DMX REFERENCE

KL Batten 48

Elation



Manufacturer	Elation
GDTF file	Elation_KL_Batten_48_142699.gdtf
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Contents

1 About this manual 2
2 Quick reference 3
3 Safety instructions 4
4 Product description 4
5 Installation 5
6 Connections 5
7 Operation 6
8 Functions at a glance 6
9 DMX channels 13
Mode Dimmer 1CH 14
Mode RGB 3CH 14
Mode RGBA 15
Mode Dimmer/ CCT 4CH 16
Mode HSI 3CH 16
Mode HSIC 6CH 17
Mode RGBMA 10CH 18
Mode Standard 14ch 19
Mode Extended 22ch 27
Mode xy Extended 16CH 30
Mode RGB 2 Cell 6CH 32
Mode RGBA 2 Cell 8CH 33
Mode HSI 2 Cell 6CH 34
Mode RGBMA 2 Cell 20CH 36
Mode Standard 2 Cell 20CH 38
Mode Extended 2 Cell 35CH 43
Mode RGB 4 Cell 12CH 45
Mode RGBA 4 Cell 16CH 47
Mode HSI 4 Cell 12CH 48
Mode RGBMA 4 Cell 40CH 50
Mode Standard 4 Cell 32CH 53
Mode Extended 4 Cell 61 59
Mode RGB 8 Cell 24CH 62
Mode HSI 8 Cell 24CH 63
Mode Extended 8 Cell 113CH 64
Mode HSI 16 Cell 48CH 66
Mode Standard 16 Cell 104CH 68
Mode Extended 16 Cell 217ch 70
10 Technical specifications 73
11 Maintenance and cleaning 73
12 Troubleshooting 74
13 Disposal 74

1 About this manual

This document describes the KL Batten 48 by Elation. It was compiled from the GDTF file Elation_KL_Batten_48_142699.gdtf from the GDTF-Share library.

File revision: “26-14-05 Release”.

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 Elation; 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	19.6 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Dimmer 1CH	1	512	1, 2, 3, 4, ...
RGB 3CH	3	170	1, 4, 7, 10, ...
RGBA	4	128	1, 5, 9, 13, ...
Dimmer/ CCT 4CH	4	128	1, 5, 9, 13, ...
HSI 3CH	3	170	1, 4, 7, 10, ...
HSIC 6CH	6	85	1, 7, 13, 19, ...
RGBMA 10CH	10	51	1, 11, 21, 31, ...
Standard 14ch	14	36	1, 15, 29, 43, ...
Extended 22ch	22	23	1, 23, 45, 67, ...
xy Extended 16CH	16	32	1, 17, 33, 49, ...
RGB 2 Cell 6CH	6	85	1, 7, 13, 19, ...
RGBA 2 Cell 8CH	8	64	1, 9, 17, 25, ...
HSI 2 Cell 6CH	6	85	1, 7, 13, 19, ...
RGBMA 2 Cell 20CH	20	25	1, 21, 41, 61, ...
Standard 2 Cell 20CH	20	25	1, 21, 41, 61, ...
Extended 2 Cell 35CH	35	14	1, 36, 71, 106, ...
RGB 4 Cell 12CH	12	42	1, 13, 25, 37, ...
RGBA 4 Cell 16CH	16	32	1, 17, 33, 49, ...
HSI 4 Cell 12CH	12	42	1, 13, 25, 37, ...
RGBMA 4 Cell 40CH	40	12	1, 41, 81, 121, ...
Standard 4 Cell 32CH	32	16	1, 33, 65, 97, ...
Extended 4 Cell 61	61	8	1, 62, 123, 184, ...
RGB 8 Cell 24CH	24	21	1, 25, 49, 73, ...
HSI 8 Cell 24CH	24	21	1, 25, 49, 73, ...
Extended 8 Cell 113CH	113	4	1, 114, 227, 340
HSI 16 Cell 48CH	48	10	1, 49, 97, 145, ...
Standard 16 Cell 104CH	104	4	1, 105, 209, 313
Extended 16 Cell 217ch	217	2	1, 218



Read the manual before use



Do not stare into the light



Indoor use only

3 Safety instructions



Read the manual before use



Do not stare into the light



Indoor use only

⚠ WARNING

- This device is intended for professional use. Installation, connection, setup and maintenance must be carried out only by suitably qualified persons who have read this manual.
- Use the device only for its intended purpose and as described in this manual.
- Do not open the housing and do not modify or tamper with the device. Refer all repairs to an authorized service center.
- Do not use the device if its housing, power or data cable, or a connector is damaged, if the device has been dropped, or if liquid or a foreign object has entered it. In such a case, have it checked by a service center.
- Disconnect the device from the power supply before cleaning, maintenance or any work on the connections.
- After moving the device from a cold to a warm environment, let it reach room temperature before switching it on to prevent condensation inside.
- The device is not a toy; keep it out of the reach of children.

⚠ WARNING

- This device is designed for indoor use only. Protect it from rain, splashing water, moisture and dust, and do not place containers with liquids on it.
- Do not operate the device in high humidity, near water, or where condensation can form on it.

⚠ CAUTION

- This device emits intense light. Do not look directly into the light source or the beam at close range; doing so may damage your eyes.
- Do not aim the beam at the eyes of people or animals at close range, and do not view the light source through optical instruments (binoculars, camera lenses).
- Do not aim the beam at flammable or heat-sensitive materials at close range.

⚠ CAUTION

- Strobe and fast flashing light effects can trigger epileptic seizures in susceptible people (photosensitive epilepsy) and can cause nausea or disorientation.
- Inform the audience and performers in advance that strobe effects will be used, for example with a notice at the entrance, and do not use them longer than necessary.

4 Product description

Description in the GDTF file

“Perfect for the grandest stage and the great outdoors, the powerful KL BATTEN 48 delivers over 46,500 lumens of smooth, even light. The RGBMA LED engine and its homogeneous beam produces natural, full-spectrum light, with a high CRI that looks good on stage and in the studio.”

