0 Sync Phase ... 180 Sync Phase
		128	180 Sync Phase
		129–254	180 Sync Phase ... 360 Sync Phase
		255	360 Sync Phase
12	FX Control 2		When CH 10 is 20–29:
		0	1% Duty Cycle
		1–253	1% Duty Cycle ... 99% Duty Cycle
		254–255	99% Duty Cycle
			When CH 10 is 30–39:
		0–1	1ms Flash Length
		2–63	1ms Flash Length ... 50ms Flash Length
		64	50ms Flash Length
		65–126	50ms Flash Length ... 100ms Flash Length
		127	100ms Flash Length
		128–190	100ms Flash Length ... 150ms Flash Length
		191	150ms Flash Length
		192–254	150ms Flash Length ... 200ms Flash Length
		255	200ms Flash Length
			When CH 10 is 40–49:
		0–1	1 Frame On
		2–127	1 Frame On ... 128 Frames On
		128	128 Frames On
		129–254	128 Frames On ... 255 Frames On
		255	255 Frames On
			When CH 10 is 50–59:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 10 is 60–69:
		0–9	1/5000
		10–19	1/2000
		20–29	1/1000
		30–39	1/800
		40–49	1/500

CH	Function	DMX	Description
12	FX Control 2 (continued)	50–59	1/320
		60–69	1/250
		70–79	1/125
		80–89	1/60
		90–99	1/30
		100–109	1/15
		110–119	1/10
		120–129	1/5
		130–255	RESERVED
			When CH 10 is 70–79:
		0	0deg Red
		1–41	0deg Red ... 60deg Yellow
		42	60deg Yellow
		43–84	60deg Yellow ... 120deg Green
		85	120deg Green
		86–126	120deg Green ... 180deg Cyan
		127	180deg Cyan
		128–169	180deg Cyan ... 240deg Blue
		170	240deg Blue
		171–211	240deg Blue ... 300deg Magenta
		212	300deg Magenta
		213–254	300deg Magenta ... 360deg Red
		255	360deg Red
			When CH 10 is 80–89:
		0–1	0% Intensity
		2–127	0% Intensity ... 50% Intensity
		128–130	50% Intensity
		131–249	50% Intensity ... 100% Intensity
		250–255	100% Intensity
			When CH 10 is 90–99:
		0–14	Blue
		15–29	Blue / Red
		30–44	Blue / White
		45–59	Blue / Amber
		60–74	Blue / White / Red
		75–89	Blue / Amber / Red
		90–104	Red / Amber
		105–119	Red
		120–134	Amber
		135–149	Magenta
		150–164	Green

CH	Function	DMX	Description
12	FX Control 2 (continued)	165–179	White
		180–244	RESERVED
		245–255	Colour Mode Slots to Set Colour
			When CH 10 is 100–109:
		0–1	0% Intensity
		2–126	0% Intensity ... 50% Intensity
		127–130	50% Intensity
		131–249	50% Intensity ... 100% Intensity
		250–255	100% Intensity
			When CH 10 is 110–119:
		0–1	0% Decay Speed
		2–126	0% Decay Speed ... 50% Decay Speed
		127–130	50% Decay Speed
		131–249	50% Decay Speed ... 100% Decay Speed
		250–255	100% Decay Speed
			When CH 10 is 120–129:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 10 is 130–139:
		0–1	0% Pulse Speed
		2–126	0% Pulse Speed ... 50% Pulse Speed
		127–130	50% Pulse Speed
		131–249	50% Pulse Speed ... 100% Pulse Speed
		250–255	100% Pulse Speed
13	FX Control 3		When CH 10 is 20–29:
		0–254	Run
		255	Restart Effect
			When CH 10 is 30–39:
		0–1	0% Variation
		2–63	0% Variation ... 25% Varitation
		64	25% Varitation
		65–126	25% Varitation ... 50% Variation
		127	50% Variation
		128–190	50% Variation ... 75% Variation
		191	75% Variation
		192–254	75% Variation ... 100% Variation
		255	100% Variation
			When CH 10 is 40–49:
		0–1	1 Frame Off

CH	Function	DMX	Description
13	FX Control 3 (continued)	2–126	1 Frame Off ... 127 Frames Off
		127	127 Frames Off
		128–254	127 Frames Off ... 255 Frames Off
		255	255 Frames Off
			When CH 10 is 50–59:
		0–127	Normal Level
		128–255	Flash Level
			When CH 10 is 60–69:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 10 is 70–79:
		0–254	Run
		255	Effect Restart
			When CH 10 is 80–89:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 10 is 90–99:
		0–9	1 Flash
		10–19	2 Flash
		20–29	3 Flash
		30–39	4 Flash
		40–49	5 Flash
		50–59	6 Flash
		60–69	7 Flash
		70–79	8 Flash
		80–89	9 Flash
		90–99	10 Flash
		100–109	11 Flash
		110–119	12 Flash
		120–129	13 Flash
		130–139	14 Flash
		140–149	15 Flash
		150–159	16 Flash
		160–169	17 Flash
		170–179	18 Flash
		180–189	19 Flash
		190–199	20 Flash
		200–255	RESERVED
			When CH 10 is 100–109:

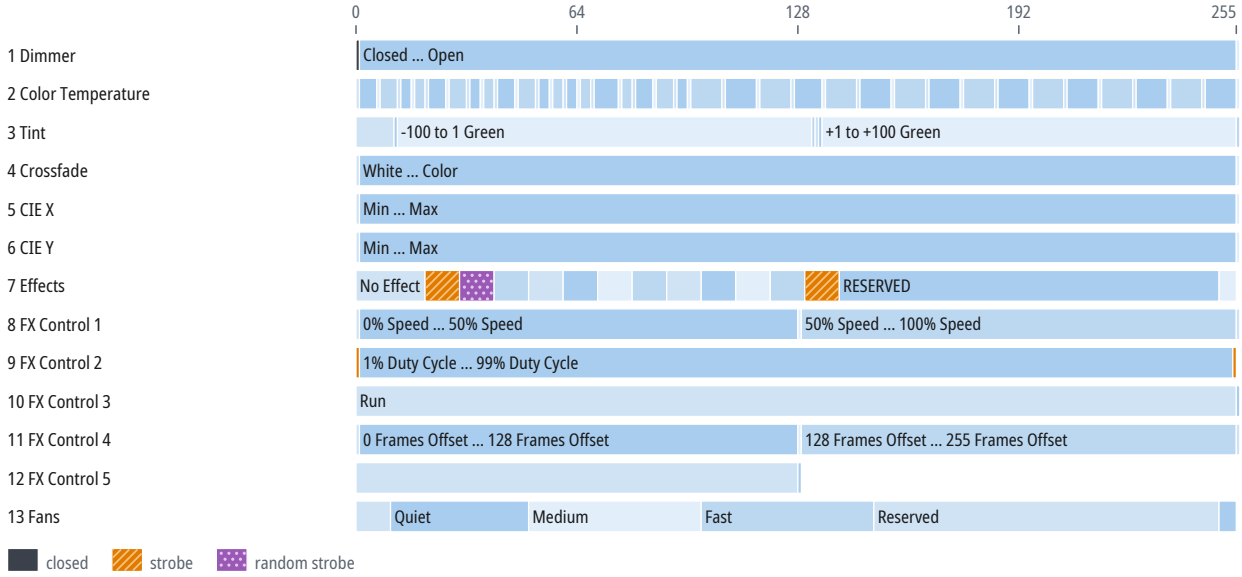
CH	Function	DMX	Description
13	FX Control 3 (continued)	0–1	2200k
		2–126	2200k ... 3900k
		127	3900k
		128–254	3900k ... 10000k
		255	10000k
			When CH 10 is 110–119:
		0–1	1700k
		2–243	1700k ... 15000k
		244	15000k
		245–255	Use Colour Mode Slots For Colour
			When CH 10 is 120–129:
		0–39	Immediate Transistion
		40–79	Fade Transition
		80–119	Fade - Random Transition Speed
		120–255	RESERVED
14	FX Control 4		When CH 10 is 40–49:
		0	0 Frames Offset
		1–127	0 Frames Offset ... 128 Frames Offset
		128	128 Frames Offset
		129–254	128 Frames Offset ... 255 Frames Offset
		255	255 Frames Offset
			When CH 10 is 60–69:
		0–127	Trigger Off
		128–255	Trigger On
			When CH 10 is 80–89:
		0–1	1400k
		2–121	1400k ... 2100k
		122	2100k
		123–243	2100k ... 5600k
		244	5600k
		245–255	Colour Mode Slots for Colour
			When CH 10 is 90–99:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 10 is 120–129:
		0–1	0% Transition Speed
		2–126	0% Transition Speed ... 50% Transition Speed
		127–128	50% Transition Speed
		129–253	50% Transition Speed ... 100% Transition Speed

CH	Function	DMX	Description
14	FX Control 4 (continued)	254–255	100% Transition Speed
15	FX Control 5		When CH 10 is 40–49:
		0–127	Effect Enable
		128–255	Effect Disable
			When CH 10 is 90–99:
		0–1	0 Seconds Pause
		2–126	0 Seconds Pause ... 1 Second Pause
		127–128	1 Second Pause
		129–253	1 Second Pause ... 2 Seconds Pause
		254–255	2 Seconds Pause
16	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 17: CCT CIE xy Effects (13ch) 8 Bit

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 2 Color Temperature 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Color Temperature		Same as CH 2 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
3	Tint		Same as CH 3 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
4	Crossfade		Same as CH 4 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
5	CIE X		Same as CH 2 in the mode “Mode 11: CIE xy (4ch) 8 Bit” (p. 21)
6	CIE Y		Same as CH 3 in the mode “Mode 11: CIE xy (4ch) 8 Bit” (p. 21)
7	Effects		Same as CH 7 in the mode “Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit” (p. 24)
8	FX Control 1		When CH 7 is 20–29:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 7 is 30–39:
		0–1	05 Flashes Per Second
		2–253	05 Flashes Per Second ... 5Hz Flashes Per Second
		254–255	5Hz Flashes Per Second

CH	Function	DMX	Description
8	FX Control 1 (continued)		When CH 7 is 40–49:
		0	0% Off Level
		1–127	0% Off Level ... 50% Off Level
		128	50% Off Level
		129–254	50% Off Level ... 100% Off Level
		255	100% Off Level
			When CH 7 is 50–59:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%
		127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 7 is 60–69:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%
		127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 7 is 70–79:
		0–1	0% Speed
		2–119	0% Speed ... 50% Speed
		120–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 7 is 80–89:
		0–19	Custom
		20–39	Candle Calm
		40–59	Candle Windy
		60–79	Fireplace
		80–99	Campfire
		100–119	Bon Fire
		120–139	Inferno
		140–159	Gas Fire
		160–179	RESERVED
		180–255	Candle and Fire
			When CH 7 is 90–99:
		0–9	Custom
		10–19	Blue Slow
		20–29	Blue Fast
		30–39	Blue Double
		40–49	Blue Burst

CH	Function	DMX	Description
8	FX Control 1 (continued)	50–59	Blue/Red Slow
		60–69	Blue/Red Fast
		70–79	Blue/Red Double
		80–89	Blue/Red Burst
		90–99	Blue/Red Rapid
		100–109	Blue/Red/White Rapid
		110–119	Red Warning
		120–129	Amber Ping
		130–139	Magenta Burst
		140–255	RESERVED
			When CH 7 is 100–109:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 7 is 110–119:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 7 is 120–129:
		0–19	Primary 6
		20–39	Primary 12
		40–59	Primary 24
		60–79	Warm
		80–99	Cool
		100–119	Warm and Cool
		120–139	Pastel
		140–159	Purple Rain
		160–179	Ultra Violet
		180–255	RESERVED
			When CH 7 is 130–139:
		0–1	0% Frequency
		2–127	0% Frequency ... 50% Frequency
		128–130	50% Frequency
		131–249	50% Frequency ... 100% Frequency
		250–255	100% Frequency
			When CH 7 is 250–255:
		0	0 Sync Phase

CH	Function	DMX	Description
8	FX Control 1 (continued)	1–127	0 Sync Phase ... 180 Sync Phase
		128	180 Sync Phase
		129–254	180 Sync Phase ... 360 Sync Phase
		255	360 Sync Phase
9	FX Control 2		When CH 7 is 20–29:
		0	1% Duty Cycle
		1–253	1% Duty Cycle ... 99% Duty Cycle
		254–255	99% Duty Cycle
			When CH 7 is 30–39:
		0–1	1ms Flash Length
		2–63	1ms Flash Length ... 50ms Flash Length
		64	50ms Flash Length
		65–126	50ms Flash Length ... 100ms Flash Length
		127	100ms Flash Length
		128–190	100ms Flash Length ... 150ms Flash Length
		191	150ms Flash Length
		192–254	150ms Flash Length ... 200ms Flash Length
		255	200ms Flash Length
			When CH 7 is 40–49:
		0–1	1 Frame On
		2–127	1 Frame On ... 128 Frames On
		128	128 Frames On
		129–254	128 Frames On ... 255 Frames On
		255	255 Frames On
			When CH 7 is 50–59:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 7 is 60–69:
		0–9	1/5000
		10–19	1/2000
		20–29	1/1000
		30–39	1/800
		40–49	1/500
		50–59	1/320
		60–69	1/250
		70–79	1/125
		80–89	1/60
		90–99	1/30
		100–109	1/15
		110–119	1/10
		120–129	1/5

CH	Function	DMX	Description
9	FX Control 2 (continued)	130–255	RESERVED
			When CH 7 is 70–79:
		0	0deg Red
		1–41	0deg Red ... 60deg Yellow
		42	60deg Yellow
		43–84	60deg Yellow ... 120deg Green
		85	120deg Green
		86–126	120deg Green ... 180deg Cyan
		127	180deg Cyan
		128–169	180deg Cyan ... 240deg Blue
		170	240deg Blue
		171–211	240deg Blue ... 300deg Magenta
		212	300deg Magenta
		213–254	300deg Magenta ... 360deg Red
		255	360deg Red
			When CH 7 is 80–89:
		0–1	0% Intensity
		2–127	0% Intensity ... 50% Intensity
		128–130	50% Intensity
		131–249	50% Intensity ... 100% Intensity
		250–255	100% Intensity
			When CH 7 is 90–99:
		0–14	Blue
		15–29	Blue / Red
		30–44	Blue / White
		45–59	Blue / Amber
		60–74	Blue / White / Red
		75–89	Blue / Amber / Red
		90–104	Red / Amber
		105–119	Red
		120–134	Amber
		135–149	Magenta
		150–164	Green
		165–179	White
		180–244	RESERVED
		245–255	Colour Mode Slots to Set Colour
			When CH 7 is 100–109:
		0–1	0% Intensity
		2–126	0% Intensity ... 50% Intensity
		127–130	50% Intensity
		131–249	50% Intensity ... 100% Intensity

CH	Function	DMX	Description
9	FX Control 2 (continued)	250–255	100% Intensity
			When CH 7 is 110–119:
		0–1	0% Decay Speed
		2–126	0% Decay Speed ... 50% Decay Speed
		127–130	50% Decay Speed
		131–249	50% Decay Speed ... 100% Decay Speed
		250–255	100% Decay Speed
			When CH 7 is 120–129:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 7 is 130–139:
		0–1	0% Pulse Speed
		2–126	0% Pulse Speed ... 50% Pulse Speed
		127–130	50% Pulse Speed
		131–249	50% Pulse Speed ... 100% Pulse Speed
		250–255	100% Pulse Speed
10	FX Control 3		When CH 7 is 20–29:
		0–254	Run
		255	Restart Effect
			When CH 7 is 30–39:
		0–1	0% Variation
		2–63	0% Variation ... 25% Varitation
		64	25% Varitation
		65–126	25% Varitation ... 50% Variation
		127	50% Variation
		128–190	50% Variation ... 75% Variation
		191	75% Variation
		192–254	75% Variation ... 100% Variation
		255	100% Variation
			When CH 7 is 40–49:
		0–1	1 Frame Off
		2–126	1 Frame Off ... 127 Frames Off
		127	127 Frames Off
		128–254	127 Frames Off ... 255 Frames Off
		255	255 Frames Off
			When CH 7 is 50–59:
		0–127	Normal Level
		128–255	Flash Level

CH	Function	DMX	Description
10	FX Control 3 (continued)		When CH 7 is 60–69:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 7 is 70–79:
		0–254	Run
		255	Effect Restart
			When CH 7 is 80–89:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 7 is 90–99:
		0–9	1 Flash
		10–19	2 Flash
		20–29	3 Flash
		30–39	4 Flash
		40–49	5 Flash
		50–59	6 Flash
		60–69	7 Flash
		70–79	8 Flash
		80–89	9 Flash
		90–99	10 Flash
		100–109	11 Flash
		110–119	12 Flash
		120–129	13 Flash
		130–139	14 Flash
		140–149	15 Flash
		150–159	16 Flash
		160–169	17 Flash
		170–179	18 Flash
		180–189	19 Flash
		190–199	20 Flash
		200–255	RESERVED
			When CH 7 is 100–109:
		0–1	2200k
		2–126	2200k ... 3900k
		127	3900k
		128–254	3900k ... 10000k
		255	10000k
			When CH 7 is 110–119:

CH	Function	DMX	Description
10	FX Control 3 (continued)	0–1	1700k
		2–243	1700k ... 15000k
		244	15000k
		245–255	Use Colour Mode Slots For Colour
			When CH 7 is 120–129:
		0–39	Immediate Transistion
		40–79	Fade Transition
		80–119	Fade - Random Transition Speed
		120–255	RESERVED
11	FX Control 4		When CH 7 is 40–49:
		0	0 Frames Offset
		1–127	0 Frames Offset ... 128 Frames Offset
		128	128 Frames Offset
		129–254	128 Frames Offset ... 255 Frames Offset
		255	255 Frames Offset
			When CH 7 is 60–69:
		0–127	Trigger Off
		128–255	Trigger On
			When CH 7 is 80–89:
		0–1	1400k
		2–121	1400k ... 2100k
		122	2100k
		123–243	2100k ... 5600k
		244	5600k
		245–255	Colour Mode Slots for Colour
			When CH 7 is 90–99:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 7 is 120–129:
		0–1	0% Transition Speed
		2–126	0% Transition Speed ... 50% Transition Speed
		127–128	50% Transition Speed
		129–253	50% Transition Speed ... 100% Transition Speed
		254–255	100% Transition Speed

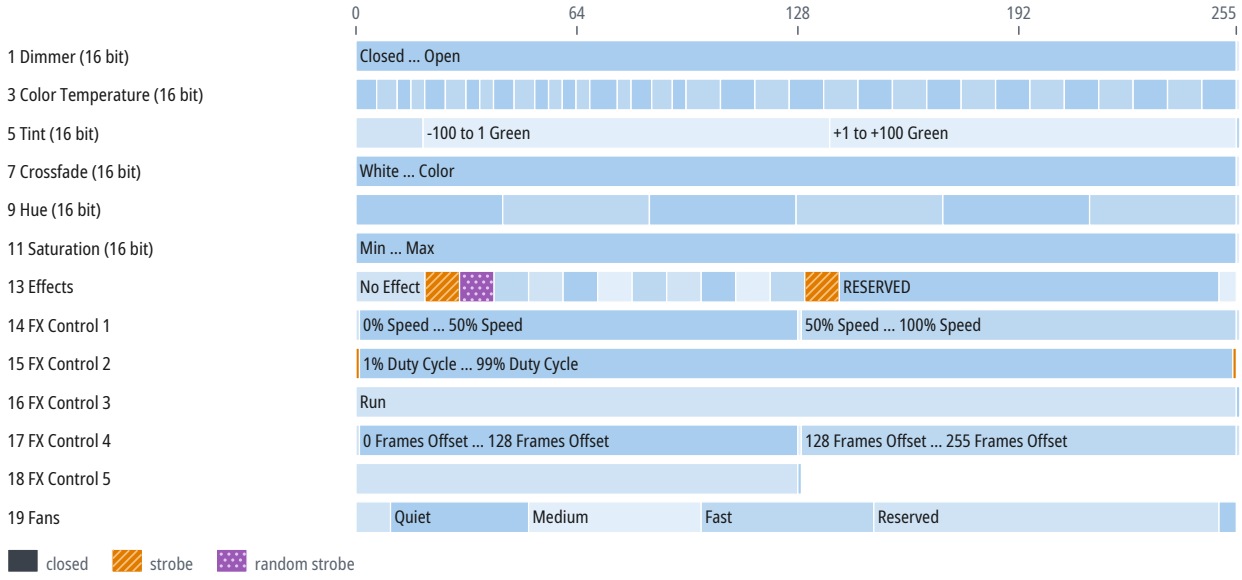
CH	Function	DMX	Description
12	FX Control 5		When CH 7 is 40–49:
		0–127	Effect Enable
		128–255	Effect Disable
			When CH 7 is 90–99:
		0–1	0 Seconds Pause
		2–126	0 Seconds Pause ... 1 Second Pause
		127–128	1 Second Pause
		129–253	1 Second Pause ... 2 Seconds Pause
		254–255	2 Seconds Pause
13	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Color Temperature 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 5 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)

CH	Function	DMX	Description
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Crossfade		Same as CH 7 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
8	Crossfade Fine	0–255	Fine adjustment of CH 7
9	Hue		Same as CH 9 in the mode “Mode 8: CCT Hue/Saturation (13ch) 16 Bit” (p. 18)
10	Hue Fine	0–255	Fine adjustment of CH 9
11	Saturation		Same as CH 11 in the mode “Mode 8: CCT Hue/Saturation (13ch) 16 Bit” (p. 18)
12	Saturation Fine	0–255	Fine adjustment of CH 11
13	Effects		Same as CH 7 in the mode “Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit” (p. 24)
14	FX Control 1		When CH 13 is 20–29:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 13 is 30–39:
		0–1	05 Flashes Per Second
		2–253	05 Flashes Per Second ... 5Hz Flashes Per Second
		254–255	5Hz Flashes Per Second
			When CH 13 is 40–49:
		0	0% Off Level
		1–127	0% Off Level ... 50% Off Level
		128	50% Off Level
		129–254	50% Off Level ... 100% Off Level
		255	100% Off Level
			When CH 13 is 50–59:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%
		127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 13 is 60–69:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%
		127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 13 is 70–79:
		0–1	0% Speed
		2–119	0% Speed ... 50% Speed

CH	Function	DMX	Description
14	FX Control 1 (continued)	120–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 13 is 80–89:
		0–19	Custom
		20–39	Candle Calm
		40–59	Candle Windy
		60–79	Fireplace
		80–99	Campfire
		100–119	Bon Fire
		120–139	Inferno
		140–159	Gas Fire
		160–179	RESERVED
		180–255	Candle and Fire
			When CH 13 is 90–99:
		0–9	Custom
		10–19	Blue Slow
		20–29	Blue Fast
		30–39	Blue Double
		40–49	Blue Burst
		50–59	Blue/Red Slow
		60–69	Blue/Red Fast
		70–79	Blue/Red Double
		80–89	Blue/Red Burst
		90–99	Blue/Red Rapid
		100–109	Blue/Red/White Rapid
		110–119	Red Warning
		120–129	Amber Ping
		130–139	Magenta Burst
		140–255	RESERVED
			When CH 13 is 100–109:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 13 is 110–119:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed

CH	Function	DMX	Description
14	FX Control 1 (continued)	250–255	100% Speed
			When CH 13 is 120–129:
		0–19	Primary 6
		20–39	Primary 12
		40–59	Primary 24
		60–79	Warm
		80–99	Cool
		100–119	Warm and Cool
		120–139	Pastel
		140–159	Purple Rain
		160–179	Ultra Violet
		180–255	RESERVED
			When CH 13 is 130–139:
		0–1	0% Frequency
		2–127	0% Frequency ... 50% Frequency
		128–130	50% Frequency
		131–249	50% Frequency ... 100% Frequency
		250–255	100% Frequency
			When CH 13 is 250–255:
		0	0 Sync Phase
		1–127	0 Sync Phase ... 180 Sync Phase
		128	180 Sync Phase
		129–254	180 Sync Phase ... 360 Sync Phase
		255	360 Sync Phase
15	FX Control 2		When CH 13 is 20–29:
		0	1% Duty Cycle
		1–253	1% Duty Cycle ... 99% Duty Cycle
		254–255	99% Duty Cycle
			When CH 13 is 30–39:
		0–1	1ms Flash Length
		2–63	1ms Flash Length ... 50ms Flash Length
		64	50ms Flash Length
		65–126	50ms Flash Length ... 100ms Flash Length
		127	100ms Flash Length
		128–190	100ms Flash Length ... 150ms Flash Length
		191	150ms Flash Length
		192–254	150ms Flash Length ... 200ms Flash Length
		255	200ms Flash Length
			When CH 13 is 40–49:
		0–1	1 Frame On
		2–127	1 Frame On ... 128 Frames On

CH	Function	DMX	Description
15	FX Control 2 (continued)	128	128 Frames On
		129–254	128 Frames On ... 255 Frames On
		255	255 Frames On
			When CH 13 is 50–59:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 13 is 60–69:
		0–9	1/5000
		10–19	1/2000
		20–29	1/1000
		30–39	1/800
		40–49	1/500
		50–59	1/320
		60–69	1/250
		70–79	1/125
		80–89	1/60
		90–99	1/30
		100–109	1/15
		110–119	1/10
		120–129	1/5
		130–255	RESERVED
			When CH 13 is 70–79:
		0	0deg Red
		1–41	0deg Red ... 60deg Yellow
		42	60deg Yellow
		43–84	60deg Yellow ... 120deg Green
		85	120deg Green
		86–126	120deg Green ... 180deg Cyan
		127	180deg Cyan
		128–169	180deg Cyan ... 240deg Blue
		170	240deg Blue
		171–211	240deg Blue ... 300deg Magenta
		212	300deg Magenta
		213–254	300deg Magenta ... 360deg Red
		255	360deg Red
			When CH 13 is 80–89:
		0–1	0% Intensity
		2–127	0% Intensity ... 50% Intensity
		128–130	50% Intensity
		131–249	50% Intensity ... 100% Intensity
		250–255	100% Intensity

CH	Function	DMX	Description
15	FX Control 2 (continued)		When CH 13 is 90–99:
		0–14	Blue
		15–29	Blue / Red
		30–44	Blue / White
		45–59	Blue / Amber
		60–74	Blue / White / Red
		75–89	Blue / Amber / Red
		90–104	Red / Amber
		105–119	Red
		120–134	Amber
		135–149	Magenta
		150–164	Green
		165–179	White
		180–244	RESERVED
		245–255	Colour Mode Slots to Set Colour
			When CH 13 is 100–109:
		0–1	0% Intensity
		2–126	0% Intensity ... 50% Intensity
		127–130	50% Intensity
		131–249	50% Intensity ... 100% Intensity
		250–255	100% Intensity
			When CH 13 is 110–119:
		0–1	0% Decay Speed
		2–126	0% Decay Speed ... 50% Decay Speed
		127–130	50% Decay Speed
		131–249	50% Decay Speed ... 100% Decay Speed
		250–255	100% Decay Speed
			When CH 13 is 120–129:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 13 is 130–139:
		0–1	0% Pulse Speed
		2–126	0% Pulse Speed ... 50% Pulse Speed
		127–130	50% Pulse Speed
		131–249	50% Pulse Speed ... 100% Pulse Speed
		250–255	100% Pulse Speed
16	FX Control 3		When CH 13 is 20–29:
		0–254	Run

CH	Function	DMX	Description
16	FX Control 3 (continued)	255	Restart Effect
			When CH 13 is 30–39:
		0–1	0% Variation
		2–63	0% Variation ... 25% Varitation
		64	25% Varitation
		65–126	25% Varitation ... 50% Variation
		127	50% Variation
		128–190	50% Variation ... 75% Variation
		191	75% Variation
		192–254	75% Variation ... 100% Variation
		255	100% Variation
			When CH 13 is 40–49:
		0–1	1 Frame Off
		2–126	1 Frame Off ... 127 Frames Off
		127	127 Frames Off
		128–254	127 Frames Off ... 255 Frames Off
		255	255 Frames Off
			When CH 13 is 50–59:
		0–127	Normal Level
		128–255	Flash Level
			When CH 13 is 60–69:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 13 is 70–79:
		0–254	Run
		255	Effect Restart
			When CH 13 is 80–89:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 13 is 90–99:
		0–9	1 Flash
		10–19	2 Flash
		20–29	3 Flash
		30–39	4 Flash
		40–49	5 Flash
		50–59	6 Flash
		60–69	7 Flash
		70–79	8 Flash

CH	Function	DMX	Description
16	FX Control 3 (continued)	80–89	9 Flash
		90–99	10 Flash
		100–109	11 Flash
		110–119	12 Flash
		120–129	13 Flash
		130–139	14 Flash
		140–149	15 Flash
		150–159	16 Flash
		160–169	17 Flash
		170–179	18 Flash
		180–189	19 Flash
		190–199	20 Flash
		200–255	RESERVED
			When CH 13 is 100–109:
		0–1	2200k
		2–126	2200k ... 3900k
		127	3900k
		128–254	3900k ... 10000k
		255	10000k
			When CH 13 is 110–119:
		0–1	1700k
		2–243	1700k ... 15000k
		244	15000k
		245–255	Use Colour Mode Slots For Colour
			When CH 13 is 120–129:
		0–39	Immediate Transistion
		40–79	Fade Transition
		80–119	Fade - Random Transition Speed
		120–255	RESERVED
17	FX Control 4		When CH 13 is 40–49:
		0	0 Frames Offset
		1–127	0 Frames Offset ... 128 Frames Offset
		128	128 Frames Offset
		129–254	128 Frames Offset ... 255 Frames Offset
		255	255 Frames Offset
			When CH 13 is 60–69:
		0–127	Trigger Off
		128–255	Trigger On
			When CH 13 is 80–89:
		0–1	1400k
		2–121	1400k ... 2100k
		122	2100k

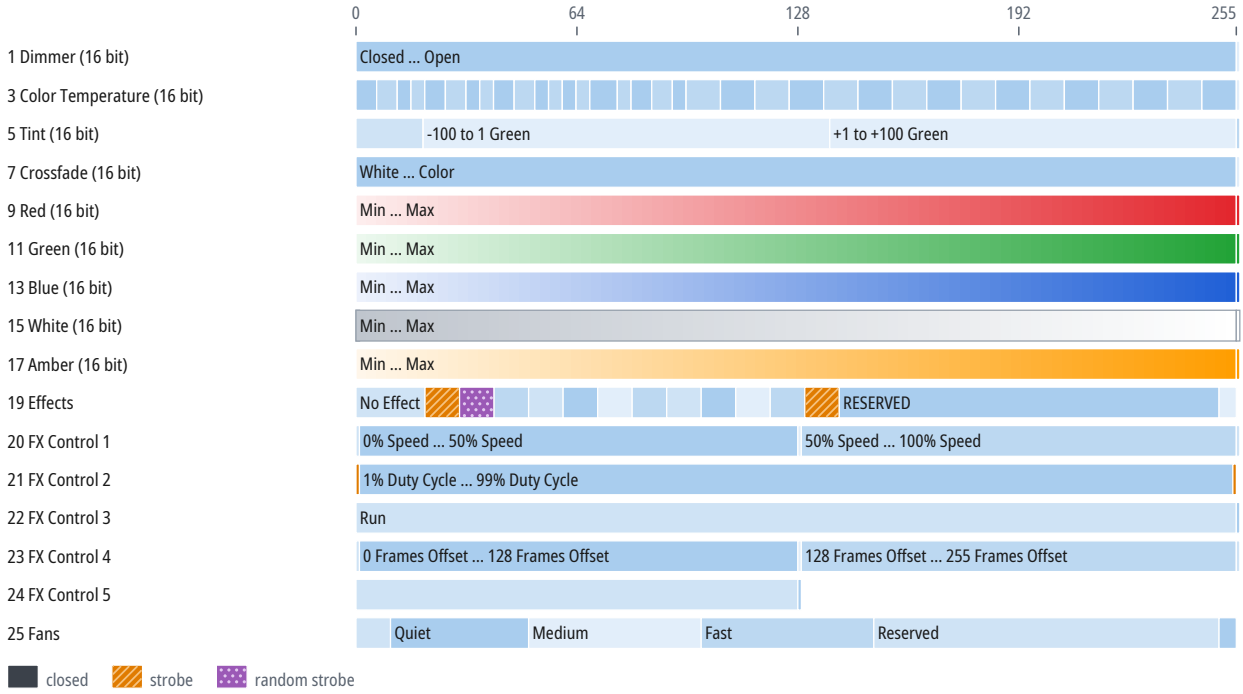
CH	Function	DMX	Description
17	FX Control 4 (continued)	123–243	2100k ... 5600k
		244	5600k
		245–255	Colour Mode Slots for Colour
			When CH 13 is 90–99:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 13 is 120–129:
		0–1	0% Transition Speed
		2–126	0% Transition Speed ... 50% Transition Speed
		127–128	50% Transition Speed
		129–253	50% Transition Speed ... 100% Transition Speed
		254–255	100% Transition Speed
18	FX Control 5		When CH 13 is 40–49:
		0–127	Effect Enable
		128–255	Effect Disable
			When CH 13 is 90–99:
		0–1	0 Seconds Pause
		2–126	0 Seconds Pause ... 1 Second Pause
		127–128	1 Second Pause
		129–253	1 Second Pause ... 2 Seconds Pause
		254–255	2 Seconds Pause
19	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 19: CCT RGBW Effects (25ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Color Temperature 255, CH 9 Red 255, CH 11 Green 255, CH 13 Blue 255, CH 15 White 255, CH 17 Amber 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 5 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Crossfade		Same as CH 7 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
8	Crossfade Fine	0–255	Fine adjustment of CH 7
9	Red		Same as CH 9 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
10	Red Fine	0–255	Fine adjustment of CH 9
11	Green		Same as CH 11 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
12	Green Fine	0–255	Fine adjustment of CH 11
13	Blue		Same as CH 13 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)

CH	Function	DMX	Description
14	Blue Fine	0–255	Fine adjustment of CH 13
15	White		Same as CH 15 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
16	White Fine	0–255	Fine adjustment of CH 15
17	Amber		Same as CH 17 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 17)
18	Amber Fine	0–255	Fine adjustment of CH 17
19	Effects		Same as CH 7 in the mode “Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit” (p. 24)
20	FX Control 1		When CH 19 is 20–29:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 19 is 30–39:
		0–1	05 Flashes Per Second
		2–253	05 Flashes Per Second ... 5Hz Flashes Per Second
		254–255	5Hz Flashes Per Second
			When CH 19 is 40–49:
		0	0% Off Level
		1–127	0% Off Level ... 50% Off Level
		128	50% Off Level
		129–254	50% Off Level ... 100% Off Level
		255	100% Off Level
			When CH 19 is 50–59:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%
		127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 19 is 60–69:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%
		127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 19 is 70–79:
		0–1	0% Speed
		2–119	0% Speed ... 50% Speed
		120–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed

CH	Function	DMX	Description
20	FX Control 1 (continued)		When CH 19 is 80–89:
		0–19	Custom
		20–39	Candle Calm
		40–59	Candle Windy
		60–79	Fireplace
		80–99	Campfire
		100–119	Bon Fire
		120–139	Inferno
		140–159	Gas Fire
		160–179	RESERVED
		180–255	Candle and Fire
			When CH 19 is 90–99:
		0–9	Custom
		10–19	Blue Slow
		20–29	Blue Fast
		30–39	Blue Double
		40–49	Blue Burst
		50–59	Blue/Red Slow
		60–69	Blue/Red Fast
		70–79	Blue/Red Double
		80–89	Blue/Red Burst
		90–99	Blue/Red Rapid
		100–109	Blue/Red/White Rapid
		110–119	Red Warning
		120–129	Amber Ping
		130–139	Magenta Burst
		140–255	RESERVED
			When CH 19 is 100–109:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 19 is 110–119:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 19 is 120–129:
		0–19	Primary 6

CH	Function	DMX	Description
20	FX Control 1 (continued)	20–39	Primary 12
		40–59	Primary 24
		60–79	Warm
		80–99	Cool
		100–119	Warm and Cool
		120–139	Pastel
		140–159	Purple Rain
		160–179	Ultra Violet
		180–255	RESERVED
			When CH 19 is 130–139:
		0–1	0% Frequency
		2–127	0% Frequency ... 50% Frequency
		128–130	50% Frequency
		131–249	50% Frequency ... 100% Frequency
		250–255	100% Frequency
			When CH 19 is 250–255:
		0	0 Sync Phase
		1–127	0 Sync Phase ... 180 Sync Phase
		128	180 Sync Phase
		129–254	180 Sync Phase ... 360 Sync Phase
		255	360 Sync Phase
21	FX Control 2		When CH 19 is 20–29:
		0	1% Duty Cycle
		1–253	1% Duty Cycle ... 99% Duty Cycle
		254–255	99% Duty Cycle
			When CH 19 is 30–39:
		0–1	1ms Flash Length
		2–63	1ms Flash Length ... 50ms Flash Length
		64	50ms Flash Length
		65–126	50ms Flash Length ... 100ms Flash Length
		127	100ms Flash Length
		128–190	100ms Flash Length ... 150ms Flash Length
		191	150ms Flash Length
		192–254	150ms Flash Length ... 200ms Flash Length
		255	200ms Flash Length
			When CH 19 is 40–49:
		0–1	1 Frame On
		2–127	1 Frame On ... 128 Frames On
		128	128 Frames On
		129–254	128 Frames On ... 255 Frames On
		255	255 Frames On