5 Installation

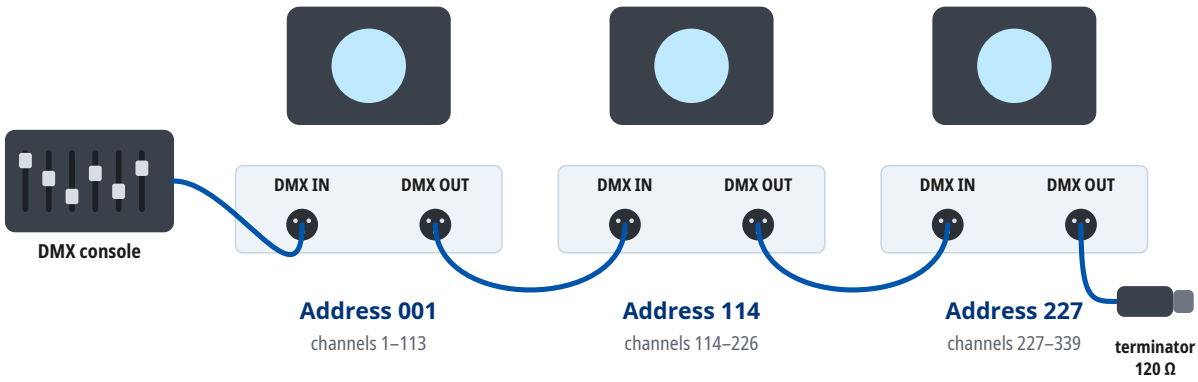
⚠ WARNING

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 19.6 kg.
- Use suitable mounting hardware (for example truss clamps) and tighten all screw connections properly.
- Always secure the suspended device against falling with a safety cable of adequate load capacity, routed through a fixed point of the device and around the supporting structure.
- During installation and removal, keep people out of the area below the work position.
- Regularly inspect the fixings and the safety cable for damage, corrosion and loosening.

6 Connections

- Use shielded cable designed for DMX512 with an impedance of 110 Ω. Ordinary microphone cable is not suitable for DMX, especially over longer distances.
- Connect the devices in a daisy chain: connect the DMX OUT of one device to the DMX IN of the next. Do not split the line with Y-cables or wire it in a star; the line may be split only with a DMX splitter.
- Connect the shield to pin 1 only. Do not connect the shield (ground) to the metal shell of the connector; this can cause short circuits or erratic behavior.
- XLR pin assignment: pin 1 – shield (ground), pin 2 – Data- (Data Complement), pin 3 – Data+ (Data True). On 5-pin connectors, pins 4 and 5 are not connected; a 5-pin connector can be connected to a 3-pin one with a cable adapter.
- Terminate the end of the line (for impedance matching): plug an XLR connector with a 120 Ω, ¼ W resistor between pins 2 and 3 into the DMX OUT of the last device. This reduces the risk of erratic behavior.
- Connect no more than 32 devices to one DMX line. For more devices or longer runs, use a DMX splitter or booster.

DMX line



Mode Extended 8 Cell 113CH: every unit occupies 113 channels from its address. At most 32 units on one line; for more units or longer runs use a DMX splitter. A 120 Ω terminator closes the last DMX OUT.

7 Operation

Setting the DMX address

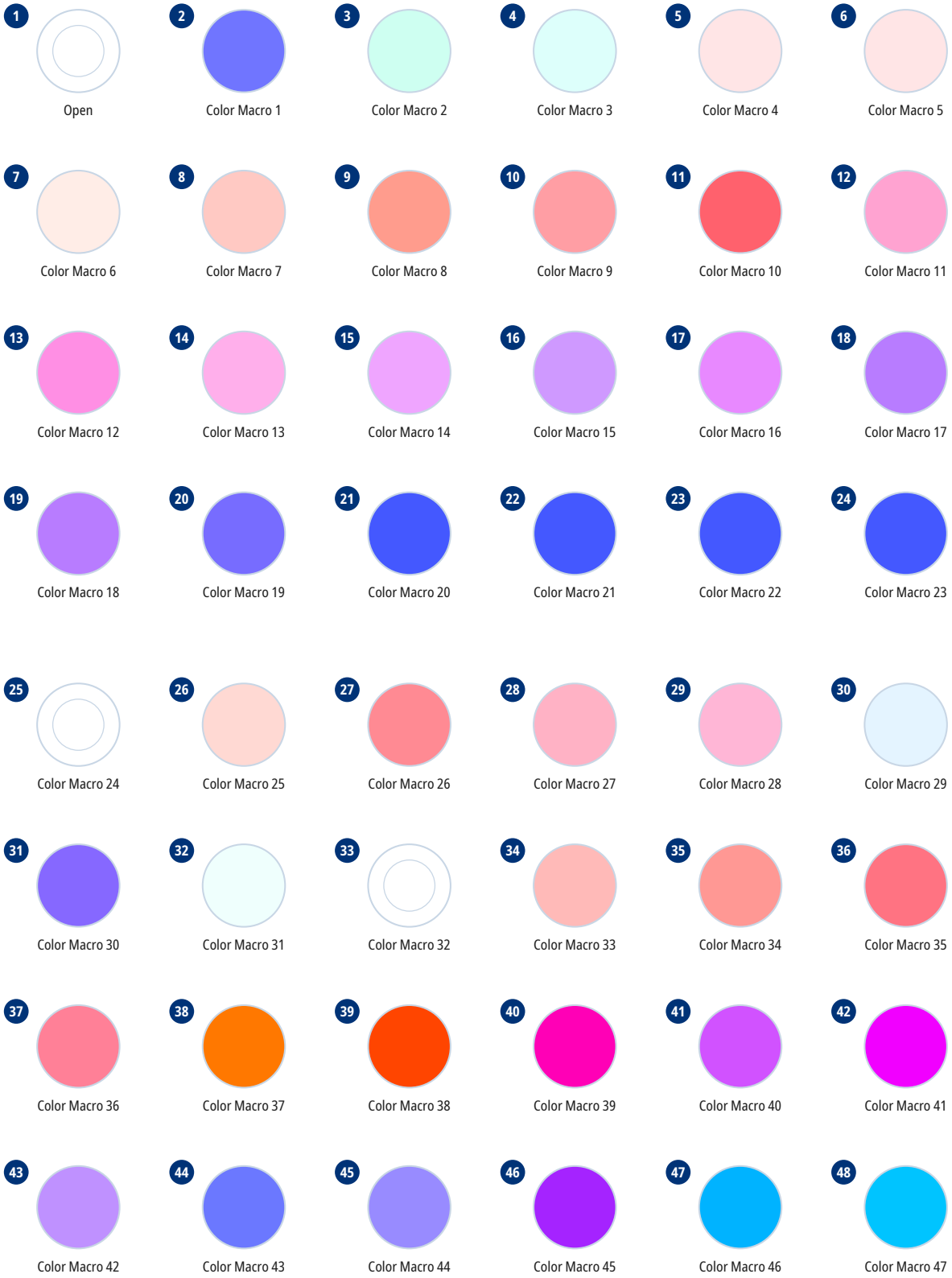
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Extended 16 Cell 217ch”: 217.
- Choose start addresses so that the channels of individual devices do not overlap and 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 “Extended 16 Cell 217ch”, you can use, for example, the start addresses 1, 218.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.
- The device supports RDM (Remote Device Management), two-way communication with the controller over the DMX line.

8 Functions at a glance

Functions in each DMX mode

	Dimmer 1CH 1 channel	RGB 3CH 3 channels	RGBA 4 channels	Dimmer/ CCT 4CH 4 channels	HSI 3CH 3 channels	HSIC 6CH 6 channels	RGBMA 10CH 10 channels	Standard 14ch 14 channels
Dimmer	1	✓	✓	1	3	3	✓	1
Dimmer resolution	8 bit			16 bit	8 bit	8 bit		16 bit
Shutter / strobe								3
Color mixing		1–3	1–4				5× (1–9)	4–8
Color temperature				3		5		9
Color wheel								10
Effects / macros								11–13

Color wheel 1



49 Color Macro 48
50 Color Macro 49
51 Color Macro 50
52 Color Macro 51
53 Color Macro 52
54 Color Macro 53
55 Color Macro 54
56 Color Macro 55
57 Color Macro 56
58 Color Macro 57
59 Color Macro 58
60 Color Macro 59
61 Color Macro 60
62 Color Macro 61
63 Color Macro 62
64 Color Macro 63
65 Color Macro 64

Color wheel 2

1 Pale Yellow DMX 1
2 Straw DMX 2
3 Gold Tint DMX 3
4 Spring Yellow DMX 4
5 Medium Yellow DMX 5
6 Yellow DMX 6
7 Deep Amber DMX 7
8 Deep Straw DMX 8
9 Loving Amber DMX 9
10 Gold Amber DMX 10
11 Orange DMX 11
12 Deep Orange DMX 12
13 Dark Amber DMX 13
14 Millennium Gold DMX 14
15 Deep Golden Amber DMX 15
16 Scarlet DMX 16
17 Primary Red DMX 17
18 Bright Red DMX 18
19 Medium Red DMX 19
20 Fire DMX 20
21 Pink DMX 21
22 Medium Pink DMX 22
23 Dark Pink DMX 23
24 Bright Pink DMX 24