CH	Function	DMX	Description
21	FX Control 2 (continued)		When CH 19 is 50–59:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 19 is 60–69:
		0–9	1/5000
		10–19	1/2000
		20–29	1/1000
		30–39	1/800
		40–49	1/500
		50–59	1/320
		60–69	1/250
		70–79	1/125
		80–89	1/60
		90–99	1/30
		100–109	1/15
		110–119	1/10
		120–129	1/5
		130–255	RESERVED
			When CH 19 is 70–79:
		0	0deg Red
		1–41	0deg Red ... 60deg Yellow
		42	60deg Yellow
		43–84	60deg Yellow ... 120deg Green
		85	120deg Green
		86–126	120deg Green ... 180deg Cyan
		127	180deg Cyan
		128–169	180deg Cyan ... 240deg Blue
		170	240deg Blue
		171–211	240deg Blue ... 300deg Magenta
		212	300deg Magenta
		213–254	300deg Magenta ... 360deg Red
		255	360deg Red
			When CH 19 is 80–89:
		0–1	0% Intensity
		2–127	0% Intensity ... 50% Intensity
		128–130	50% Intensity
		131–249	50% Intensity ... 100% Intensity
		250–255	100% Intensity
			When CH 19 is 90–99:
		0–14	Blue
		15–29	Blue / Red

CH	Function	DMX	Description
21	FX Control 2 (continued)	30–44	Blue / White
		45–59	Blue / Amber
		60–74	Blue / White / Red
		75–89	Blue / Amber / Red
		90–104	Red / Amber
		105–119	Red
		120–134	Amber
		135–149	Magenta
		150–164	Green
		165–179	White
		180–244	RESERVED
		245–255	Colour Mode Slots to Set Colour
			When CH 19 is 100–109:
		0–1	0% Intensity
		2–126	0% Intensity ... 50% Intensity
		127–130	50% Intensity
		131–249	50% Intensity ... 100% Intensity
		250–255	100% Intensity
			When CH 19 is 110–119:
		0–1	0% Decay Speed
		2–126	0% Decay Speed ... 50% Decay Speed
		127–130	50% Decay Speed
		131–249	50% Decay Speed ... 100% Decay Speed
		250–255	100% Decay Speed
			When CH 19 is 120–129:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 19 is 130–139:
		0–1	0% Pulse Speed
		2–126	0% Pulse Speed ... 50% Pulse Speed
		127–130	50% Pulse Speed
		131–249	50% Pulse Speed ... 100% Pulse Speed
		250–255	100% Pulse Speed
22	FX Control 3		When CH 19 is 20–29:
		0–254	Run
		255	Restart Effect
			When CH 19 is 30–39:
		0–1	0% Variation

CH	Function	DMX	Description
22	FX Control 3 (continued)	2–63	0% Variation ... 25% Varitation
		64	25% Varitation
		65–126	25% Varitation ... 50% Variation
		127	50% Variation
		128–190	50% Variation ... 75% Variation
		191	75% Variation
		192–254	75% Variation ... 100% Variation
		255	100% Variation
			When CH 19 is 40–49:
		0–1	1 Frame Off
		2–126	1 Frame Off ... 127 Frames Off
		127	127 Frames Off
		128–254	127 Frames Off ... 255 Frames Off
		255	255 Frames Off
			When CH 19 is 50–59:
		0–127	Normal Level
		128–255	Flash Level
			When CH 19 is 60–69:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 19 is 70–79:
		0–254	Run
		255	Effect Restart
			When CH 19 is 80–89:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 19 is 90–99:
		0–9	1 Flash
		10–19	2 Flash
		20–29	3 Flash
		30–39	4 Flash
		40–49	5 Flash
		50–59	6 Flash
		60–69	7 Flash
		70–79	8 Flash
		80–89	9 Flash
		90–99	10 Flash
		100–109	11 Flash

CH	Function	DMX	Description
22	FX Control 3 (continued)	110–119	12 Flash
		120–129	13 Flash
		130–139	14 Flash
		140–149	15 Flash
		150–159	16 Flash
		160–169	17 Flash
		170–179	18 Flash
		180–189	19 Flash
		190–199	20 Flash
		200–255	RESERVED
			When CH 19 is 100–109:
		0–1	2200k
		2–126	2200k ... 3900k
		127	3900k
		128–254	3900k ... 10000k
		255	10000k
			When CH 19 is 110–119:
		0–1	1700k
		2–243	1700k ... 15000k
		244	15000k
		245–255	Use Colour Mode Slots For Colour
			When CH 19 is 120–129:
		0–39	Immediate Transistion
		40–79	Fade Transition
		80–119	Fade - Random Transition Speed
		120–255	RESERVED
23	FX Control 4		When CH 19 is 40–49:
		0	0 Frames Offset
		1–127	0 Frames Offset ... 128 Frames Offset
		128	128 Frames Offset
		129–254	128 Frames Offset ... 255 Frames Offset
		255	255 Frames Offset
			When CH 19 is 60–69:
		0–127	Trigger Off
		128–255	Trigger On
			When CH 19 is 80–89:
		0–1	1400k
		2–121	1400k ... 2100k
		122	2100k
		123–243	2100k ... 5600k
		244	5600k

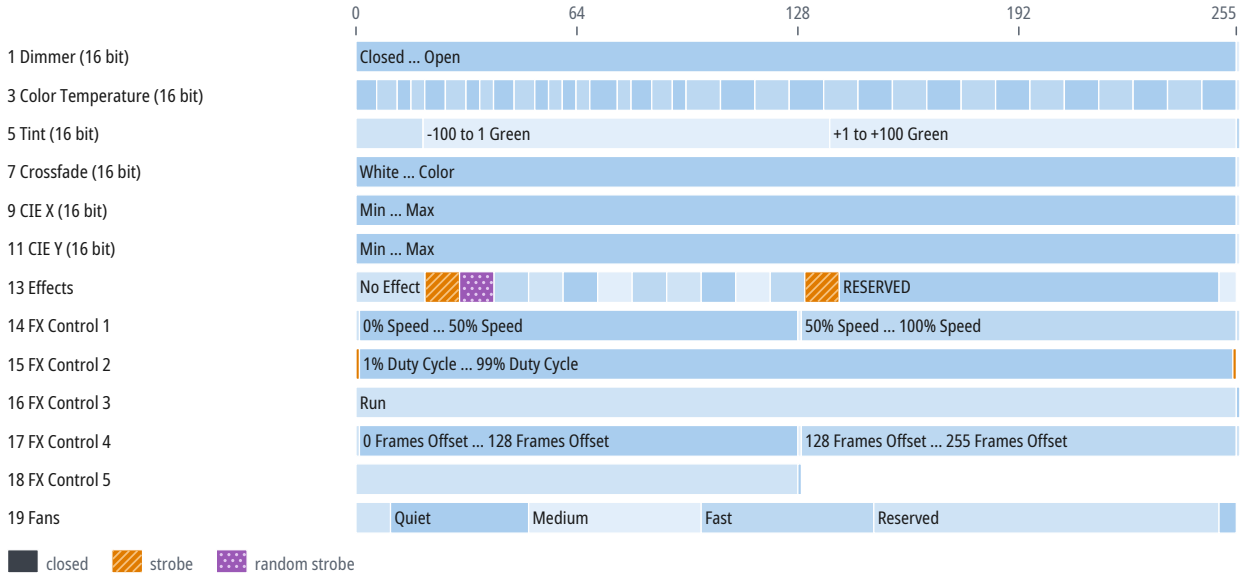
CH	Function	DMX	Description
23	FX Control 4 (continued)	245–255	Colour Mode Slots for Colour
			When CH 19 is 90–99:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 19 is 120–129:
		0–1	0% Transition Speed
		2–126	0% Transition Speed ... 50% Transition Speed
		127–128	50% Transition Speed
		129–253	50% Transition Speed ... 100% Transition Speed
		254–255	100% Transition Speed
24	FX Control 5		When CH 19 is 40–49:
		0–127	Effect Enable
		128–255	Effect Disable
			When CH 19 is 90–99:
		0–1	0 Seconds Pause
		2–126	0 Seconds Pause ... 1 Second Pause
		127–128	1 Second Pause
		129–253	1 Second Pause ... 2 Seconds Pause
		254–255	2 Seconds Pause
25	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 20: CCT CIE xy Effects (19ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Color Temperature 255.

Channel functions at a glance



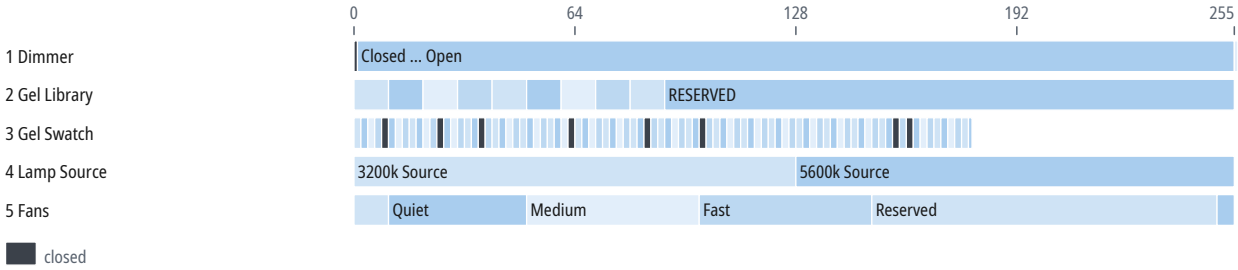
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 5 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Crossfade		Same as CH 7 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
8	Crossfade Fine	0–255	Fine adjustment of CH 7
9	CIE X		Same as CH 3 in the mode “Mode 13: CIE xy (7ch) 16 Bit” (p. 22)
10	CIE X Fine	0–255	Fine adjustment of CH 9
11	CIE Y		Same as CH 5 in the mode “Mode 13: CIE xy (7ch) 16 Bit” (p. 22)
12	CIE Y Fine	0–255	Fine adjustment of CH 11
13	Effects		Same as CH 7 in the mode “Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit” (p. 24)
14	FX Control 1		Same as CH 14 in the mode “Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit” (p. 50)

CH	Function	DMX	Description
15	FX Control 2		Same as CH 15 in the mode “Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit” (p. 52)
16	FX Control 3		Same as CH 16 in the mode “Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit” (p. 54)
17	FX Control 4		Same as CH 17 in the mode “Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit” (p. 56)
18	FX Control 5		Same as CH 18 in the mode “Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit” (p. 57)
19	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 21: Gels (5ch) 8 Bit

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

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Gel Library	0–9	Lee Colour Filters
		10–19	Lee Cosmetic
		20–29	Lee 600 Series
		30–39	Lee 700 Series
		40–49	Lee Colour Correction
		50–59	Rosco Cinelux
		60–69	Rosco CalColour
		70–79	Rosco Storaro Selection
		80–89	Rosco Colour Correction
		90–255	RESERVED
3	Gel Swatch		When CH 2 is 0–9:
		0–1	001 -Rose Pink
		2–3	002 - Lavender Tint
		4–5	004 - Medium Bastard Amber
		6–7	007 - Pale Yellow
		8–9	008 - Dark Salmon
		10–11	009 - Pale Amber Gold
		12–13	010 - Medium Yellow

CH	Function	DMX	Description
3	Gel Swatch (continued)	14–15	013 - Straw Tint
		16–17	017 - Surprise Peach
		18–19	019 - Fire
		20–21	020 - Medium Amber
		22–23	021 - Gold Amber
		24–25	022 - Dark Amber
		26–27	024 - Scarlet
		28–29	025 - Sunset Red
		30–31	026 - Bright Red
		32–33	035 - Light Pink
		34–35	036 - Medium Pink
		36–37	046 - Dark Magenta
		38–39	048 - Rose Purple
		40–41	052 - Light Lavender
		42–43	053 - Paler Lavender
		44–45	058 - Lavender
		46–47	061 - Mist Blue
		48–49	063 - Pale Blue
		50–51	068 - Sky Blue
		52–53	075 - Evening Bllue
		54–55	079 - Just Blue
		56–57	085 - Deeper Blue
		58–59	088 - Lime Green
		60–61	089 - Moss Green
		62–63	092 - Dark Yellow Green
		64–65	100 - Spring Yellow
		66–67	101 - Yellow
		68–69	102 - Light Amber
		70–71	103 - Straw
		72–73	104 - Deep Amber
		74–75	106 - Primary Red
		76–77	107 - Light Rose
		78–79	108 - English Rose
		80–81	109 - Light Salmon
		82–83	110 - Middle Rose
		84–85	111 - Dark Pink
		86–87	113 - Magenta
		88–89	115 - Peacock Blue
		90–91	117 - Steel Blue
		92–93	118 - Light Blue
		94–95	120 - Deep Blue

CH	Function	DMX	Description
3	Gel Swatch (continued)	96–97	121 - Lee Green
		98–99	122 - Fern Green
		100–101	124 - Dark Green
		102–103	127 - Smokey Pink
		104–105	128 - Bright Pink
		106–107	131 - Marine Blue
		108–109	134 - Golden Amber
		110–111	135 - Golden Amber
		112–113	136 - Pale Lavender
		114–115	137 - Special Lavender
		116–117	138 - Pale Green
		118–119	140 - Summer Blue
		120–121	142 - Pale Violet
		122–123	143 - Pale Navy Blue
		124–125	144 - No Colour Blue
		126–127	147 - Apricot
		128–129	148 - Bright Rose
		130–131	151 - Gold Tint
		132–133	152 - Pale Gold
		134–135	153 - Pale Salmon
		136–137	154 - Pale Rose
		138–139	156 - Chocolate
		140–141	157 - Pink
		142–143	159 - No Colour Straw
		144–145	161 - Slate Blue
		146–147	162 - Bastard Amber
		148–149	164 - Flame Red
		150–151	165 - Daylight Blue
		152–153	169 - Lilac Tint
		154–155	170 - Deep Lavender
		156–157	174 - Dark Steel Blue
		158–159	176 - Loving Amber
		160–161	180 - Dark Lavender
		162–163	182 - Light Red
		164–165	192 - Flesh Pink
		166–167	194 - Surprise Pink
		168–169	195 - Zenith Blue
		170–171	196 - True Blue
		172–173	197 - Alice Blue
		174–175	198 - Palace Blue
		176–177	199 - Regal Blue

CH	Function	DMX	Description
3	Gel Swatch (continued)	178–255	RESERVED
			When CH 2 is 10–19:
		0–1	184 - Cosmetic Peach
		2–3	186 - Cosmetic Silver Rose
		4–5	187 - Cosmetic Rouge
		6–7	188 - Cosmetic Highlight
		8–9	189 - Cosmetic Silver Moss
		10–11	191 - Cosmetic Aqua Blue
		12–13	705 - Lily Frost
		14–15	717 - Shanklin Frost
		16–17	718 - Hlaf Shanklin Frost
		18–19	720 - Durham Daylight Frost
		20–21	749 - Hampshire Rose
		22–23	750 - Durham Frost
		24–25	774 - Soft Amber Key 1
		26–27	775 - Soft Amber Key 2
		28–29	791 - Moroccan Frost
		30–31	217 - Blue Diffusion
		32–33	221 - Blue Frost
		34–35	224 - Daylight Blue Frost
		36–255	RESERVED
			When CH 2 is 20–29:
		0–1	600 - Arctic White
		2–3	601 - Silver
		4–5	602 - Platinum
		6–7	603 - Moonlight White
		8–9	604 - Full CT 85
		10–11	650 - Industry Sodium
		12–13	651 - Hi Sodium
		14–15	652 - Urban Sodium
		16–17	653 - Lo Sodium
		18–255	RESERVED
			When CH 2 is 30–39:
		0–1	700 - Perfect Lavender
		2–3	701 - Provence
		4–5	702 - Special Pale Lavender
		6–7	703 - Cold Lavender
		8–9	704 - Lily
		10–11	706 - King Fals Lavender
		12–13	708 - Cool Lavender
		14–15	709 - Electric Lilac
		16–17	710 - Spir Special Blue

CH	Function	DMX	Description
3	Gel Swatch (continued)	18–19	711 - Cold Blue
		20–21	712 - Bedford Blue
		22–23	714 - Elysian Blue
		24–25	715 - Cabana Blue
		26–27	716 - Mikkel Blue
		28–29	719 - Colour Wash Blue
		30–31	721 - Berry Blue
		32–33	723 - Virgin Blue
		34–35	724 - Ocean Blue
		36–37	725 - Old Steel Blue
		38–39	728 - Steel Green
		40–41	730 - Liberty Green
		42–43	731 - Dirty Ice
		44–45	733 - Damp Squib
		46–47	738 - JAS Green
		48–49	742 - Bram Brown
		50–51	744 - Dirty White
		52–53	746 - Brown
		54–55	747 - Easy White
		56–57	748 - Seedy Pink
		58–59	763 - Wheat
		60–61	764 - Sun Colour Straw
		62–63	765 - Lee Yellow
		64–65	773 - Cardbox Amber
		66–67	776 - Nectarine
		68–69	778 - Millenium Gold
		70–71	779 - Bastard Pink
		72–73	781 - Terry Red
		74–75	789 - Blood Red
		76–77	790 - Moroccan Pink
		78–79	794 - Pretty n Pink
		80–81	795 - Magical Magenta
		82–255	RESERVED
			When CH 2 is 40–49:
		0–1	200 - Double CTB
		2–3	201 - Full CTB
		4–5	281 - 3/4 CTB
		6–7	202 - 1/2 CTB
		8–9	203 - 1/4 CTB
		10–11	218 - 1/8 CTB
		12–13	287 - Double CTO
		14–15	204 - Full CTO