25 Bright Rose **DMX 25**

26 Special Rose Pink **DMX 26**

27 Vanity Fair **DMX 27**

28 Magenta **DMX 28**

29 Dark Magenta **DMX 29**

30 Rose Purple **DMX 30**

31 Mauve **DMX 31**

32 Medium Purple **DMX 32**

33 Lavender **DMX 33**

34 Palace blue **DMX 34**

35 Dark Blue **DMX 35**

36 Medium Blue **DMX 36**

37 Deep Blue **DMX 37**

38 Daylight Blue **DMX 38**

39 Slate Blue **DMX 39**

40 Light Blue **DMX 40**

41 Sky Blue **DMX 41**

42 Pale Navy Blue **DMX 42**

43 Marine Blue **DMX 43**

44 Peacock Blue **DMX 44**

45 Lagoon Blue **DMX 45**

46 Medium Blue Green **DMX 46**

47 Dark Yellow Green **DMX 47**

48 Primary Green **DMX 48**

49 Fern Green **DMX 49**

50 Moss Green **DMX 50**

51 Dark Green **DMX 51**

52 Lime Green **DMX 52**

53 Pale Green **DMX 53**

54 Quarter CT Blue **DMX 54**

55 Half CT Blue **DMX 55**

56 Full CT Blue **DMX 56**

57 Double CT Blue **DMX 57**

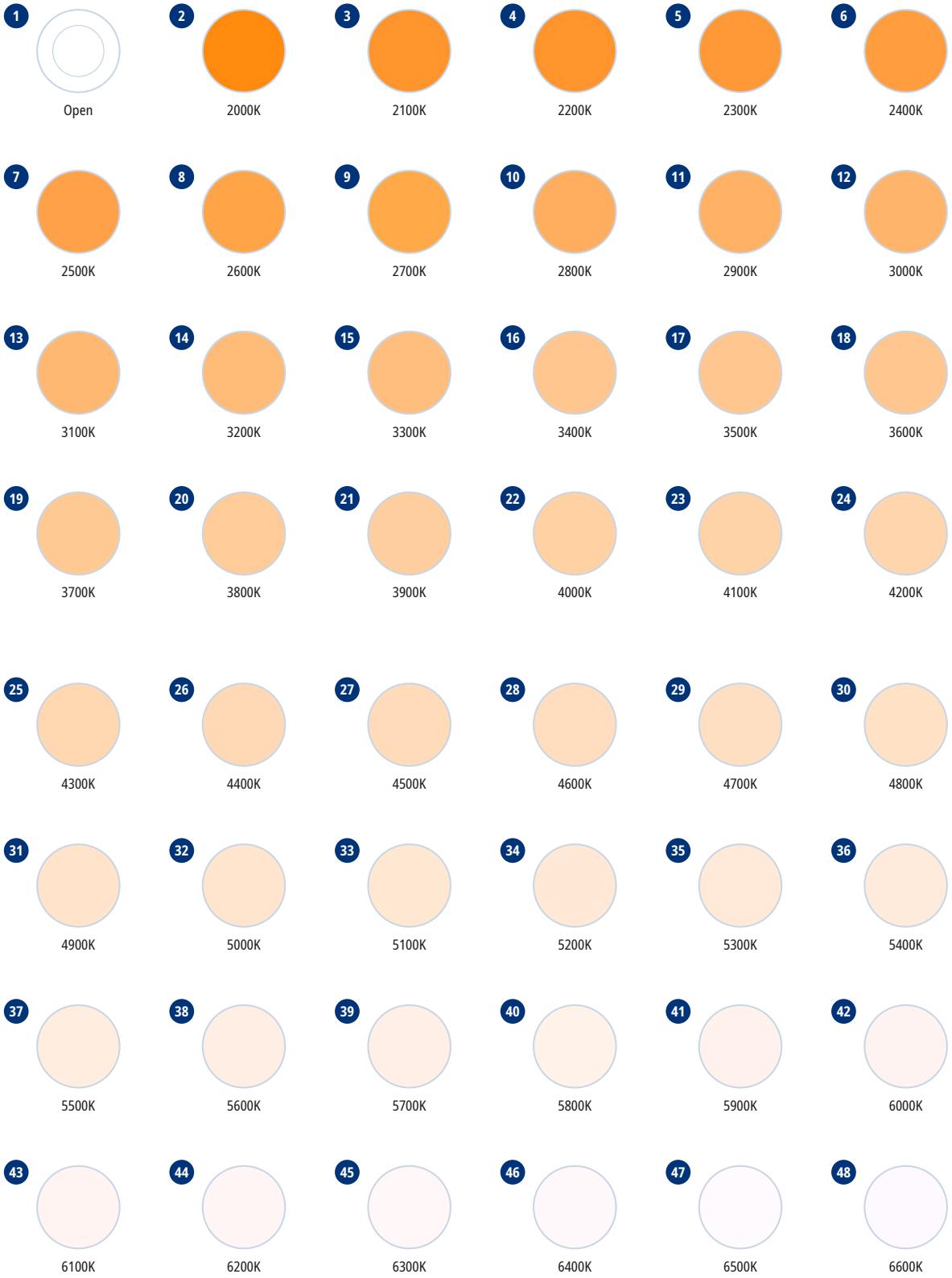
58 Quarter CT Orange **DMX 58**

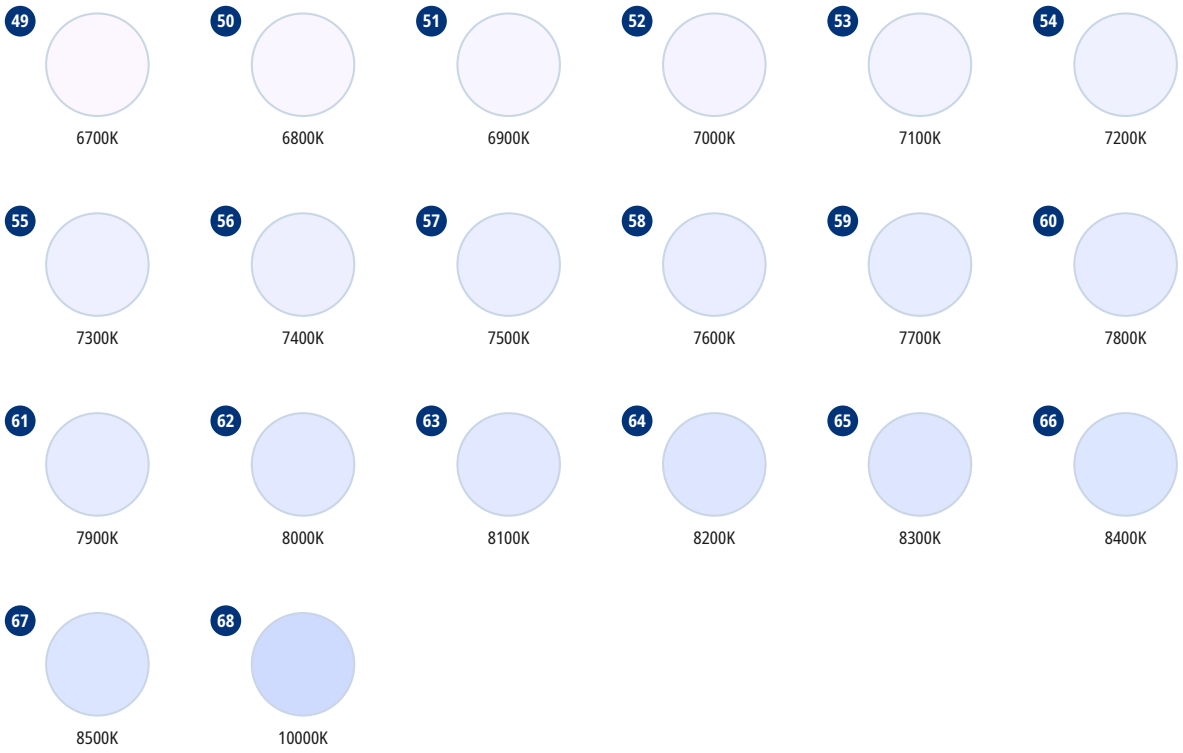
59 Half CT Orange **DMX 59**

60 LEE 204 - Full C T Orange **DMX 60–61**

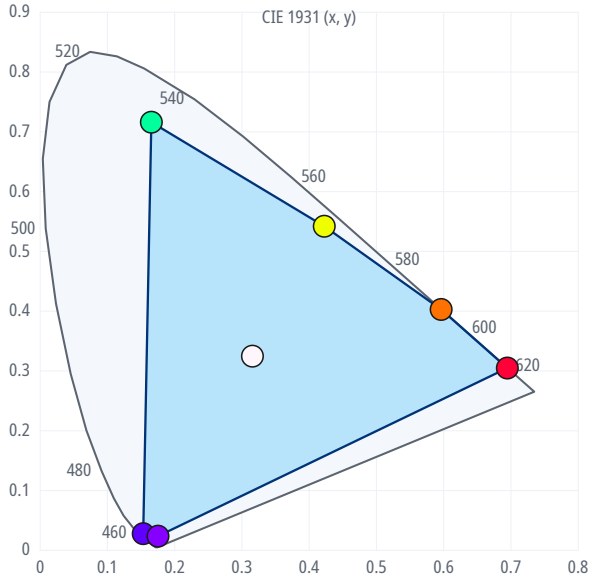
61 Open **DMX 0–1**

Color wheel 3





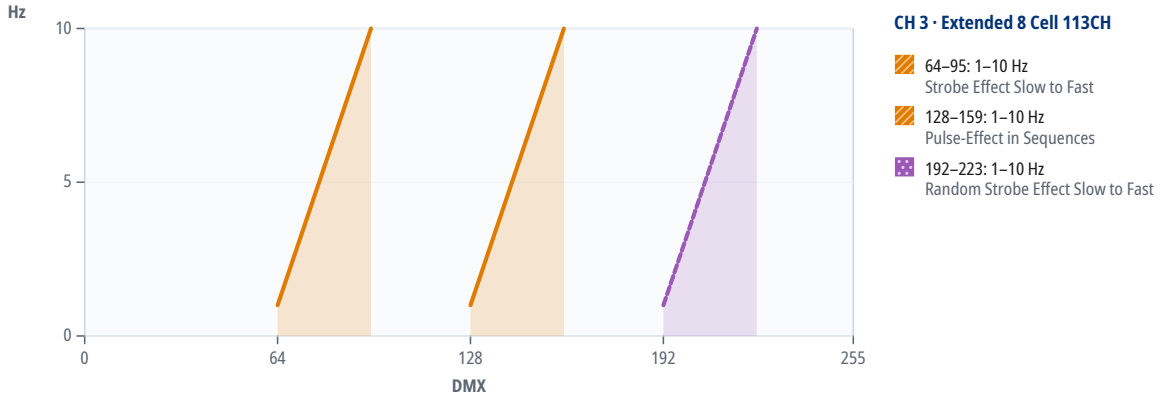
LED colors and the colors they mix



LED	x	y	nm
Red-LED	0.695	0.305	621
Green-LED	0.165	0.716	525
Blue-LED	0.153	0.028	455
Lime-LED	0.422	0.542	568
Amber-LED	0.596	0.403	593
UV-LED	0.175	0.024	433
White-LED	0.316	0.325	