CH	Function	DMX	Description
3	Gel Swatch (continued)	16–17	285 - 3/4 CTO
		18–19	205 - 1/2 CTO
		20–21	206 - 1/4 CTO
		22–23	223 - 1/8 CTO
		24–25	283 - 1 1/2 CTB
		26–27	286 - 1 1/2 CTO
		28–29	441 - Full CTS
		30–31	442 - 1/2 CTS
		32–33	443 - 1/4 CTS
		34–35	444 - 1/8 CTS
		36–37	207 - Full CTO + 3ND
		38–39	208 - Full CTO + 6ND
		40–41	212 - LCT Yellow Y1
		42–43	213 - White Flame Green
		44–45	219 - Lee Fluro Green
		46–47	230 - Super Correct LCT Yellow
		48–49	232 - Super Correct WF Green
		50–51	236 - HMI to Tungsten
		52–53	237 - CID to Tungsten
		54–55	238 - CSI to Tungsten
		56–57	241 - Lee Fluro 5700k
		58–59	242 - Lee Fluro 4300k
		60–61	243 - Lee Fluro 3600k
		62–63	244 - Lee Plus Green
		64–65	245 - 1/2 Plus Green
		66–67	246 - 1/4 Plus Green
		68–69	278 - 1/8 Plus Green
		70–71	247 - Lee Minus Green
		72–73	248 - 1/2 Minus Green
		74–75	249 - 1/4 Minus Green
		76–77	279 - 1/8 Minus Green
		78–255	RESERVED
			When CH 2 is 50–59:
		0–1	002 - Bastard Amber
		2–3	302 - Pale Bastard Amber
		4–5	006 - No Colour straw
		6–7	008 - Pale Gold
		8–9	310 - Daffodil
		10–11	012 - Straw
		12–13	016 - Light Amber
		14–15	316 - Gallo Gold
		16–17	017 - Light Flame

CH	Function	DMX	Description
3	Gel Swatch (continued)	18–19	018 - Flame
		20–21	318 - Mayan Sun
		22–23	021 - Golden Amber
		24–25	321 - Soft Golden Amber
		26–27	023 - Orange
		28–29	325 - Henna Sky
		30–31	026 - Light Red
		32–33	033 - No Colour Pink
		34–35	333 - Blush Pink
		36–37	034 - Flesh Pink
		38–39	037 - Pale Rose Pink
		40–41	041 - Salmon
		42–43	042 - Deep Salmon
		44–45	044 - Middle Rose
		46–47	047 - Light Rose Purple
		48–49	051 - Surprise Pink
		50–51	060 - No Colour Blue
		52–53	360 - Clearwater
		54–55	062 - Booster Blue
		56–57	362 - Tipton Blue
		58–59	364 - Blue Bell
		60–61	065 - Daylight Blue
		62–63	365 - Tharon Delft Blue
		64–65	375 - Cerulean Blue
		66–67	376 - Bermuda Blue
		68–69	077 - Green Blue
		70–71	378 - Alice Blue
		72–73	080 - Primary Blue
		74–75	381 - Baldassari Blue
		76–77	083 - Medium Blue
		78–79	087 - Pale Yellow Green
		80–81	088 - Light Green
		82–83	089 - Moss Green
		84–85	091 - Primary Green
		86–87	092 - Turquoise
		88–89	093 - Blue Green
		90–91	099 - Chocolate
		92–255	RESERVED
			When CH 2 is 60–69:
		0–1	4215 - 15 Blue
		2–3	4230 - 30 Blue

CH	Function	DMX	Description
3	Gel Swatch (continued)	4–5	4260 - 60 Blue
		6–7	4290 - 90 Blue
		8–9	4307 - 7 Cyan
		10–11	4315 - 15 Cyan
		12–13	4330 - 30 Cyan
		14–15	4360 - 60 Cyan
		16–17	4390 - 90 Cyan
		18–19	4415 - 15 Green
		20–21	4430 - 30 Green
		22–23	4460 - 60 Green
		24–25	4490 - 90 Green
		26–27	4515 - 15 Yellow
		28–29	4430 - 30 Yellow
		30–31	4460 - 60 Yellow
		32–33	4590 - 90 Yellow
		34–35	4415 - 15 Green
		36–37	4430 - 30 Green
		38–39	4460 - 60 Green
		40–41	4490 - 90 Green
		42–43	4715 - 15 Magenta
		44–45	4730 - 30 Magenta
		46–47	4760 - 60 Magenta
		48–49	4790 - 90 Magenta
		50–51	4815 - 15 Pink
		52–53	4830 - 30 Pink
		54–55	4860 - 60 Pink
		56–57	4890 - 90 Pink
		58–59	4915 - 15 Lavender
		60–61	4930 - 30 Lavender
		62–63	4960 - 60 Lavender
		64–65	4990 - 90 Lavender
		66–255	RESERVED
			When CH 2 is 70–79:
		0–1	2001 - VS Red
		2–3	2002 - VS Orange
		4–5	2003 - VS Yellow
		6–7	2004 - VS Green
		8–9	2005 - VS Cyan
		10–11	2006 - VS Azure
		12–13	2007 - VS Blue
		14–15	2008 - VS Ingdigo

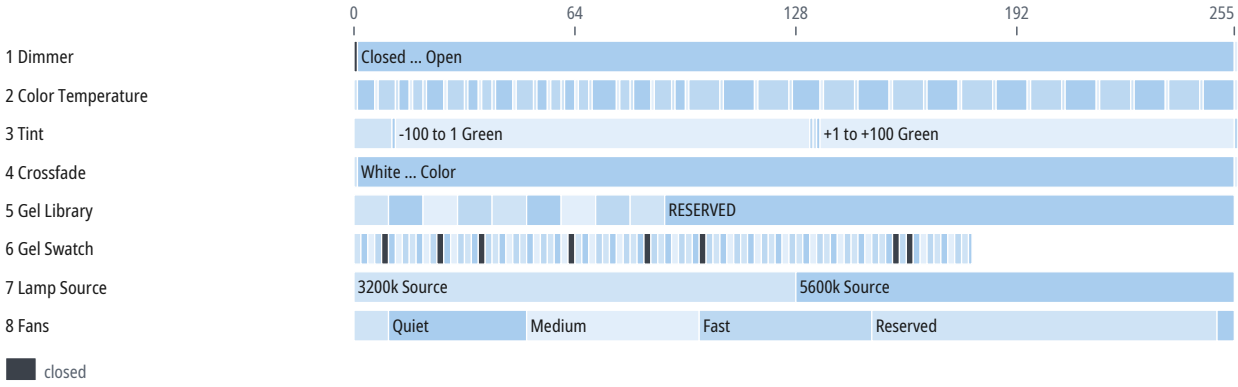
CH	Function	DMX	Description
3	Gel Swatch (continued)	16–17	2009 - VS Violet
		18–19	2010 - VS Magenta
		20–255	Empty Channel Set
			When CH 2 is 80–89:
		0–1	3202 - Full CTB
		2–3	3203 - 3/4 CTB
		4–5	3204 - 1/2 CTB
		6–7	3206 - 1/3 CTB
		8–9	3208 - 1/4 CTB
		10–11	3216 - 1/8 CTB
		12–13	3220 - Double CTB
		14–15	3407 - Full CTO
		16–17	3411 - 3/4 CTO
		18–19	3408 - 1/2 CTO
		20–21	3409 - 1/4 CTO
		22–23	3410 - 1/8 CTO
		24–25	3420 - Double CTO
		26–27	3441 - Full CTS
		28–29	3442 - 1/2 CTS
		30–31	3443 - 1/4 CTS
		32–33	3444 - 1/8 CTS
		34–35	3304 - Full Plus Green
		36–37	3315 - 1/2 Plus Green
		38–39	3316 - 1/4 Plus Green
		40–41	3317 - 1/8 Plus Green
		42–43	3308 - Full Minus Green
		44–45	3309 - 3/4 Minus Green
		46–47	3313 - 1/2 Minus Green
		48–49	3314 - 1/4 Minus Green
		50–51	3318 - 1/8 Minus Green
		52–53	3310 - Fluro Filter
		54–55	3150 - Imdustrial Vapour
		56–57	3152 - Urban Vapour
		58–59	3107 - Tough Y-1
		60–61	3134 - Tough MT54
		62–63	3106 - Tough MTY
		64–65	3102 - Tough MT2
		66–255	RESERVED

CH	Function	DMX	Description
4	Lamp Source	0–127	3200k Source
		128–255	5600k Source
5	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 22: CCT Gels (8 Ch) 8 Bit

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 2 Color Temperature 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Color Temperature		Same as CH 2 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
3	Tint		Same as CH 3 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
4	Crossfade		Same as CH 4 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
5	Gel Library		Same as CH 2 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 68)
6	Gel Swatch		When CH 5 is 0–9:
		0–1	001 -Rose Pink
		2–3	002 - Lavender Tint
		4–5	004 - Medium Bastard Amber
		6–7	007 - Pale Yellow
		8–9	008 - Dark Salmon
		10–11	009 - Pale Amber Gold
		12–13	010 - Medium Yellow
		14–15	013 - Straw Tint
		16–17	017 - Surprise Peach
		18–19	019 - Fire
		20–21	020 - Medium Amber

CH	Function	DMX	Description
6	Gel Swatch (continued)	22–23	021 - Gold Amber
		24–25	022 - Dark Amber
		26–27	024 - Scarlet
		28–29	025 - Sunset Red
		30–31	026 - Bright Red
		32–33	035 - Light Pink
		34–35	036 - Medium Pink
		36–37	046 - Dark Magenta
		38–39	048 - Rose Purple
		40–41	052 - Light Lavender
		42–43	053 - Paler Lavender
		44–45	058 - Lavender
		46–47	061 - Mist Blue
		48–49	063 - Pale Blue
		50–51	068 - Sky Blue
		52–53	075 - Evening Bllue
		54–55	079 - Just Blue
		56–57	085 - Deeper Blue
		58–59	088 - Lime Green
		60–61	089 - Moss Green
		62–63	092 - Dark Yellow Green
		64–65	100 - Spring Yellow
		66–67	101 - Yellow
		68–69	102 - Light Amber
		70–71	103 - Straw
		72–73	104 - Deep Amber
		74–75	106 - Primary Red
		76–77	107 - Light Rose
		78–79	108 - English Rose
		80–81	109 - Light Salmon
		82–83	110 - Middle Rose
		84–85	111 - Dark Pink
		86–87	113 - Magenta
		88–89	115 - Peacock Blue
		90–91	117 - Steel Blue
		92–93	118 - Light Blue
		94–95	120 - Deep Blue
		96–97	121 - Lee Green
		98–99	122 - Fern Green
		100–101	124 - Dark Green
		102–103	127 - Smokey Pink

CH	Function	DMX	Description
6	Gel Swatch (continued)	104–105	128 - Bright Pink
		106–107	131 - Marine Blue
		108–109	134 - Golden Amber
		110–111	135 - Golden Amber
		112–113	136 - Pale Lavender
		114–115	137 - Special Lavender
		116–117	138 - Pale Green
		118–119	140 - Summer Blue
		120–121	142 - Pale Violet
		122–123	143 - Pale Navy Blue
		124–125	144 - No Colour Blue
		126–127	147 - Apricot
		128–129	148 - Bright Rose
		130–131	151 - Gold Tint
		132–133	152 - Pale Gold
		134–135	153 - Pale Salmon
		136–137	154 - Pale Rose
		138–139	156 - Chocolate
		140–141	157 - Pink
		142–143	159 - No Colour Straw
		144–145	161 - Slate Blue
		146–147	162 - Bastard Amber
		148–149	164 - Flame Red
		150–151	165 - Daylight Blue
		152–153	169 - Lilac Tint
		154–155	170 - Deep Lavender
		156–157	174 - Dark Steel Blue
		158–159	176 - Loving Amber
		160–161	180 - Dark Lavender
		162–163	182 - Light Red
		164–165	192 - Flesh Pink
		166–167	194 - Surprise Pink
		168–169	195 - Zenith Blue
		170–171	196 - True Blue
		172–173	197 - Alice Blue
		174–175	198 - Palace Blue
		176–177	199 - Regal Blue
		178–255	RESERVED
			When CH 5 is 10–19:
		0–1	184 - Cosmetic Peach
		2–3	186 - Cosmetic Silver Rose

CH	Function	DMX	Description
6	Gel Swatch (continued)	4–5	187 - Cosmetic Rouge
		6–7	188 - Cosmetic Highlight
		8–9	189 - Cosmetic Silver Moss
		10–11	191 - Cosmetic Aqua Blue
		12–13	705 - Lily Frost
		14–15	717 - Shanklin Frost
		16–17	718 - Hlaf Shanklin Frost
		18–19	720 - Durham Daylight Frost
		20–21	749 - Hampshire Rose
		22–23	750 - Durham Frost
		24–25	774 - Soft Amber Key 1
		26–27	775 - Soft Amber Key 2
		28–29	791 - Moroccan Frost
		30–31	217 - Blue Diffusion
		32–33	221 - Blue Frost
		34–35	224 - Daylight Blue Frost
		36–255	RESERVED
			When CH 5 is 20–29:
		0–1	600 - Arctic White
		2–3	601 - Silver
		4–5	602 - Platinum
		6–7	603 - Moonlight White
		8–9	604 - Full CT 85
		10–11	650 - Industry Sodium
		12–13	651 - Hi Sodium
		14–15	652 - Urban Sodium
		16–17	653 - Lo Sodium
		18–255	RESERVED
			When CH 5 is 30–39:
		0–1	700 - Perfect Lavender
		2–3	701 - Provence
		4–5	702 - Special Pale Lavender
		6–7	703 - Cold Lavender
		8–9	704 - Lily
		10–11	706 - King Fals Lavender
		12–13	708 - Cool Lavender
		14–15	709 - Electric Lilac
		16–17	710 - Spir Special Blue
		18–19	711 - Cold Blue
		20–21	712 - Bedford Blue
		22–23	714 - Elysian Blue

CH	Function	DMX	Description
6	Gel Swatch (continued)	24–25	715 - Cabana Blue
		26–27	716 - Mikkel Blue
		28–29	719 - Colour Wash Blue
		30–31	721 - Berry Blue
		32–33	723 - Virgin Blue
		34–35	724 - Ocean Blue
		36–37	725 - Old Steel Blue
		38–39	728 - Steel Green
		40–41	730 - Liberty Green
		42–43	731 - Dirty Ice
		44–45	733 - Damp Squib
		46–47	738 - JAS Green
		48–49	742 - Bram Brown
		50–51	744 - Dirty White
		52–53	746 - Brown
		54–55	747 - Easy White
		56–57	748 - Seedy Pink
		58–59	763 - Wheat
		60–61	764 - Sun Colour Straw
		62–63	765 - Lee Yellow
		64–65	773 - Cardbox Amber
		66–67	776 - Nectarine
		68–69	778 - Millenium Gold
		70–71	779 - Bastard Pink
		72–73	781 - Terry Red
		74–75	789 - Blood Red
		76–77	790 - Moroccan Pink
		78–79	794 - Pretty n Pink
		80–81	795 - Magical Magenta
		82–255	RESERVED
			When CH 5 is 40–49:
		0–1	200 - Double CTB
		2–3	201 - Full CTB
		4–5	281 - 3/4 CTB
		6–7	202 - 1/2 CTB
		8–9	203 - 1/4 CTB
		10–11	218 - 1/8 CTB
		12–13	287 - Double CTO
		14–15	204 - Full CTO
		16–17	285 - 3/4 CTO
		18–19	205 - 1/2 CTO
		20–21	206 - 1/4 CTO

CH	Function	DMX	Description
6	Gel Swatch (continued)	22–23	223 - 1/8 CTO
		24–25	283 - 1 1/2 CTB
		26–27	286 - 1 1/2 CTO
		28–29	441 - Full CTS
		30–31	442 - 1/2 CTS
		32–33	443 - 1/4 CTS
		34–35	444 - 1/8 CTS
		36–37	207 - Full CTO + 3ND
		38–39	208 - Full CTO + 6ND
		40–41	212 - LCT Yellow Y1
		42–43	213 - White Flame Green
		44–45	219 - Lee Fluro Green
		46–47	230 - Super Correct LCT Yellow
		48–49	232 - Super Correct WF Green
		50–51	236 - HMI to Tungsten
		52–53	237 - CID to Tungsten
		54–55	238 - CSI to Tungsten
		56–57	241 - Lee Fluro 5700k
		58–59	242 - Lee Fluro 4300k
		60–61	243 - Lee Fluro 3600k
		62–63	244 - Lee Plus Green
		64–65	245 - 1/2 Plus Green
		66–67	246 - 1/4 Plus Green
		68–69	278 - 1/8 Plus Green
		70–71	247 - Lee Minus Green
		72–73	248 - 1/2 Minus Green
		74–75	249 - 1/4 Minus Green
		76–77	279 - 1/8 Minus Green
		78–255	RESERVED
			When CH 5 is 50–59:
		0–1	002 - Bastard Amber
		2–3	302 - Pale Bastard Amber
		4–5	006 - No Colour straw
		6–7	008 - Pale Gold
		8–9	310 - Daffodil
		10–11	012 - Straw
		12–13	016 - Light Amber
		14–15	316 - Gallo Gold
		16–17	017 - Light Flame
		18–19	018 - Flame
		20–21	318 - Mayan Sun
		22–23	021 - Golden Amber

CH	Function	DMX	Description
6	Gel Swatch (continued)	24–25	321 - Soft Golden Amber
		26–27	023 - Orange
		28–29	325 - Henna Sky
		30–31	026 - Light Red
		32–33	033 - No Colour Pink
		34–35	333 - Blush Pink
		36–37	034 - Flesh Pink
		38–39	037 - Pale Rose Pink
		40–41	041 - Salmon
		42–43	042 - Deep Salmon
		44–45	044 - Middle Rose
		46–47	047 - Light Rose Purple
		48–49	051 - Surprise Pink
		50–51	060 - No Colour Blue
		52–53	360 - Clearwater
		54–55	062 - Booster Blue
		56–57	362 - Tipton Blue
		58–59	364 - Blue Bell
		60–61	065 - Daylight Blue
		62–63	365 - Tharon Delft Blue
		64–65	375 - Cerulean Blue
		66–67	376 - Bermuda Blue
		68–69	077 - Green Blue
		70–71	378 - Alice Blue
		72–73	080 - Primary Blue
		74–75	381 - Baldassari Blue
		76–77	083 - Medium Blue
		78–79	087 - Pale Yellow Green
		80–81	088 - Light Green
		82–83	089 - Moss Green
		84–85	091 - Primary Green
		86–87	092 - Turquoise
		88–89	093 - Blue Green
		90–91	099 - Chocolate
		92–255	RESERVED
			When CH 5 is 60–69:
		0–1	4215 - 15 Blue
		2–3	4230 - 30 Blue
		4–5	4260 - 60 Blue
		6–7	4290 - 90 Blue
		8–9	4307 - 7 Cyan
		10–11	4315 - 15 Cyan