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

Strobe rate



Cells (pixels)

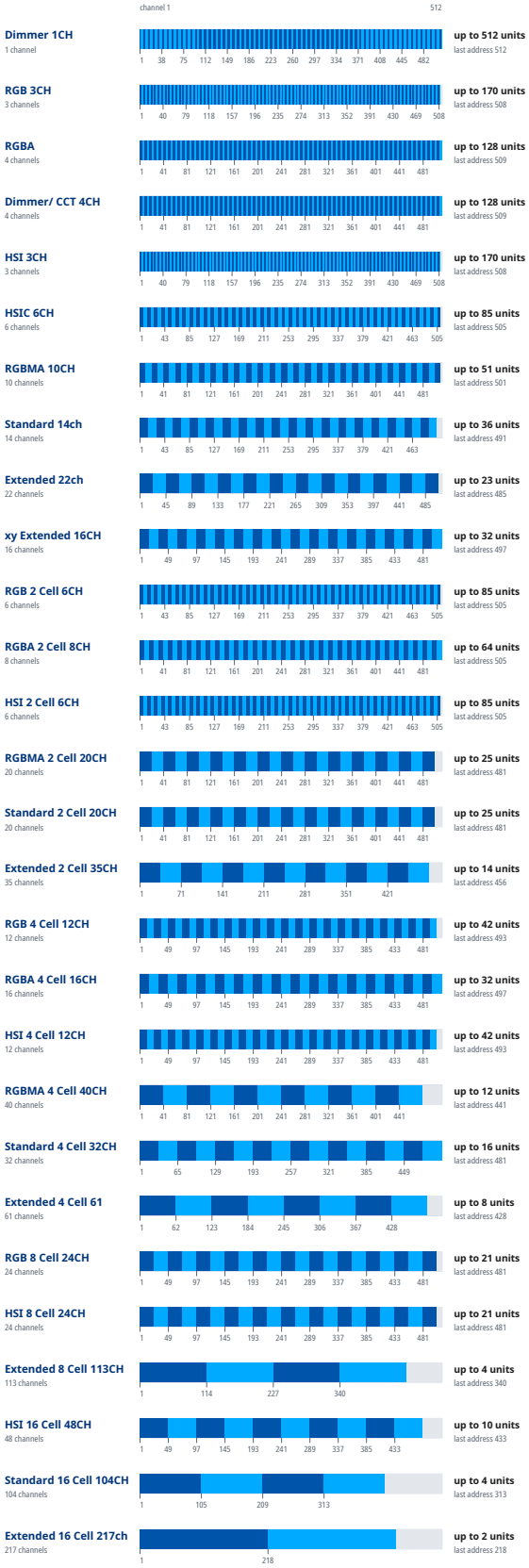
31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
CH 154	CH 144	CH 144	CH 134	CH 134	CH 124	CH 124	CH 114	CH 114	CH 104	CH 104	CH 94	CH 94	CH 84	CH 84	CH 74

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CH 74	CH 64	CH 64	CH 54	CH 54	CH 44	CH 44	CH 34	CH 34	CH 24	CH 24	CH 14	CH 14	CH 4	CH 4

31 cells in one row, left to right as the GDTF file places them (seen from above), wrapped after 16; numbered by their first DMX channel (CH) in the mode “Extended 8 Cell 113CH”.

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Extended 16 Cell 217ch”

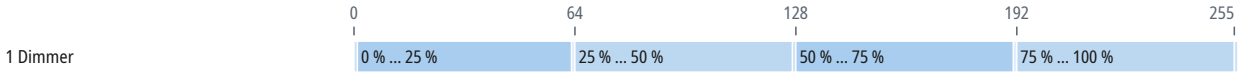
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	U3 · 218	11	U6 · 1	16	U8 · 218
2	218	7	U4 · 1	12	U6 · 218	17	U9 · 1
3	U2 · 1	8	U4 · 218	13	U7 · 1	18	U9 · 218
4	U2 · 218	9	U5 · 1	14	U7 · 218	19	U10 · 1
5	U3 · 1	10	U5 · 218	15	U8 · 1	20	U10 · 218

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

Mode Dimmer 1CH

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

Channel functions at a glance

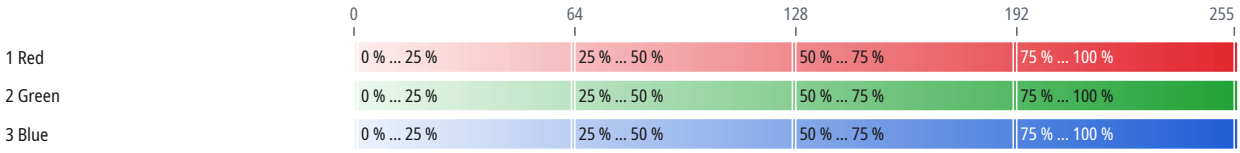


CH	Function	DMX	Description
1	Dimmer	0	0 %
		1–62	0 % ... 25 %
		63	25 %
		64–126	25 % ... 50 %
		127	50 %
		128–190	50 % ... 75 %
		191	75 %
		192–254	75 % ... 100 %
		255	100 %