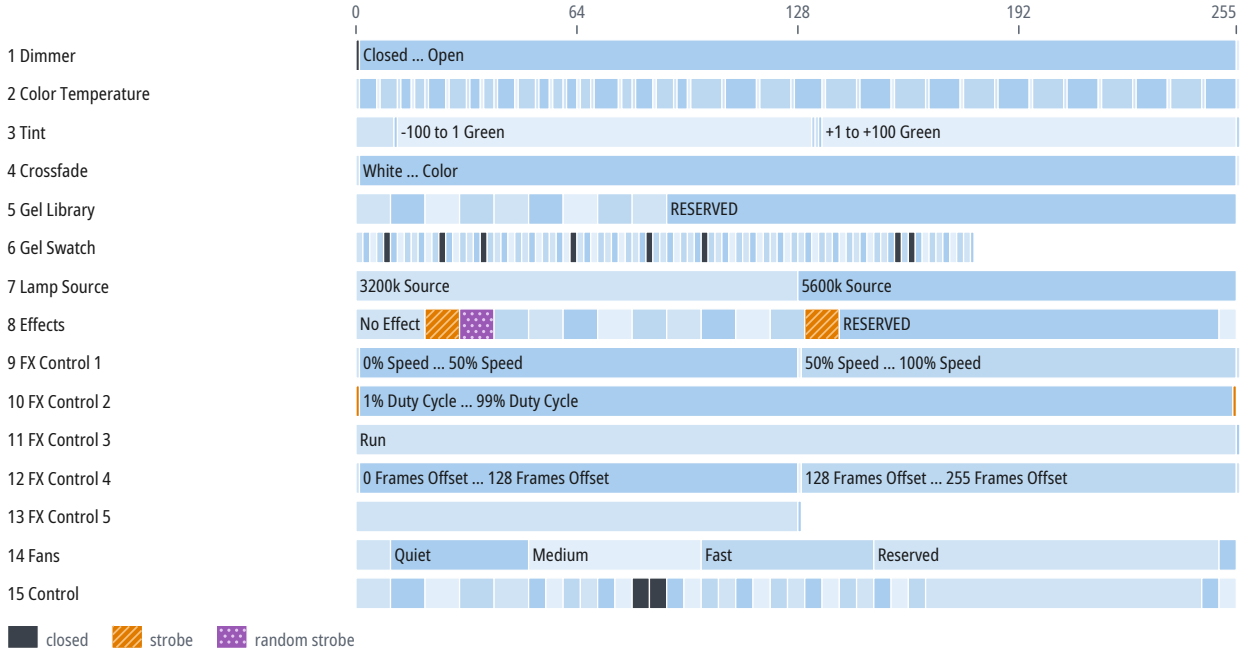
CH	Function	DMX	Description
6	Gel Swatch (continued)	12–13	4330 - 30 Cyan
		14–15	4360 - 60 Cyan
		16–17	4390 - 90 Cyan
		18–19	4415 - 15 Green
		20–21	4430 - 30 Green
		22–23	4460 - 60 Green
		24–25	4490 - 90 Green
		26–27	4515 - 15 Yellow
		28–29	4430 - 30 Yellow
		30–31	4460 - 60 Yellow
		32–33	4590 - 90 Yellow
		34–35	4415 - 15 Green
		36–37	4430 - 30 Green
		38–39	4460 - 60 Green
		40–41	4490 - 90 Green
		42–43	4715 - 15 Magenta
		44–45	4730 - 30 Magenta
		46–47	4760 - 60 Magenta
		48–49	4790 - 90 Magenta
		50–51	4815 - 15 Pink
		52–53	4830 - 30 Pink
		54–55	4860 - 60 Pink
		56–57	4890 - 90 Pink
		58–59	4915 - 15 Lavender
		60–61	4930 - 30 Lavender
		62–63	4960 - 60 Lavender
		64–65	4990 - 90 Lavender
		66–255	RESERVED
			When CH 5 is 70–79:
		0–1	2001 - VS Red
		2–3	2002 - VS Orange
		4–5	2003 - VS Yellow
		6–7	2004 - VS Green
		8–9	2005 - VS Cyan
		10–11	2006 - VS Azure
		12–13	2007 - VS Blue
		14–15	2008 - VS Ingdigo
		16–17	2009 - VS Violet
		18–19	2010 - VS Magenta
		20–255	Empty Channel Set
			When CH 5 is 80–89:
		0–1	3202 - Full CTB

CH	Function	DMX	Description
6	Gel Swatch (continued)	2–3	3203 - 3/4 CTB
		4–5	3204 - 1/2 CTB
		6–7	3206 - 1/3 CTB
		8–9	3208 - 1/4 CTB
		10–11	3216 - 1/8 CTB
		12–13	3220 - Double CTB
		14–15	3407 - Full CTO
		16–17	3411 - 3/4 CTO
		18–19	3408 - 1/2 CTO
		20–21	3409 - 1/4 CTO
		22–23	3410 - 1/8 CTO
		24–25	3420 - Double CTO
		26–27	3441 - Full CTS
		28–29	3442 - 1/2 CTS
		30–31	3443 - 1/4 CTS
		32–33	3444 - 1/8 CTS
		34–35	3304 - Full Plus Green
		36–37	3315 - 1/2 Plus Green
		38–39	3316 - 1/4 Plus Green
		40–41	3317 - 1/8 Plus Green
		42–43	3308 - Full Minus Green
		44–45	3309 - 3/4 Minus Green
		46–47	3313 - 1/2 Minus Green
		48–49	3314 - 1/4 Minus Green
		50–51	3318 - 1/8 Minus Green
		52–53	3310 - Fluro Filter
		54–55	3150 - Imdustrial Vapour
		56–57	3152 - Urban Vapour
		58–59	3107 - Tough Y-1
		60–61	3134 - Tough MT54
		62–63	3106 - Tough MTY
		64–65	3102 - Tough MT2
		66–255	RESERVED
7	Lamp Source		Same as CH 4 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 77)
8	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 23: CCT Gels Effects (15 Ch) 8 Bit

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 2 Color Temperature 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Color Temperature		Same as CH 2 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
3	Tint		Same as CH 3 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
4	Crossfade		Same as CH 4 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
5	Gel Library		Same as CH 2 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 68)
6	Gel Swatch		Same as CH 6 in the mode “Mode 22: CCT Gels (8 Ch) 8 Bit” (p. 77)
7	Lamp Source		Same as CH 4 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 77)
8	Effects		Same as CH 7 in the mode “Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit” (p. 24)
9	FX Control 1		When CH 8 is 20–29:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 8 is 30–39:
		0–1	05 Flashes Per Second

CH	Function	DMX	Description
9	FX Control 1 (continued)	2–253	05 Flashes Per Second ... 5Hz Flashes Per Second
		254–255	5Hz Flashes Per Second
			When CH 8 is 40–49:
		0	0% Off Level
		1–127	0% Off Level ... 50% Off Level
		128	50% Off Level
		129–254	50% Off Level ... 100% Off Level
		255	100% Off Level
			When CH 8 is 50–59:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%
		127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 8 is 60–69:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%
		127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 8 is 70–79:
		0–1	0% Speed
		2–119	0% Speed ... 50% Speed
		120–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 8 is 80–89:
		0–19	Custom
		20–39	Candle Calm
		40–59	Candle Windy
		60–79	Fireplace
		80–99	Campfire
		100–119	Bon Fire
		120–139	Inferno
		140–159	Gas Fire
		160–179	RESERVED
		180–255	Candle and Fire
			When CH 8 is 90–99:
		0–9	Custom
		10–19	Blue Slow
		20–29	Blue Fast
		30–39	Blue Double

CH	Function	DMX	Description
9	FX Control 1 (continued)	40–49	Blue Burst
		50–59	Blue/Red Slow
		60–69	Blue/Red Fast
		70–79	Blue/Red Double
		80–89	Blue/Red Burst
		90–99	Blue/Red Rapid
		100–109	Blue/Red/White Rapid
		110–119	Red Warning
		120–129	Amber Ping
		130–139	Magenta Burst
		140–255	RESERVED
			When CH 8 is 100–109:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 8 is 110–119:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 8 is 120–129:
		0–19	Primary 6
		20–39	Primary 12
		40–59	Primary 24
		60–79	Warm
		80–99	Cool
		100–119	Warm and Cool
		120–139	Pastel
		140–159	Purple Rain
		160–179	Ultra Violet
		180–255	RESERVED
			When CH 8 is 130–139:
		0–1	0% Frequency
		2–127	0% Frequency ... 50% Frequency
		128–130	50% Frequency
		131–249	50% Frequency ... 100% Frequency
		250–255	100% Frequency
			When CH 8 is 250–255:

CH	Function	DMX	Description
9	FX Control 1 (continued)	0	0 Sync Phase
		1–127	0 Sync Phase ... 180 Sync Phase
		128	180 Sync Phase
		129–254	180 Sync Phase ... 360 Sync Phase
		255	360 Sync Phase
10	FX Control 2		When CH 8 is 20–29:
		0	1% Duty Cycle
		1–253	1% Duty Cycle ... 99% Duty Cycle
		254–255	99% Duty Cycle
			When CH 8 is 30–39:
		0–1	1ms Flash Length
		2–63	1ms Flash Length ... 50ms Flash Length
		64	50ms Flash Length
		65–126	50ms Flash Length ... 100ms Flash Length
		127	100ms Flash Length
		128–190	100ms Flash Length ... 150ms Flash Length
		191	150ms Flash Length
		192–254	150ms Flash Length ... 200ms Flash Length
		255	200ms Flash Length
			When CH 8 is 40–49:
		0–1	1 Frame On
		2–127	1 Frame On ... 128 Frames On
		128	128 Frames On
		129–254	128 Frames On ... 255 Frames On
		255	255 Frames On
			When CH 8 is 50–59:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 8 is 60–69:
		0–9	1/5000
		10–19	1/2000
		20–29	1/1000
		30–39	1/800
		40–49	1/500
		50–59	1/320
		60–69	1/250
		70–79	1/125
		80–89	1/60
		90–99	1/30
		100–109	1/15
		110–119	1/10

CH	Function	DMX	Description
10	FX Control 2 (continued)	120–129	1/5
		130–255	RESERVED
			When CH 8 is 70–79:
		0	0deg Red
		1–41	0deg Red ... 60deg Yellow
		42	60deg Yellow
		43–84	60deg Yellow ... 120deg Green
		85	120deg Green
		86–126	120deg Green ... 180deg Cyan
		127	180deg Cyan
		128–169	180deg Cyan ... 240deg Blue
		170	240deg Blue
		171–211	240deg Blue ... 300deg Magenta
		212	300deg Magenta
		213–254	300deg Magenta ... 360deg Red
		255	360deg Red
			When CH 8 is 80–89:
		0–1	0% Intensity
		2–127	0% Intensity ... 50% Intensity
		128–130	50% Intensity
		131–249	50% Intensity ... 100% Intensity
		250–255	100% Intensity
			When CH 8 is 90–99:
		0–14	Blue
		15–29	Blue / Red
		30–44	Blue / White
		45–59	Blue / Amber
		60–74	Blue / White / Red
		75–89	Blue / Amber / Red
		90–104	Red / Amber
		105–119	Red
		120–134	Amber
		135–149	Magenta
		150–164	Green
		165–179	White
		180–244	RESERVED
		245–255	Colour Mode Slots to Set Colour
			When CH 8 is 100–109:
		0–1	0% Intensity
		2–126	0% Intensity ... 50% Intensity
		127–130	50% Intensity

CH	Function	DMX	Description
10	FX Control 2 (continued)	131–249	50% Intensity ... 100% Intensity
		250–255	100% Intensity
			When CH 8 is 110–119:
		0–1	0% Decay Speed
		2–126	0% Decay Speed ... 50% Decay Speed
		127–130	50% Decay Speed
		131–249	50% Decay Speed ... 100% Decay Speed
		250–255	100% Decay Speed
			When CH 8 is 120–129:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 8 is 130–139:
		0–1	0% Pulse Speed
		2–126	0% Pulse Speed ... 50% Pulse Speed
		127–130	50% Pulse Speed
		131–249	50% Pulse Speed ... 100% Pulse Speed
		250–255	100% Pulse Speed
11	FX Control 3		When CH 8 is 20–29:
		0–254	Run
		255	Restart Effect
			When CH 8 is 30–39:
		0–1	0% Variation
		2–63	0% Variation ... 25% Varitation
		64	25% Varitation
		65–126	25% Varitation ... 50% Variation
		127	50% Variation
		128–190	50% Variation ... 75% Variation
		191	75% Variation
		192–254	75% Variation ... 100% Variation
		255	100% Variation
			When CH 8 is 40–49:
		0–1	1 Frame Off
		2–126	1 Frame Off ... 127 Frames Off
		127	127 Frames Off
		128–254	127 Frames Off ... 255 Frames Off
		255	255 Frames Off
			When CH 8 is 50–59:
		0–127	Normal Level

CH	Function	DMX	Description
11	FX Control 3 (continued)	128–255	Flash Level
			When CH 8 is 60–69:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 8 is 70–79:
		0–254	Run
		255	Effect Restart
			When CH 8 is 80–89:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 8 is 90–99:
		0–9	1 Flash
		10–19	2 Flash
		20–29	3 Flash
		30–39	4 Flash
		40–49	5 Flash
		50–59	6 Flash
		60–69	7 Flash
		70–79	8 Flash
		80–89	9 Flash
		90–99	10 Flash
		100–109	11 Flash
		110–119	12 Flash
		120–129	13 Flash
		130–139	14 Flash
		140–149	15 Flash
		150–159	16 Flash
		160–169	17 Flash
		170–179	18 Flash
		180–189	19 Flash
		190–199	20 Flash
		200–255	RESERVED
			When CH 8 is 100–109:
		0–1	2200k
		2–126	2200k ... 3900k
		127	3900k
		128–254	3900k ... 10000k
		255	10000k

CH	Function	DMX	Description
11	FX Control 3 (continued)		When CH 8 is 110–119:
		0–1	1700k
		2–243	1700k ... 15000k
		244	15000k
		245–255	Use Colour Mode Slots For Colour
			When CH 8 is 120–129:
		0–39	Immediate Transistion
		40–79	Fade Transition
		80–119	Fade - Random Transition Speed
		120–255	RESERVED
12	FX Control 4		When CH 8 is 40–49:
		0	0 Frames Offset
		1–127	0 Frames Offset ... 128 Frames Offset
		128	128 Frames Offset
		129–254	128 Frames Offset ... 255 Frames Offset
		255	255 Frames Offset
			When CH 8 is 60–69:
		0–127	Trigger Off
		128–255	Trigger On
			When CH 8 is 80–89:
		0–1	1400k
		2–121	1400k ... 2100k
		122	2100k
		123–243	2100k ... 5600k
		244	5600k
		245–255	Colour Mode Slots for Colour
			When CH 8 is 90–99:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 8 is 120–129:
		0–1	0% Transition Speed
		2–126	0% Transition Speed ... 50% Transition Speed
		127–128	50% Transition Speed
		129–253	50% Transition Speed ... 100% Transition Speed
		254–255	100% Transition Speed
13	FX Control 5		When CH 8 is 40–49:
		0–127	Effect Enable
		128–255	Effect Disable

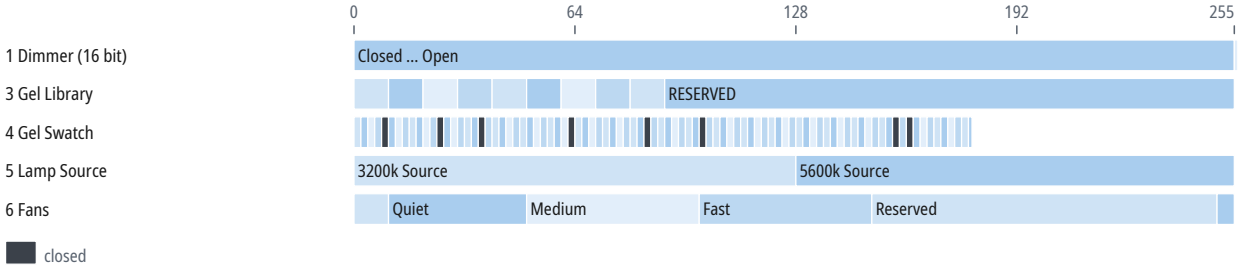
CH	Function	DMX	Description
13	FX Control 5 (continued)		When CH 8 is 90–99:
		0–1	0 Seconds Pause
		2–126	0 Seconds Pause ... 1 Second Pause
		127–128	1 Second Pause
		129–253	1 Second Pause ... 2 Seconds Pause
		254–255	2 Seconds Pause
14	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
15	Control	0–9	No Changes
		10–19	DMX Mode Smooth OFF
		20–29	DMX Mode Smooth
		30–39	DMX Mode Super Smooth
		40–49	No Changes
		50–54	Dim Curve Linear
		55–59	Dim Curve Exponential
		60–64	Dim Curve Logarithmic
		65–69	Dim Curve S Curve
		70–74	High Speed Mode OFF
		75–79	High Speed Mode ON
		80–84	Blackout Startup OFF
		85–89	Blackout Startup ON
		90–94	Calibrated RGBW OFF
		95–99	Calibrated RGBW ON
		100–104	CRMX UnLink
		105–109	CRMX Disabled
		110–114	CRMX Enabled
		115–119	CRMX BLE Disabled
		120–124	CRMX BLE Enabled
		125–129	DMX Forward OFF
		130–134	DMX Forward ON
		135–139	Master Mode OFF
		140–144	Master Mode ON
		145–149	Refresh Frame Sync
		150–154	Display On=Off
		155–159	Display On=On
		160–164	CRMX Transmitter Link
		165–244	CRMX Transmitter Link ... Green Indicator OFF
		245–249	Green Indicator OFF
		250–255	Green Indicator On

Mode 24: Gels (6ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Gel Library		Same as CH 2 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 68)
4	Gel Swatch		When CH 3 is 0–9:
		0–1	001 -Rose Pink
		2–3	002 - Lavender Tint
		4–5	004 - Medium Bastard Amber
		6–7	007 - Pale Yellow
		8–9	008 - Dark Salmon
		10–11	009 - Pale Amber Gold
		12–13	010 - Medium Yellow
		14–15	013 - Straw Tint
		16–17	017 - Surprise Peach
		18–19	019 - Fire
		20–21	020 - Medium Amber
		22–23	021 - Gold Amber
		24–25	022 - Dark Amber
		26–27	024 - Scarlet
		28–29	025 - Sunset Red
		30–31	026 - Bright Red
		32–33	035 - Light Pink
		34–35	036 - Medium Pink
		36–37	046 - Dark Magenta
		38–39	048 - Rose Purple
		40–41	052 - Light Lavender
		42–43	053 - Paler Lavender
		44–45	058 - Lavender
		46–47	061 - Mist Blue