Mode RGB 3CH

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

Channel functions at a glance



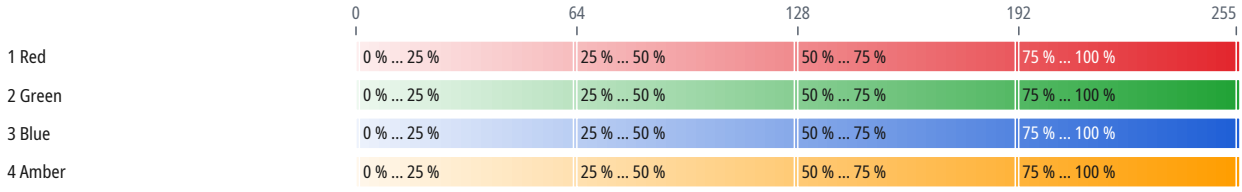
CH	Function	DMX	Description
1	Red	0	0 %
		1–62	0 % ... 25 %
		63	25 %
		64–126	25 % ... 50 %
		127	50 %
		128–190	50 % ... 75 %

CH	Function	DMX	Description
1	Red (continued)	191	75 %
		192–254	75 % … 100 %
		255	100 %
2	Green	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
3	Blue	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

Mode RGBA

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

Channel functions at a glance



CH	Function	DMX	Description
1	Red		Same as CH 1 in the mode “RGB 3CH” (p. 14)
2	Green		Same as CH 2 in the mode “RGB 3CH” (p. 15)
3	Blue		Same as CH 3 in the mode “RGB 3CH” (p. 15)
4	Amber	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %

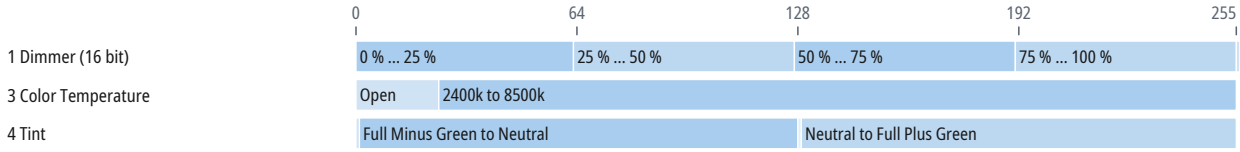
CH	Function	DMX	Description
4	Amber (continued)	191	75 %
		192–254	75 % … 100 %
		255	100 %

Mode Dimmer/ CCT 4CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

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

Channel functions at a glance

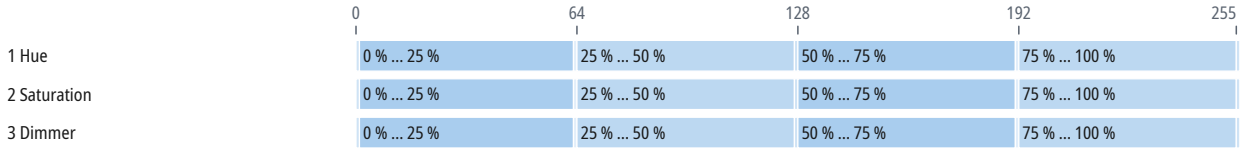


CH	Function	DMX	Description
1	Dimmer	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–23	Open
		24–255	2400k to 8500k (2400–8500 K)
4	Tint	0	Idle
		1–127	Full Minus Green to Neutral
		128	Neutral White
		129–255	Neutral to Full Plus Green

Mode HSI 3CH

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

Channel functions at a glance



CH	Function	DMX	Description
1	Hue	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %

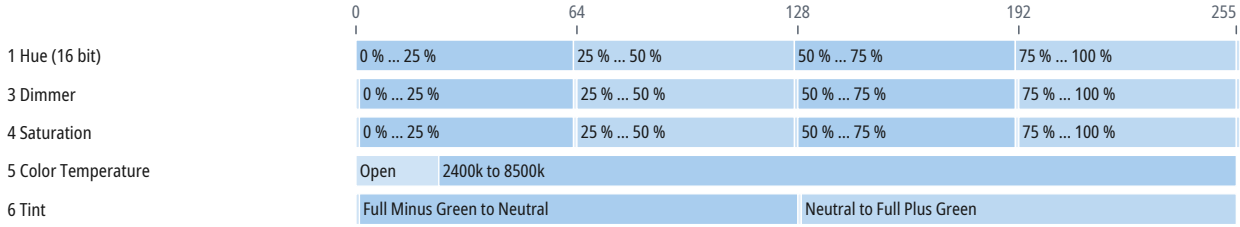
CH	Function	DMX	Description
1	Hue (continued)	191	75 %
		192–254	75 % … 100 %
		255	100 %
2	Saturation	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
3	Dimmer		Same as CH 1 in the mode “Dimmer 1CH” (p. 14)

Mode HSIC 6CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

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

Channel functions at a glance



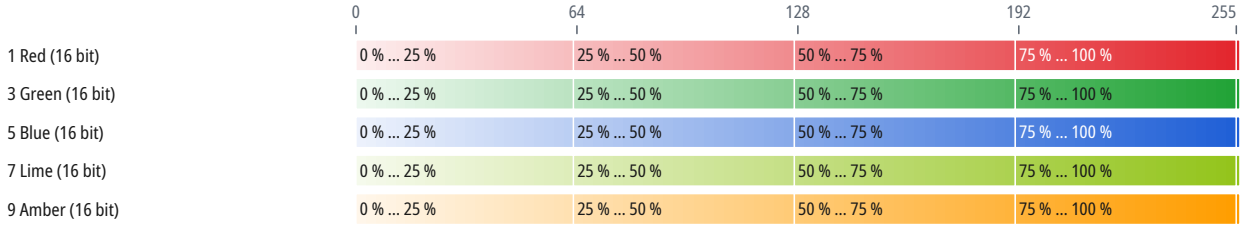
CH	Function	DMX	Description
1	Hue	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
2	Hue Fine	0–255	Fine adjustment of CH 1
3	Dimmer		Same as CH 1 in the mode “Dimmer 1CH” (p. 14)
4	Saturation		Same as CH 2 in the mode “HSI 3CH” (p. 17)
5	Color Temperature		Same as CH 3 in the mode “Dimmer/ CCT 4CH” (p. 16)
6	Tint		Same as CH 4 in the mode “Dimmer/ CCT 4CH” (p. 16)