CH	Function	DMX	Description
4	Gel Swatch (continued)	48–49	063 - Pale Blue
		50–51	068 - Sky Blue
		52–53	075 - Evening Bllue
		54–55	079 - Just Blue
		56–57	085 - Deeper Blue
		58–59	088 - Lime Green
		60–61	089 - Moss Green
		62–63	092 - Dark Yellow Green
		64–65	100 - Spring Yellow
		66–67	101 - Yellow
		68–69	102 - Light Amber
		70–71	103 - Straw
		72–73	104 - Deep Amber
		74–75	106 - Primary Red
		76–77	107 - Light Rose
		78–79	108 - English Rose
		80–81	109 - Light Salmon
		82–83	110 - Middle Rose
		84–85	111 - Dark Pink
		86–87	113 - Magenta
		88–89	115 - Peacock Blue
		90–91	117 - Steel Blue
		92–93	118 - Light Blue
		94–95	120 - Deep Blue
		96–97	121 - Lee Green
		98–99	122 - Fern Green
		100–101	124 - Dark Green
		102–103	127 - Smokey Pink
		104–105	128 - Bright Pink
		106–107	131 - Marine Blue
		108–109	134 - Golden Amber
		110–111	135 - Golden Amber
		112–113	136 - Pale Lavender
		114–115	137 - Special Lavender
		116–117	138 - Pale Green
		118–119	140 - Summer Blue
		120–121	142 - Pale Violet
		122–123	143 - Pale Navy Blue
		124–125	144 - No Colour Blue
		126–127	147 - Apricot
		128–129	148 - Bright Rose
		130–131	151 - Gold Tint

CH	Function	DMX	Description
4	Gel Swatch (continued)	132–133	152 - Pale Gold
		134–135	153 - Pale Salmon
		136–137	154 - Pale Rose
		138–139	156 - Chocolate
		140–141	157 - Pink
		142–143	159 - No Colour Straw
		144–145	161 - Slate Blue
		146–147	162 - Bastard Amber
		148–149	164 - Flame Red
		150–151	165 - Daylight Blue
		152–153	169 - Lilac Tint
		154–155	170 - Deep Lavender
		156–157	174 - Dark Steel Blue
		158–159	176 - Loving Amber
		160–161	180 - Dark Lavender
		162–163	182 - Light Red
		164–165	192 - Flesh Pink
		166–167	194 - Surprise Pink
		168–169	195 - Zenith Blue
		170–171	196 - True Blue
		172–173	197 - Alice Blue
		174–175	198 - Palace Blue
		176–177	199 - Regal Blue
		178–255	RESERVED
			When CH 3 is 10–19:
		0–1	184 - Cosmetic Peach
		2–3	186 - Cosmetic Silver Rose
		4–5	187 - Cosmetic Rouge
		6–7	188 - Cosmetic Highlight
		8–9	189 - Cosmetic Silver Moss
		10–11	191 - Cosmetic Aqua Blue
		12–13	705 - Lily Frost
		14–15	717 - Shanklin Frost
		16–17	718 - Hlaf Shanklin Frost
		18–19	720 - Durham Daylight Frost
		20–21	749 - Hampshire Rose
		22–23	750 - Durham Frost
		24–25	774 - Soft Amber Key 1
		26–27	775 - Soft Amber Key 2
		28–29	791 - Moroccan Frost
		30–31	217 - Blue Diffusion
		32–33	221 - Blue Frost

CH	Function	DMX	Description
4	Gel Swatch (continued)	34–35	224 - Daylight Blue Frost
		36–255	RESERVED
			When CH 3 is 20–29:
		0–1	600 - Arctic White
		2–3	601 - Silver
		4–5	602 - Platinum
		6–7	603 - Moonlight White
		8–9	604 - Full CT 85
		10–11	650 - Industry Sodium
		12–13	651 - Hi Sodium
		14–15	652 - Urban Sodium
		16–17	653 - Lo Sodium
		18–255	RESERVED
			When CH 3 is 30–39:
		0–1	700 - Perfect Lavender
		2–3	701 - Provence
		4–5	702 - Special Pale Lavender
		6–7	703 - Cold Lavender
		8–9	704 - Lily
		10–11	706 - King Fals Lavender
		12–13	708 - Cool Lavender
		14–15	709 - Electric Lilac
		16–17	710 - Spir Special Blue
		18–19	711 - Cold Blue
		20–21	712 - Bedford Blue
		22–23	714 - Elysian Blue
		24–25	715 - Cabana Blue
		26–27	716 - Mikkel Blue
		28–29	719 - Colour Wash Blue
		30–31	721 - Berry Blue
		32–33	723 - Virgin Blue
		34–35	724 - Ocean Blue
		36–37	725 - Old Steel Blue
		38–39	728 - Steel Green
		40–41	730 - Liberty Green
		42–43	731 - Dirty Ice
		44–45	733 - Damp Squib
		46–47	738 - JAS Green
		48–49	742 - Bram Brown
		50–51	744 - Dirty White
		52–53	746 - Brown
		54–55	747 - Easy White

CH	Function	DMX	Description
4	Gel Swatch (continued)	56–57	748 - Seedy Pink
		58–59	763 - Wheat
		60–61	764 - Sun Colour Straw
		62–63	765 - Lee Yellow
		64–65	773 - Cardbox Amber
		66–67	776 - Nectarine
		68–69	778 - Millenium Gold
		70–71	779 - Bastard Pink
		72–73	781 - Terry Red
		74–75	789 - Blood Red
		76–77	790 - Moroccan Pink
		78–79	794 - Pretty n Pink
		80–81	795 - Magical Magenta
		82–255	RESERVED
			When CH 3 is 40–49:
		0–1	200 - Double CTB
		2–3	201 - Full CTB
		4–5	281 - 3/4 CTB
		6–7	202 - 1/2 CTB
		8–9	203 - 1/4 CTB
		10–11	218 - 1/8 CTB
		12–13	287 - Double CTO
		14–15	204 - Full CTO
		16–17	285 - 3/4 CTO
		18–19	205 - 1/2 CTO
		20–21	206 - 1/4 CTO
		22–23	223 - 1/8 CTO
		24–25	283 - 1 1/2 CTB
		26–27	286 - 1 1/2 CTO
		28–29	441 - Full CTS
		30–31	442 - 1/2 CTS
		32–33	443 - 1/4 CTS
		34–35	444 - 1/8 CTS
		36–37	207 - Full CTO + 3ND
		38–39	208 - Full CTO + 6ND
		40–41	212 - LCT Yellow Y1
		42–43	213 - White Flame Green
		44–45	219 - Lee Fluro Green
		46–47	230 - Super Correct LCT Yellow
		48–49	232 - Super Correct WF Green
		50–51	236 - HMI to Tungsten
		52–53	237 - CID to Tungsten

CH	Function	DMX	Description
4	Gel Swatch (continued)	54–55	238 - CSI to Tungsten
		56–57	241 - Lee Fluro 5700k
		58–59	242 - Lee Fluro 4300k
		60–61	243 - Lee Fluro 3600k
		62–63	244 - Lee Plus Green
		64–65	245 - 1/2 Plus Green
		66–67	246 - 1/4 Plus Green
		68–69	278 - 1/8 Plus Green
		70–71	247 - Lee Minus Green
		72–73	248 - 1/2 Minus Green
		74–75	249 - 1/4 Minus Green
		76–77	279 - 1/8 Minus Green
		78–255	RESERVED
			When CH 3 is 50–59:
		0–1	002 - Bastard Amber
		2–3	302 - Pale Bastard Amber
		4–5	006 - No Colour straw
		6–7	008 - Pale Gold
		8–9	310 - Daffodil
		10–11	012 - Straw
		12–13	016 - Light Amber
		14–15	316 - Gallo Gold
		16–17	017 - Light Flame
		18–19	018 - Flame
		20–21	318 - Mayan Sun
		22–23	021 - Golden Amber
		24–25	321 - Soft Golden Amber
		26–27	023 - Orange
		28–29	325 - Henna Sky
		30–31	026 - Light Red
		32–33	033 - No Colour Pink
		34–35	333 - Blush Pink
		36–37	034 - Flesh Pink
		38–39	037 - Pale Rose Pink
		40–41	041 - Salmon
		42–43	042 - Deep Salmon
		44–45	044 - Middle Rose
		46–47	047 - Light Rose Purple
		48–49	051 - Surprise Pink
		50–51	060 - No Colour Blue
		52–53	360 - Clearwater
		54–55	062 - Booster Blue

CH	Function	DMX	Description
4	Gel Swatch (continued)	56–57	362 - Tipton Blue
		58–59	364 - Blue Bell
		60–61	065 - Daylight Blue
		62–63	365 - Tharon Delft Blue
		64–65	375 - Cerulean Blue
		66–67	376 - Bermuda Blue
		68–69	077 - Green Blue
		70–71	378 - Alice Blue
		72–73	080 - Primary Blue
		74–75	381 - Baldassari Blue
		76–77	083 - Medium Blue
		78–79	087 - Pale Yellow Green
		80–81	088 - Light Green
		82–83	089 - Moss Green
		84–85	091 - Primary Green
		86–87	092 - Turquoise
		88–89	093 - Blue Green
		90–91	099 - Chocolate
		92–255	RESERVED
			When CH 3 is 60–69:
		0–1	4215 - 15 Blue
		2–3	4230 - 30 Blue
		4–5	4260 - 60 Blue
		6–7	4290 - 90 Blue
		8–9	4307 - 7 Cyan
		10–11	4315 - 15 Cyan
		12–13	4330 - 30 Cyan
		14–15	4360 - 60 Cyan
		16–17	4390 - 90 Cyan
		18–19	4415 - 15 Green
		20–21	4430 - 30 Green
		22–23	4460 - 60 Green
		24–25	4490 - 90 Green
		26–27	4515 - 15 Yellow
		28–29	4430 - 30 Yellow
		30–31	4460 - 60 Yellow
		32–33	4590 - 90 Yellow
		34–35	4415 - 15 Green
		36–37	4430 - 30 Green
		38–39	4460 - 60 Green
		40–41	4490 - 90 Green
		42–43	4715 - 15 Magenta

CH	Function	DMX	Description
4	Gel Swatch (continued)	44–45	4730 - 30 Magenta
		46–47	4760 - 60 Magenta
		48–49	4790 - 90 Magenta
		50–51	4815 - 15 Pink
		52–53	4830 - 30 Pink
		54–55	4860 - 60 Pink
		56–57	4890 - 90 Pink
		58–59	4915 - 15 Lavender
		60–61	4930 - 30 Lavender
		62–63	4960 - 60 Lavender
		64–65	4990 - 90 Lavender
		66–255	RESERVED
			When CH 3 is 70–79:
		0–1	2001 - VS Red
		2–3	2002 - VS Orange
		4–5	2003 - VS Yellow
		6–7	2004 - VS Green
		8–9	2005 - VS Cyan
		10–11	2006 - VS Azure
		12–13	2007 - VS Blue
		14–15	2008 - VS Ingdigo
		16–17	2009 - VS Violet
		18–19	2010 - VS Magenta
		20–255	Empty Channel Set
			When CH 3 is 80–89:
		0–1	3202 - Full CTB
		2–3	3203 - 3/4 CTB
		4–5	3204 - 1/2 CTB
		6–7	3206 - 1/3 CTB
		8–9	3208 - 1/4 CTB
		10–11	3216 - 1/8 CTB
		12–13	3220 - Double CTB
		14–15	3407 - Full CTO
		16–17	3411 - 3/4 CTO
		18–19	3408 - 1/2 CTO
		20–21	3409 - 1/4 CTO
		22–23	3410 - 1/8 CTO
		24–25	3420 - Double CTO
		26–27	3441 - Full CTS
		28–29	3442 - 1/2 CTS
		30–31	3443 - 1/4 CTS
		32–33	3444 - 1/8 CTS

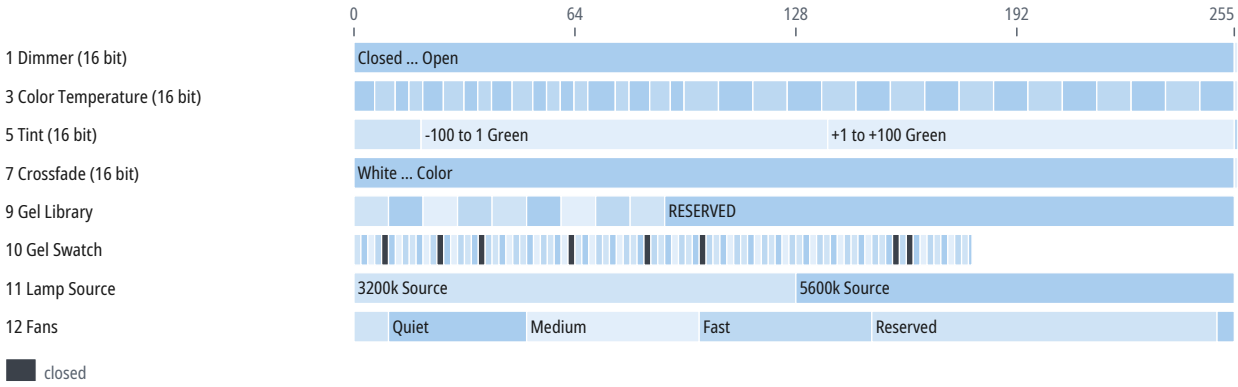
CH	Function	DMX	Description
4	Gel Swatch (continued)	34–35	3304 - Full Plus Green
		36–37	3315 - 1/2 Plus Green
		38–39	3316 - 1/4 Plus Green
		40–41	3317 - 1/8 Plus Green
		42–43	3308 - Full Minus Green
		44–45	3309 - 3/4 Minus Green
		46–47	3313 - 1/2 Minus Green
		48–49	3314 - 1/4 Minus Green
		50–51	3318 - 1/8 Minus Green
		52–53	3310 - Fluro Filter
		54–55	3150 - Imdustrial Vapour
		56–57	3152 - Urban Vapour
		58–59	3107 - Tough Y-1
		60–61	3134 - Tough MT54
		62–63	3106 - Tough MTY
		64–65	3102 - Tough MT2
		66–255	RESERVED
5	Lamp Source		Same as CH 4 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 77)
6	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 25: CCT Gels (12 Ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Color Temperature 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)

CH	Function	DMX	Description
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 5 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Crossfade		Same as CH 7 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
8	Crossfade Fine	0–255	Fine adjustment of CH 7
9	Gel Library		Same as CH 2 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 68)
10	Gel Swatch		When CH 9 is 0–9:
		0–1	001 -Rose Pink
		2–3	002 - Lavender Tint
		4–5	004 - Medium Bastard Amber
		6–7	007 - Pale Yellow
		8–9	008 - Dark Salmon
		10–11	009 - Pale Amber Gold
		12–13	010 - Medium Yellow
		14–15	013 - Straw Tint
		16–17	017 - Surprise Peach
		18–19	019 - Fire
		20–21	020 - Medium Amber
		22–23	021 - Gold Amber
		24–25	022 - Dark Amber
		26–27	024 - Scarlet
		28–29	025 - Sunset Red
		30–31	026 - Bright Red
		32–33	035 - Light Pink
		34–35	036 - Medium Pink
		36–37	046 - Dark Magenta
		38–39	048 - Rose Purple
		40–41	052 - Light Lavender
		42–43	053 - Paler Lavender
		44–45	058 - Lavender
		46–47	061 - Mist Blue
		48–49	063 - Pale Blue
		50–51	068 - Sky Blue
		52–53	075 - Evening Bllue
		54–55	079 - Just Blue
		56–57	085 - Deeper Blue
		58–59	088 - Lime Green
		60–61	089 - Moss Green
		62–63	092 - Dark Yellow Green
		64–65	100 - Spring Yellow
		66–67	101 - Yellow

CH	Function	DMX	Description
10	Gel Swatch (continued)	68–69	102 - Light Amber
		70–71	103 - Straw
		72–73	104 - Deep Amber
		74–75	106 - Primary Red
		76–77	107 - Light Rose
		78–79	108 - English Rose
		80–81	109 - Light Salmon
		82–83	110 - Middle Rose
		84–85	111 - Dark Pink
		86–87	113 - Magenta
		88–89	115 - Peacock Blue
		90–91	117 - Steel Blue
		92–93	118 - Light Blue
		94–95	120 - Deep Blue
		96–97	121 - Lee Green
		98–99	122 - Fern Green
		100–101	124 - Dark Green
		102–103	127 - Smokey Pink
		104–105	128 - Bright Pink
		106–107	131 - Marine Blue
		108–109	134 - Golden Amber
		110–111	135 - Golden Amber
		112–113	136 - Pale Lavender
		114–115	137 - Special Lavender
		116–117	138 - Pale Green
		118–119	140 - Summer Blue
		120–121	142 - Pale Violet
		122–123	143 - Pale Navy Blue
		124–125	144 - No Colour Blue
		126–127	147 - Apricot
		128–129	148 - Bright Rose
		130–131	151 - Gold Tint
		132–133	152 - Pale Gold
		134–135	153 - Pale Salmon
		136–137	154 - Pale Rose
		138–139	156 - Chocolate
		140–141	157 - Pink
		142–143	159 - No Colour Straw
		144–145	161 - Slate Blue
		146–147	162 - Bastard Amber
		148–149	164 - Flame Red
		150–151	165 - Daylight Blue

CH	Function	DMX	Description
10	Gel Swatch (continued)	152–153	169 - Lilac Tint
		154–155	170 - Deep Lavender
		156–157	174 - Dark Steel Blue
		158–159	176 - Loving Amber
		160–161	180 - Dark Lavender
		162–163	182 - Light Red
		164–165	192 - Flesh Pink
		166–167	194 - Surprise Pink
		168–169	195 - Zenith Blue
		170–171	196 - True Blue
		172–173	197 - Alice Blue
		174–175	198 - Palace Blue
		176–177	199 - Regal Blue
		178–255	RESERVED
			When CH 9 is 10–19:
		0–1	184 - Cosmetic Peach
		2–3	186 - Cosmetic Silver Rose
		4–5	187 - Cosmetic Rouge
		6–7	188 - Cosmetic Highlight
		8–9	189 - Cosmetic Silver Moss
		10–11	191 - Cosmetic Aqua Blue
		12–13	705 - Lily Frost
		14–15	717 - Shanklin Frost
		16–17	718 - Hlaf Shanklin Frost
		18–19	720 - Durham Daylight Frost
		20–21	749 - Hampshire Rose
		22–23	750 - Durham Frost
		24–25	774 - Soft Amber Key 1
		26–27	775 - Soft Amber Key 2
		28–29	791 - Moroccan Frost
		30–31	217 - Blue Diffusion
		32–33	221 - Blue Frost
		34–35	224 - Daylight Blue Frost
		36–255	RESERVED
			When CH 9 is 20–29:
		0–1	600 - Arctic White
		2–3	601 - Silver
		4–5	602 - Platinum
		6–7	603 - Moonlight White
		8–9	604 - Full CT 85
		10–11	650 - Industry Sodium
		12–13	651 - Hi Sodium