Mode RGBMA 10CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

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

Channel functions at a glance



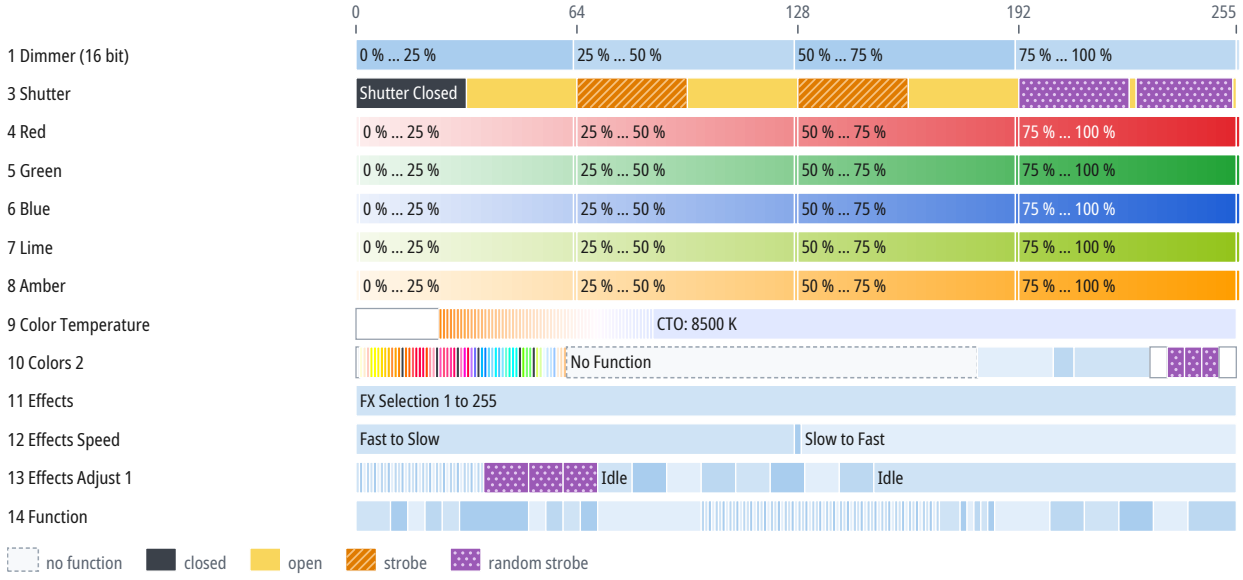
CH	Function	DMX	Description
1	Red	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
2	Red Fine	0–255	Fine adjustment of CH 1
3	Green	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
4	Green Fine	0–255	Fine adjustment of CH 3
5	Blue	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
6	Blue Fine	0–255	Fine adjustment of CH 5
7	Lime	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
8	Lime Fine	0–255	Fine adjustment of CH 7
9	Amber	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
10	Amber Fine	0–255	Fine adjustment of CH 9

Mode Standard 14ch

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Shutter 47, CH 4 Red 255, CH 5 Green 255, CH 6 Blue 255, CH 7 Lime 255, CH 8 Amber 255, CH 9 Color Temperature 0, CH 10 Colors 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Dimmer/ CCT 4CH” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter	0–31	Shutter Closed
		32–63	No Function (Shutter Open)
		64–95	Strobe Effect Slow to Fast (1–10 Hz)
		96–127	No Function (Shutter Open)
		128–159	Pulse-Effect in Sequences (1–10 Hz)
		160–191	No Function (Shutter Open)
		192–223	Random Strobe Effect Slow to Fast (1–10 Hz)
		224–225	No Function (Shutter Open)
		226–253	Random pixel slow to fast (1–10 Hz)
		254–255	No Function(Shutter open)
4	Red		Same as CH 1 in the mode “RGB 3CH” (p. 14)
5	Green		Same as CH 2 in the mode “RGB 3CH” (p. 15)
6	Blue		Same as CH 3 in the mode “RGB 3CH” (p. 15)
7	Lime	0	0 %
		1–62	0 % ... 25 %
		63	25 %
		64–126	25 % ... 50 %
		127	50 %
		128–190	50 % ... 75 %

CH	Function	DMX	Description
7	Lime (continued)	191	75 %
		192–254	75 % … 100 %
		255	100 %
8	Amber		Same as CH 4 in the mode “RGBA” (p. 15)
9	Color Temperature	0–23	CTO Open: Open
		24	2400 K
		25	2500 K
		26	2600 K
		27	2700 K
		28	2800 K
		29	2900 K
		30	3000 K
		31	3100 K
		32	3200 K
		33	3300 K
		34	3400 K
		35	3500 K
		36	3600 K
		37	3700 K
		38	3800 K
		39	3900 K
		40	4000 K
		41	4100 K
		42	4200 K
		43	4300 K
		44	4400 K
		45	4500 K
		46	4600 K
		47	4700 K
		48	4800 K
		49	4900 K
		50	5000 K
		51	5100 K
		52	5200 K
		53	5300 K
		54	5400 K
		55	5500 K
		56	5600 K
		57	5700 K
		58	5800 K
		59	5900 K
		60	6000 K

CH	Function	DMX	Description
9	Color Temperature (continued)	61	6100 K
		62	6200 K
		63	6300 K
		64	6400 K
		65	6500 K
		66	6600 K
		67	6700 K
		68	6800 K
		69	6900 K
		70	7000 K
		71	7100 K
		72	7200 K
		73	7300 K
		74	7400 K
		75	7500 K
		76	7600 K
		77	7700 K
		78	7800 K
		79	7900 K
		80	8000 K
		81	8100 K
		82	8200 K
		83	8300 K
		84	8400 K
		85	CTO continuous: 8500 K
		86–255	CTO: 8500 K
10	Colors 2	0	Open
		1	Pale Yellow
		2	Straw
		3	Gold Tint
		4	Spring Yellow
		5	Medium Yellow0
		6	Yellow
		7	Deep Amber
		8	Deep Straw
		9	Loving Amber
		10	Gold Amber
		11	Orange
		12	Deep Orange
		13	Dark Amber
		14	Millennium Gold
		15	Deep Golden Amber

CH	Function	DMX	Description
10	Colors 2 (continued)	16	Scarlet
		17	Primary Red
		18	Bright Red
		19	Medium Red
		20	Fire
		21	Pink
		22	Medium Pink
		23	Dark Pink
		24	Bright Pink
		25	Bright Rose
		26	Special Rose Pink
		27	Vanity Fair
		28	Magenta
		29	Dark Magenta
		30	Rose Purple
		31	Mauve
		32	Medium Purple
		33	Lavender
		34	Palace blue
		35	Dark Blue
		36	Medium Blue
		37	Deep Blue
		38	Daylight Blue
		39	Slate Blue
		40	Light Blue
		41	Sky Blue
		42	Pale Navy Blue
		43	Marine Blue
		44	Peacock Blue
		45	Lagoon Blue
		46	Medium Blue Green
		47	Dark Yellow Green
		48	Primary Green
		49	Fern Green
		50	Moss Green
		51	Dark Green
		52	Lime Green
		53	Pale Green
		54	Quarter CT Blue
		55	Half CT Blue
		56	Full CT Blue
		57	Double CT Blue