CH	Function	DMX	Description
10	Gel Swatch (continued)	14–15	652 - Urban Sodium
		16–17	653 - Lo Sodium
		18–255	RESERVED
			When CH 9 is 30–39:
		0–1	700 - Perfect Lavender
		2–3	701 - Provence
		4–5	702 - Special Pale Lavender
		6–7	703 - Cold Lavender
		8–9	704 - Lily
		10–11	706 - King Fals Lavender
		12–13	708 - Cool Lavender
		14–15	709 - Electric Lilac
		16–17	710 - Spir Special Blue
		18–19	711 - Cold Blue
		20–21	712 - Bedford Blue
		22–23	714 - Elysian Blue
		24–25	715 - Cabana Blue
		26–27	716 - Mikkel Blue
		28–29	719 - Colour Wash Blue
		30–31	721 - Berry Blue
		32–33	723 - Virgin Blue
		34–35	724 - Ocean Blue
		36–37	725 - Old Steel Blue
		38–39	728 - Steel Green
		40–41	730 - Liberty Green
		42–43	731 - Dirty Ice
		44–45	733 - Damp Squib
		46–47	738 - JAS Green
		48–49	742 - Bram Brown
		50–51	744 - Dirty White
		52–53	746 - Brown
		54–55	747 - Easy White
		56–57	748 - Seedy Pink
		58–59	763 - Wheat
		60–61	764 - Sun Colour Straw
		62–63	765 - Lee Yellow
		64–65	773 - Cardbox Amber
		66–67	776 - Nectarine
		68–69	778 - Millenium Gold
		70–71	779 - Bastard Pink
		72–73	781 - Terry Red
		74–75	789 - Blood Red

CH	Function	DMX	Description
10	Gel Swatch (continued)	76–77	790 - Moroccan Pink
		78–79	794 - Pretty n Pink
		80–81	795 - Magical Magenta
		82–255	RESERVED
			When CH 9 is 40–49:
		0–1	200 - Double CTB
		2–3	201 - Full CTB
		4–5	281 - 3/4 CTB
		6–7	202 - 1/2 CTB
		8–9	203 - 1/4 CTB
		10–11	218 - 1/8 CTB
		12–13	287 - Double CTO
		14–15	204 - Full CTO
		16–17	285 - 3/4 CTO
		18–19	205 - 1/2 CTO
		20–21	206 - 1/4 CTO
		22–23	223 - 1/8 CTO
		24–25	283 - 1 1/2 CTB
		26–27	286 - 1 1/2 CTO
		28–29	441 - Full CTS
		30–31	442 - 1/2 CTS
		32–33	443 - 1/4 CTS
		34–35	444 - 1/8 CTS
		36–37	207 - Full CTO + 3ND
		38–39	208 - Full CTO + 6ND
		40–41	212 - LCT Yellow Y1
		42–43	213 - White Flame Green
		44–45	219 - Lee Fluro Green
		46–47	230 - Super Correct LCT Yellow
		48–49	232 - Super Correct WF Green
		50–51	236 - HMI to Tungsten
		52–53	237 - CID to Tungsten
		54–55	238 - CSI to Tungsten
		56–57	241 - Lee Fluro 5700k
		58–59	242 - Lee Fluro 4300k
		60–61	243 - Lee Fluro 3600k
		62–63	244 - Lee Plus Green
		64–65	245 - 1/2 Plus Green
		66–67	246 - 1/4 Plus Green
		68–69	278 - 1/8 Plus Green
		70–71	247 - Lee Minus Green

CH	Function	DMX	Description
10	Gel Swatch (continued)	72–73	248 - 1/2 Minus Green
		74–75	249 - 1/4 Minus Green
		76–77	279 - 1/8 Minus Green
		78–255	RESERVED
			When CH 9 is 50–59:
		0–1	002 - Bastard Amber
		2–3	302 - Pale Bastard Amber
		4–5	006 - No Colour straw
		6–7	008 - Pale Gold
		8–9	310 - Daffodil
		10–11	012 - Straw
		12–13	016 - Light Amber
		14–15	316 - Gallo Gold
		16–17	017 - Light Flame
		18–19	018 - Flame
		20–21	318 - Mayan Sun
		22–23	021 - Golden Amber
		24–25	321 - Soft Golden Amber
		26–27	023 - Orange
		28–29	325 - Henna Sky
		30–31	026 - Light Red
		32–33	033 - No Colour Pink
		34–35	333 - Blush Pink
		36–37	034 - Flesh Pink
		38–39	037 - Pale Rose Pink
		40–41	041 - Salmon
		42–43	042 - Deep Salmon
		44–45	044 - Middle Rose
		46–47	047 - Light Rose Purple
		48–49	051 - Surprise Pink
		50–51	060 - No Colour Blue
		52–53	360 - Clearwater
		54–55	062 - Booster Blue
		56–57	362 - Tipton Blue
		58–59	364 - Blue Bell
		60–61	065 - Daylight Blue
		62–63	365 - Tharon Delft Blue
		64–65	375 - Cerulean Blue
		66–67	376 - Bermuda Blue
		68–69	077 - Green Blue
		70–71	378 - Alice Blue

CH	Function	DMX	Description
10	Gel Swatch (continued)	72–73	080 - Primary Blue
		74–75	381 - Baldassari Blue
		76–77	083 - Medium Blue
		78–79	087 - Pale Yellow Green
		80–81	088 - Light Green
		82–83	089 - Moss Green
		84–85	091 - Primary Green
		86–87	092 - Turquoise
		88–89	093 - Blue Green
		90–91	099 - Chocolate
		92–255	RESERVED
			When CH 9 is 60–69:
		0–1	4215 - 15 Blue
		2–3	4230 - 30 Blue
		4–5	4260 - 60 Blue
		6–7	4290 - 90 Blue
		8–9	4307 - 7 Cyan
		10–11	4315 - 15 Cyan
		12–13	4330 - 30 Cyan
		14–15	4360 - 60 Cyan
		16–17	4390 - 90 Cyan
		18–19	4415 - 15 Green
		20–21	4430 - 30 Green
		22–23	4460 - 60 Green
		24–25	4490 - 90 Green
		26–27	4515 - 15 Yellow
		28–29	4430 - 30 Yellow
		30–31	4460 - 60 Yellow
		32–33	4590 - 90 Yellow
		34–35	4415 - 15 Green
		36–37	4430 - 30 Green
		38–39	4460 - 60 Green
		40–41	4490 - 90 Green
		42–43	4715 - 15 Magenta
		44–45	4730 - 30 Magenta
		46–47	4760 - 60 Magenta
		48–49	4790 - 90 Magenta
		50–51	4815 - 15 Pink
		52–53	4830 - 30 Pink
		54–55	4860 - 60 Pink
		56–57	4890 - 90 Pink
		58–59	4915 - 15 Lavender

CH	Function	DMX	Description
10	Gel Swatch (continued)	60–61	4930 - 30 Lavender
		62–63	4960 - 60 Lavender
		64–65	4990 - 90 Lavender
		66–255	RESERVED
			When CH 9 is 70–79:
		0–1	2001 - VS Red
		2–3	2002 - VS Orange
		4–5	2003 - VS Yellow
		6–7	2004 - VS Green
		8–9	2005 - VS Cyan
		10–11	2006 - VS Azure
		12–13	2007 - VS Blue
		14–15	2008 - VS Ingdigo
		16–17	2009 - VS Violet
		18–19	2010 - VS Magenta
		20–255	Empty Channel Set
			When CH 9 is 80–89:
		0–1	3202 - Full CTB
		2–3	3203 - 3/4 CTB
		4–5	3204 - 1/2 CTB
		6–7	3206 - 1/3 CTB
		8–9	3208 - 1/4 CTB
		10–11	3216 - 1/8 CTB
		12–13	3220 - Double CTB
		14–15	3407 - Full CTO
		16–17	3411 - 3/4 CTO
		18–19	3408 - 1/2 CTO
		20–21	3409 - 1/4 CTO
		22–23	3410 - 1/8 CTO
		24–25	3420 - Double CTO
		26–27	3441 - Full CTS
		28–29	3442 - 1/2 CTS
		30–31	3443 - 1/4 CTS
		32–33	3444 - 1/8 CTS
		34–35	3304 - Full Plus Green
		36–37	3315 - 1/2 Plus Green
		38–39	3316 - 1/4 Plus Green
		40–41	3317 - 1/8 Plus Green
		42–43	3308 - Full Minus Green
		44–45	3309 - 3/4 Minus Green
		46–47	3313 - 1/2 Minus Green
		48–49	3314 - 1/4 Minus Green

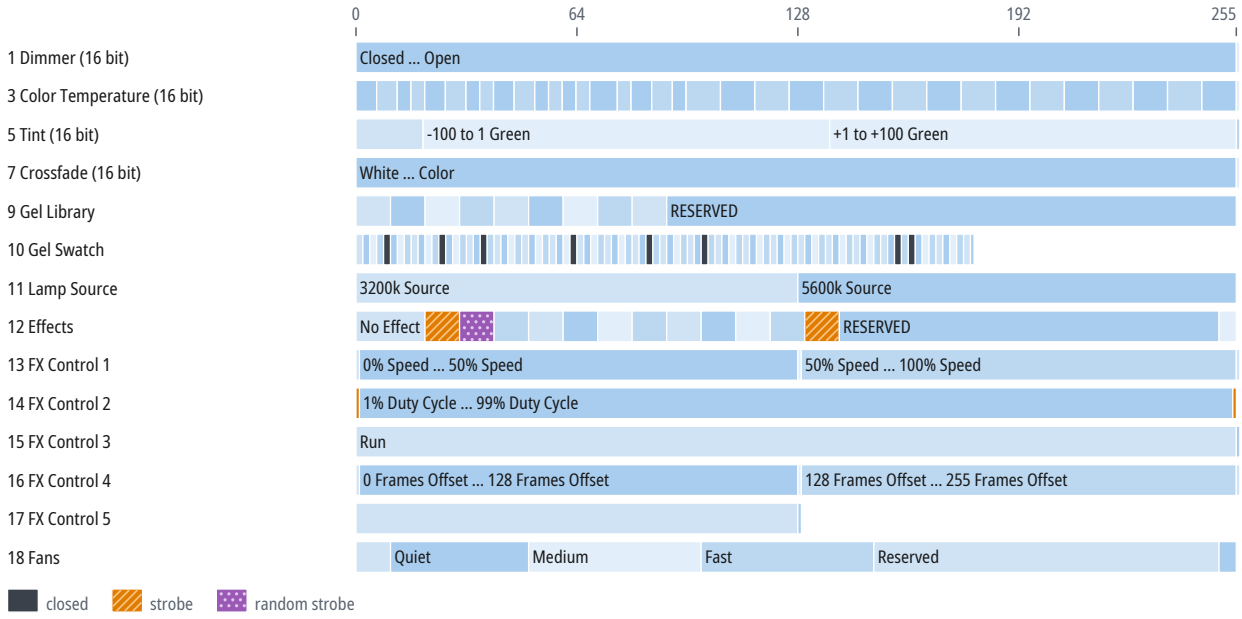
CH	Function	DMX	Description
10	Gel Swatch (continued)	50–51	3318 - 1/8 Minus Green
		52–53	3310 - Fluro Filter
		54–55	3150 - Imdustrial Vapour
		56–57	3152 - Urban Vapour
		58–59	3107 - Tough Y-1
		60–61	3134 - Tough MT54
		62–63	3106 - Tough MTY
		64–65	3102 - Tough MT2
		66–255	RESERVED
11	Lamp Source		Same as CH 4 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 77)
12	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 26: CCT Gels Effects (18 Ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Color Temperature 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 5 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Crossfade		Same as CH 7 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
8	Crossfade Fine	0–255	Fine adjustment of CH 7
9	Gel Library		Same as CH 2 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 68)
10	Gel Swatch		Same as CH 10 in the mode “Mode 25: CCT Gels (12 Ch) 16 Bit” (p. 104)
11	Lamp Source		Same as CH 4 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 77)
12	Effects		Same as CH 7 in the mode “Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit” (p. 24)
13	FX Control 1		When CH 12 is 20–29:
		0	0% Speed
		1–127	0% Speed ... 50% Speed
		128	50% Speed
		129–254	50% Speed ... 100% Speed
		255	100% Speed
			When CH 12 is 30–39:
		0–1	05 Flashes Per Second
		2–253	05 Flashes Per Second ... 5Hz Flashes Per Second
		254–255	5Hz Flashes Per Second
			When CH 12 is 40–49:
		0	0% Off Level
		1–127	0% Off Level ... 50% Off Level
		128	50% Off Level
		129–254	50% Off Level ... 100% Off Level
		255	100% Off Level
			When CH 12 is 50–59:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%
		127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 12 is 60–69:
		0–1	Flash Level 0%
		2–126	Flash Level 0% ... Flash Level 50%

CH	Function	DMX	Description
13	FX Control 1 (continued)	127–128	Flash Level 50%
		129–253	Flash Level 50% ... Flash Level 100%
		254–255	Flash Level 100%
			When CH 12 is 70–79:
		0–1	0% Speed
		2–119	0% Speed ... 50% Speed
		120–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 12 is 80–89:
		0–19	Custom
		20–39	Candle Calm
		40–59	Candle Windy
		60–79	Fireplace
		80–99	Campfire
		100–119	Bon Fire
		120–139	Inferno
		140–159	Gas Fire
		160–179	RESERVED
		180–255	Candle and Fire
			When CH 12 is 90–99:
		0–9	Custom
		10–19	Blue Slow
		20–29	Blue Fast
		30–39	Blue Double
		40–49	Blue Burst
		50–59	Blue/Red Slow
		60–69	Blue/Red Fast
		70–79	Blue/Red Double
		80–89	Blue/Red Burst
		90–99	Blue/Red Rapid
		100–109	Blue/Red/White Rapid
		110–119	Red Warning
		120–129	Amber Ping
		130–139	Magenta Burst
		140–255	RESERVED
			When CH 12 is 100–109:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed

CH	Function	DMX	Description
13	FX Control 1 (continued)	250–255	100% Speed
			When CH 12 is 110–119:
		0–1	0% Speed
		2–127	0% Speed ... 50% Speed
		128–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 12 is 120–129:
		0–19	Primary 6
		20–39	Primary 12
		40–59	Primary 24
		60–79	Warm
		80–99	Cool
		100–119	Warm and Cool
		120–139	Pastel
		140–159	Purple Rain
		160–179	Ultra Violet
		180–255	RESERVED
			When CH 12 is 130–139:
		0–1	0% Frequency
		2–127	0% Frequency ... 50% Frequency
		128–130	50% Frequency
		131–249	50% Frequency ... 100% Frequency
		250–255	100% Frequency
			When CH 12 is 250–255:
		0	0 Sync Phase
		1–127	0 Sync Phase ... 180 Sync Phase
		128	180 Sync Phase
		129–254	180 Sync Phase ... 360 Sync Phase
		255	360 Sync Phase
14	FX Control 2		When CH 12 is 20–29:
		0	1% Duty Cycle
		1–253	1% Duty Cycle ... 99% Duty Cycle
		254–255	99% Duty Cycle
			When CH 12 is 30–39:
		0–1	1ms Flash Length
		2–63	1ms Flash Length ... 50ms Flash Length
		64	50ms Flash Length
		65–126	50ms Flash Length ... 100ms Flash Length
		127	100ms Flash Length
		128–190	100ms Flash Length ... 150ms Flash Length
		191	150ms Flash Length

CH	Function	DMX	Description
14	FX Control 2 (continued)	192–254	150ms Flash Length ... 200ms Flash Length
		255	200ms Flash Length
			When CH 12 is 40–49:
		0–1	1 Frame On
		2–127	1 Frame On ... 128 Frames On
		128	128 Frames On
		129–254	128 Frames On ... 255 Frames On
		255	255 Frames On
			When CH 12 is 50–59:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 12 is 60–69:
		0–9	1/5000
		10–19	1/2000
		20–29	1/1000
		30–39	1/800
		40–49	1/500
		50–59	1/320
		60–69	1/250
		70–79	1/125
		80–89	1/60
		90–99	1/30
		100–109	1/15
		110–119	1/10
		120–129	1/5
		130–255	RESERVED
			When CH 12 is 70–79:
		0	0deg Red
		1–41	0deg Red ... 60deg Yellow
		42	60deg Yellow
		43–84	60deg Yellow ... 120deg Green
		85	120deg Green
		86–126	120deg Green ... 180deg Cyan
		127	180deg Cyan
		128–169	180deg Cyan ... 240deg Blue
		170	240deg Blue
		171–211	240deg Blue ... 300deg Magenta
		212	300deg Magenta
		213–254	300deg Magenta ... 360deg Red
		255	360deg Red
			When CH 12 is 80–89:
		0–1	0% Intensity

CH	Function	DMX	Description
14	FX Control 2 (continued)	2–127	0% Intensity ... 50% Intensity
		128–130	50% Intensity
		131–249	50% Intensity ... 100% Intensity
		250–255	100% Intensity
			When CH 12 is 90–99:
		0–14	Blue
		15–29	Blue / Red
		30–44	Blue / White
		45–59	Blue / Amber
		60–74	Blue / White / Red
		75–89	Blue / Amber / Red
		90–104	Red / Amber
		105–119	Red
		120–134	Amber
		135–149	Magenta
		150–164	Green
		165–179	White
		180–244	RESERVED
		245–255	Colour Mode Slots to Set Colour
			When CH 12 is 100–109:
		0–1	0% Intensity
		2–126	0% Intensity ... 50% Intensity
		127–130	50% Intensity
		131–249	50% Intensity ... 100% Intensity
		250–255	100% Intensity
			When CH 12 is 110–119:
		0–1	0% Decay Speed
		2–126	0% Decay Speed ... 50% Decay Speed
		127–130	50% Decay Speed
		131–249	50% Decay Speed ... 100% Decay Speed
		250–255	100% Decay Speed
			When CH 12 is 120–129:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–130	50% Speed
		131–249	50% Speed ... 100% Speed
		250–255	100% Speed
			When CH 12 is 130–139:
		0–1	0% Pulse Speed
		2–126	0% Pulse Speed ... 50% Pulse Speed
		127–130	50% Pulse Speed
		131–249	50% Pulse Speed ... 100% Pulse Speed

CH	Function	DMX	Description
14	FX Control 2 (continued)	250–255	100% Pulse Speed
15	FX Control 3		When CH 12 is 20–29:
		0–254	Run
		255	Restart Effect
			When CH 12 is 30–39:
		0–1	0% Variation
		2–63	0% Variation ... 25% Varitation
		64	25% Varitation
		65–126	25% Varitation ... 50% Variation
		127	50% Variation
		128–190	50% Variation ... 75% Variation
		191	75% Variation
		192–254	75% Variation ... 100% Variation
		255	100% Variation
			When CH 12 is 40–49:
		0–1	1 Frame Off
		2–126	1 Frame Off ... 127 Frames Off
		127	127 Frames Off
		128–254	127 Frames Off ... 255 Frames Off
		255	255 Frames Off
			When CH 12 is 50–59:
		0–127	Normal Level
		128–255	Flash Level
			When CH 12 is 60–69:
		0–127	Effect Disabled
		128–255	Effect Enabled
			When CH 12 is 70–79:
		0–254	Run
		255	Effect Restart
			When CH 12 is 80–89:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 12 is 90–99:
		0–9	1 Flash
		10–19	2 Flash
		20–29	3 Flash
		30–39	4 Flash
		40–49	5 Flash

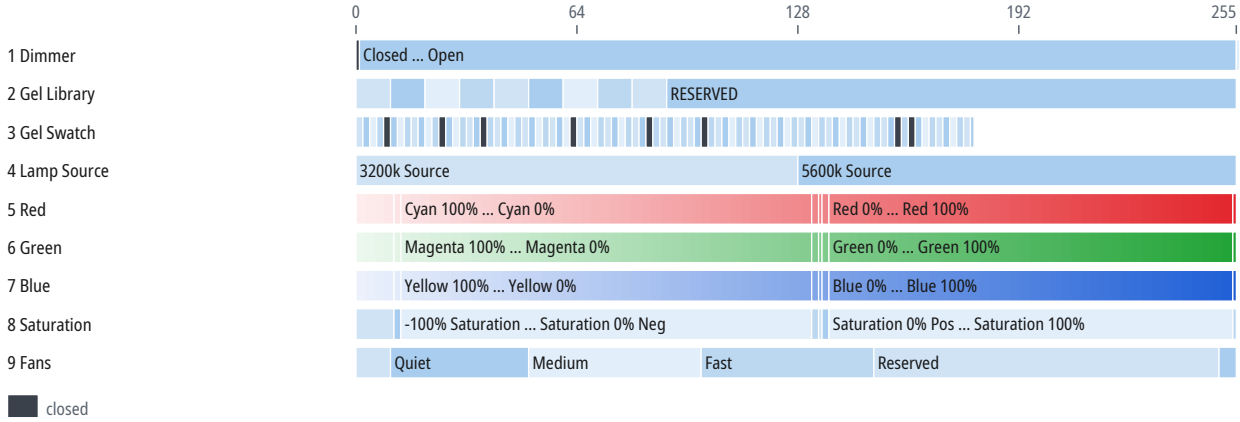
CH	Function	DMX	Description
15	FX Control 3 (continued)	50–59	6 Flash
		60–69	7 Flash
		70–79	8 Flash
		80–89	9 Flash
		90–99	10 Flash
		100–109	11 Flash
		110–119	12 Flash
		120–129	13 Flash
		130–139	14 Flash
		140–149	15 Flash
		150–159	16 Flash
		160–169	17 Flash
		170–179	18 Flash
		180–189	19 Flash
		190–199	20 Flash
		200–255	RESERVED
			When CH 12 is 100–109:
		0–1	2200k
		2–126	2200k ... 3900k
		127	3900k
		128–254	3900k ... 10000k
		255	10000k
			When CH 12 is 110–119:
		0–1	1700k
		2–243	1700k ... 15000k
		244	15000k
		245–255	Use Colour Mode Slots For Colour
			When CH 12 is 120–129:
		0–39	Immediate Transistion
		40–79	Fade Transition
		80–119	Fade - Random Transition Speed
		120–255	RESERVED
16	FX Control 4		When CH 12 is 40–49:
		0	0 Frames Offset
		1–127	0 Frames Offset ... 128 Frames Offset
		128	128 Frames Offset
		129–254	128 Frames Offset ... 255 Frames Offset
		255	255 Frames Offset
			When CH 12 is 60–69:
		0–127	Trigger Off
		128–255	Trigger On

CH	Function	DMX	Description
16	FX Control 4 (continued)		When CH 12 is 80–89:
		0–1	1400k
		2–121	1400k ... 2100k
		122	2100k
		123–243	2100k ... 5600k
		244	5600k
		245–255	Colour Mode Slots for Colour
			When CH 12 is 90–99:
		0–1	0% Speed
		2–126	0% Speed ... 50% Speed
		127–128	50% Speed
		129–253	50% Speed ... 100% Speed
		254–255	100% Speed
			When CH 12 is 120–129:
		0–1	0% Transition Speed
		2–126	0% Transition Speed ... 50% Transition Speed
		127–128	50% Transition Speed
		129–253	50% Transition Speed ... 100% Transition Speed
		254–255	100% Transition Speed
17	FX Control 5		When CH 12 is 40–49:
		0–127	Effect Enable
		128–255	Effect Disable
			When CH 12 is 90–99:
		0–1	0 Seconds Pause
		2–126	0 Seconds Pause ... 1 Second Pause
		127–128	1 Second Pause
		129–253	1 Second Pause ... 2 Seconds Pause
		254–255	2 Seconds Pause
18	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 27: Gels Colour Bump(9ch) 8 Bit

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 5 Red 134, CH 6 Green 134, CH 7 Blue 134.

Channel functions at a glance



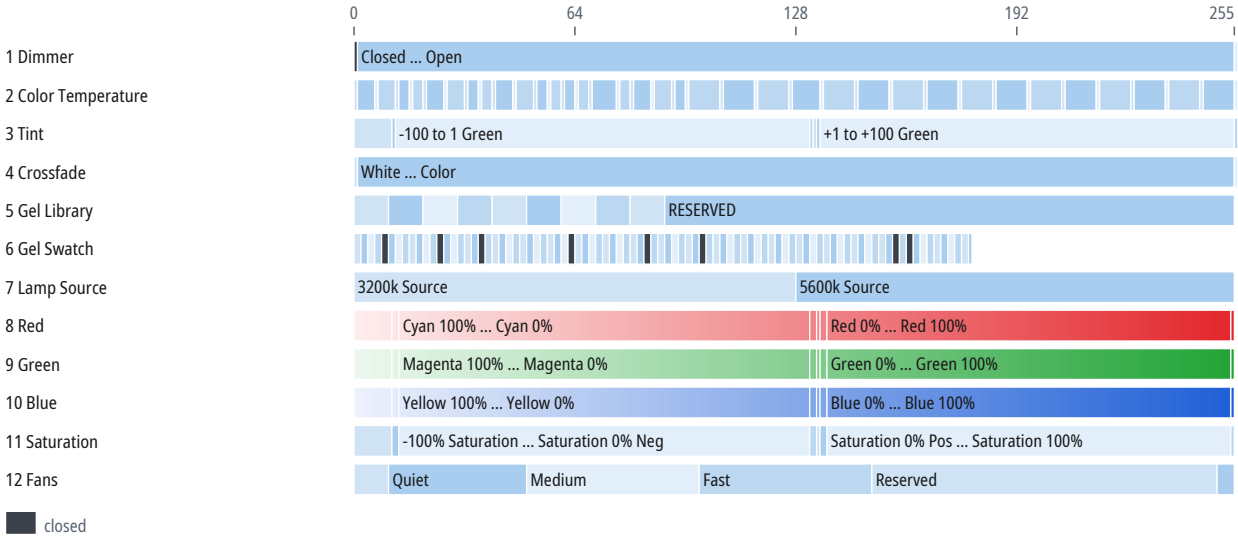
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Gel Library		Same as CH 2 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 68)
3	Gel Swatch		Same as CH 3 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 68)
4	Lamp Source		Same as CH 4 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 77)
5	Red	0–10	No Value
		11–12	Cyan 100%
		13–131	Cyan 100% ... Cyan 0%
		132–133	Cyan 0%
		134	Neutral
		135–136	Red 0%
		137–253	Red 0% ... Red 100%
		254–255	Red 100%
6	Green	0–10	No Value
		11–12	Magenta 100%
		13–131	Magenta 100% ... Magenta 0%
		132–133	Magenta 0%
		134	Neutral
		135–136	Green 0%
		137–253	Green 0% ... Green 100%
		254–255	Green 100%
7	Blue	0–10	No Value
		11–12	Yellow 100%
		13–131	Yellow 100% ... Yellow 0%
		132–133	Yellow 0%

CH	Function	DMX	Description
7	Blue (continued)	134	Neutral
		135–136	Blue 0%
		137–253	Blue 0% ... Blue 100%
		254–255	Blue 100%
8	Saturation	0–10	Neutral 0%
		11–12	-100% Saturation
		13–131	-100% Saturation ... Saturation 0% Neg
		132–133	Saturation 0% Neg
		134	Neutral 50%
		135–136	Saturation 0% Pos
		137–253	Saturation 0% Pos ... Saturation 100%
		254–255	Saturation 100%
9	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 28: CCT and Gels Colour Bump(12ch) 8 Bit

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 2 Color Temperature 255, CH 8 Red 134, CH 9 Green 134, CH 10 Blue 134.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
2	Color Temperature		Same as CH 2 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 9)
3	Tint		Same as CH 3 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
4	Crossfade		Same as CH 4 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)
5	Gel Library		Same as CH 2 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 68)

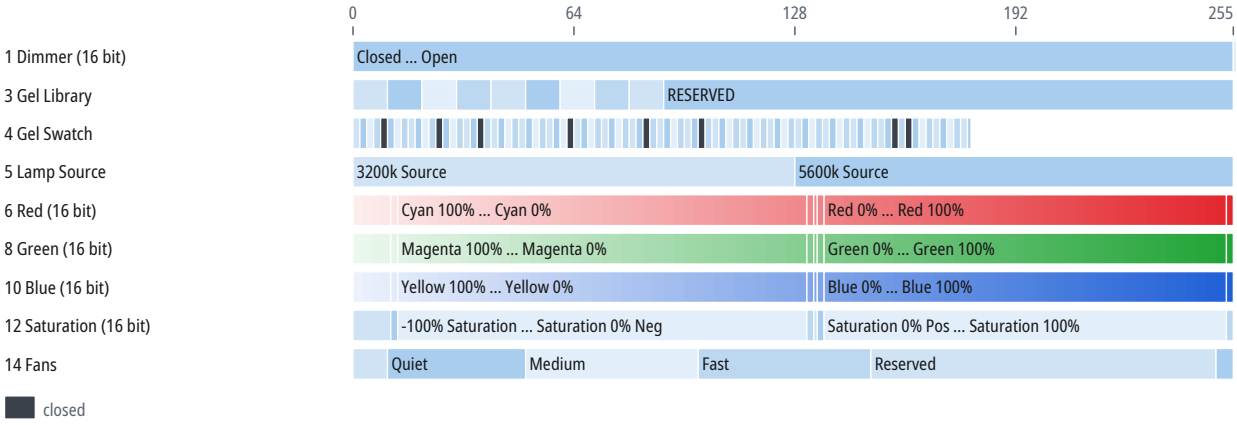
CH	Function	DMX	Description
6	Gel Swatch		Same as CH 6 in the mode “Mode 22: CCT Gels (8 Ch) 8 Bit” (p. 77)
7	Lamp Source		Same as CH 4 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 77)
8	Red	0–10	Neutral 0%
		11–12	Cyan 100%
		13–131	Cyan 100% ... Cyan 0%
		132–133	Cyan 0%
		134	Neutral 50%
		135–136	Red 0%
		137–253	Red 0% ... Red 100%
		254–255	Red 100%
9	Green	0–10	Neutral 0%
		11–12	Magenta 100%
		13–131	Magenta 100% ... Magenta 0%
		132–133	Magenta 0%
		134	Neutral 50%
		135–136	Green 0%
		137–253	Green 0% ... Green 100%
		254–255	Green 100%
10	Blue	0–10	Neutral 0%
		11–12	Yellow 100%
		13–131	Yellow 100% ... Yellow 0%
		132–133	Yellow 0%
		134	Neutral 50%
		135–136	Blue 0%
		137–253	Blue 0% ... Blue 100%
		254–255	Blue 100%
11	Saturation		Same as CH 8 in the mode “Mode 27: Gels Colour Bump(9ch) 8 Bit” (p. 122)
12	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 29: Gels Colour Bump(14ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 6 Red 134, CH 8 Green 134, CH 10 Blue 134.

Channel functions at a glance



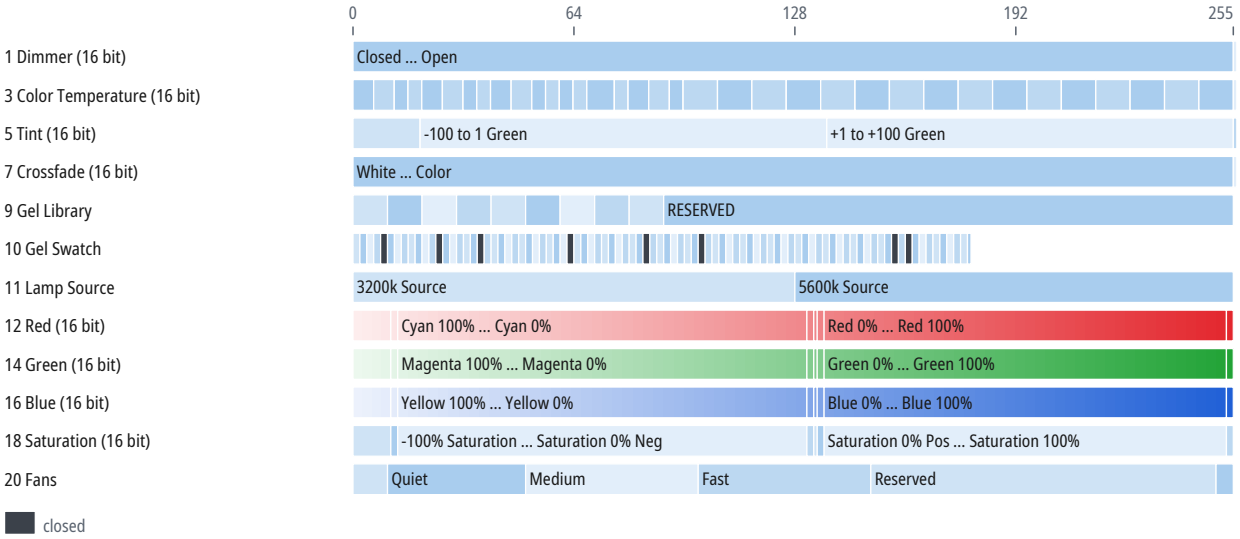
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Gel Library		Same as CH 2 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 68)
4	Gel Swatch		Same as CH 4 in the mode “Mode 24: Gels (6ch) 16 Bit” (p. 95)
5	Lamp Source		Same as CH 4 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 77)
6	Red		Same as CH 8 in the mode “Mode 28: CCT and Gels Colour Bump(12ch) 8 Bit” (p. 123)
7	Red Fine	0–255	Fine adjustment of CH 6
8	Green		Same as CH 9 in the mode “Mode 28: CCT and Gels Colour Bump(12ch) 8 Bit” (p. 123)
9	Green Fine	0–255	Fine adjustment of CH 8
10	Blue		Same as CH 10 in the mode “Mode 28: CCT and Gels Colour Bump(12ch) 8 Bit” (p. 123)
11	Blue Fine	0–255	Fine adjustment of CH 10
12	Saturation		Same as CH 8 in the mode “Mode 27: Gels Colour Bump(9ch) 8 Bit” (p. 122)
13	Saturation Fine	0–255	Fine adjustment of CH 12
14	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

Mode 30: CCT and Gels Colour Bump(20ch) 16 Bit

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. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Color Temperature 255, CH 12 Red 134, CH 14 Green 134, CH 16 Blue 134.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 15)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 5 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Crossfade		Same as CH 7 in the mode “Mode 6: CCT RGBW (19ch) 16 Bit” (p. 16)
8	Crossfade Fine	0–255	Fine adjustment of CH 7
9	Gel Library		Same as CH 2 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 68)
10	Gel Swatch		Same as CH 10 in the mode “Mode 25: CCT Gels (12 Ch) 16 Bit” (p. 104)
11	Lamp Source		Same as CH 4 in the mode “Mode 21: Gels (5ch) 8 Bit” (p. 77)
12	Red		Same as CH 8 in the mode “Mode 28: CCT and Gels Colour Bump(12ch) 8 Bit” (p. 123)
13	Red Fine	0–255	Fine adjustment of CH 12
14	Green		Same as CH 9 in the mode “Mode 28: CCT and Gels Colour Bump(12ch) 8 Bit” (p. 123)
15	Green Fine	0–255	Fine adjustment of CH 14
16	Blue		Same as CH 10 in the mode “Mode 28: CCT and Gels Colour Bump(12ch) 8 Bit” (p. 123)

CH	Function	DMX	Description
17	Blue Fine	0–255	Fine adjustment of CH 16
18	Saturation		Same as CH 8 in the mode “Mode 27: Gels Colour Bump(9ch) 8 Bit” (p. 122)
19	Saturation Fine	0–255	Fine adjustment of CH 18
20	Fans		Same as CH 10 in the mode “Mode 1: CCT RGBW (10ch) 8 Bit” (p. 11)

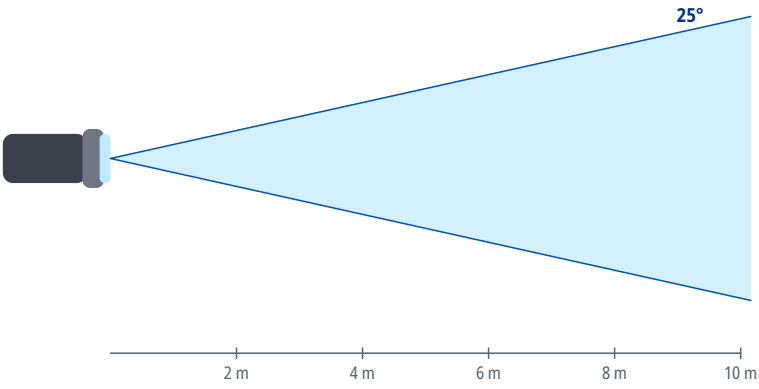
9 Technical specifications

Parameter	Value
Light source	LED
RDM	yes (manufacturer ID 0x4F75, device model ID 0x0300)
Weight	17.8 kg
Operating temperature	0 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	1400–15000 K

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.

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.