CH	Function	DMX	Description
10	Colors 2 (continued)	58	Quarter CT Orange
		59	Half CT Orange
		60	Full CT Orange
		61–179	No Function
		180–201	CW fast to slow (7200–14 °/s)
		202–207	Color 1 Wheel Spin: Stop
		208–229	CCW slow to fast (14–7200 °/s)
		230–234	Open
		235–239	Color 2 Wheel Random: Fast
		240–244	Medium
		245–249	Color 2 Wheel Random: Slow
		250–255	Open
11	Effects	0–255	FX Selection 1 to 255
12	Effects Speed	0–126	Fast to Slow (5–1 Hz)
		127–128	Stop
		129–255	Slow to Fast (1–5 Hz)
13	Effects Adjust 1		RGB Effect Offset
		0	Idle
		1	Fixture Offset 10
		2	Fixture Offset 20
		3	Fixture Offset 30
		4	Fixture Offset 40
		5	Fixture Offset 50
		6	Fixture Offset 60
		7	Fixture Offset 70
		8	Fixture Offset 80
		9	Fixture Offset 90
		10	Fixture Offset 100
		11	Fixture Offset 110
		12	Fixture Offset 120
		13	Fixture Offset 130
		14	Fixture Offset 140
		15	Fixture Offset 150
		16	Fixture Offset 160
		17	Fixture Offset 170
		18	Fixture Offset 180
		19	Fixture Offset 190
		20	Fixture Offset 200
		21	Fixture Offset 210
		22	Fixture Offset 220
		23	Fixture Offset 230
		24	Fixture Offset 240

CH	Function	DMX	Description
13	Effects Adjust 1 (continued)	25	Fixture Offset 250
		26	Fixture Offset 260
		27	Fixture Offset 270
		28	Fixture Offset 280
		29	Fixture Offset 290
		30	Fixture Offset 300
		31	Fixture Offset 310
		32	Fixture Offset 320
		33	Fixture Offset 330
		34	Fixture Offset 340
		35	Fixture Offset 350
		36	Syncronized
		37–49	Random Fixture Offset
		50–59	Random Pixel Order
		60–69	Random Steps
		70–79	Idle
		80–89	Sinewave- Cross
		90–99	Sinewave- Full
		100–109	Sawtooth- Cross
		110–119	Sawtooth- Full
		120–129	Ramp Up
		130–139	Ramp Down
		140–149	Steps
		150–255	Idle
14	Function	0–9	Fan Mode: Idle
		10–14	Fan Mode Auto (Default)
		15–19	Fan Mode Mute
		20–24	Fan Mode Silent
		25–29	Fan Mode High
		30–49	Pixel Mode: Idle
		50–54	Default Pixel Order
		55–59	Flip Pixel Order
		60–64	Default Cell Layout
		65–69	Split Cell Layout
		70–99	Pixel Mode: Idle
		100	900
		101	910
		102	920
		103	930
		104	940
		105	950
		106	960

CH	Function	DMX	Description
14	Function (continued)	107	970
		108	980
		109	990
		110	1000
		111	1010
		112	1020
		113	1030
		114	1040
		115	1050
		116	1060
		117	1070
		118	1080
		119	1090
		120	1100
		121	1110
		122	1120
		123	1130
		124	1140
		125	1150
		126	1160
		127	1170
		128	1180
		129	1190
		130	1200
		131	1210
		132	1220
		133	1230
		134	1240
		135	1250
		136	1260
		137	1270
		138	1280
		139	1290
		140	1300
		141	1310
		142	1320
		143	1330
		144	1340
		145	1350
		146	1360
		147	1370
		148	1380

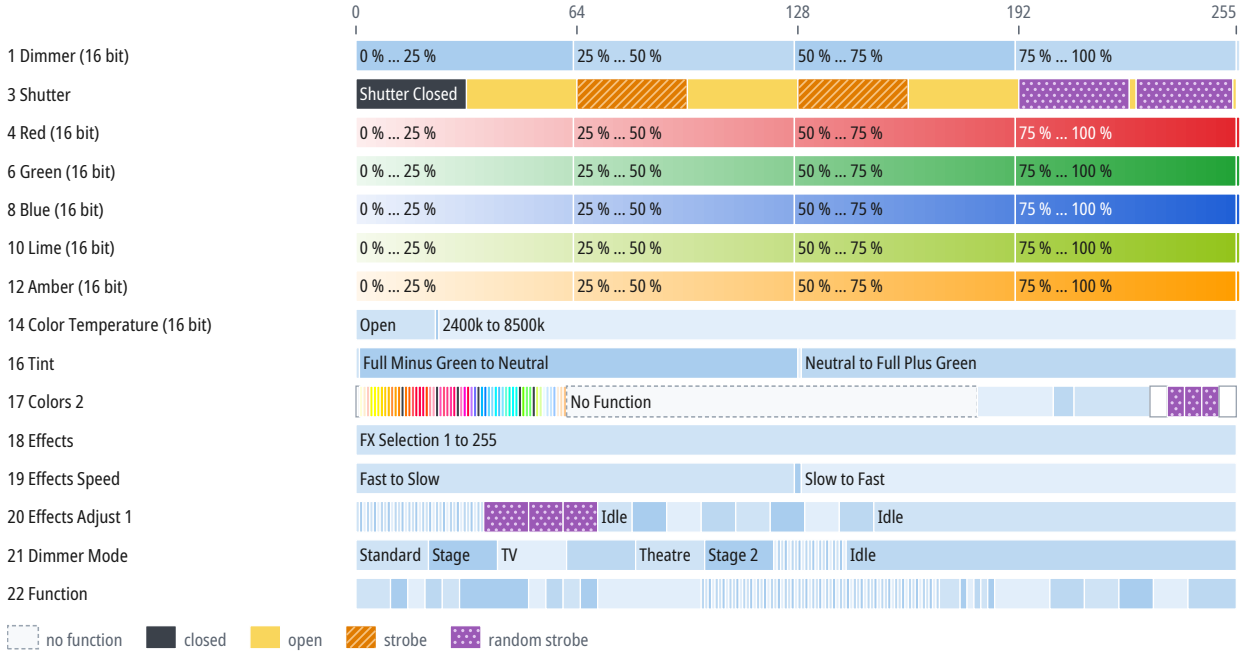
CH	Function	DMX	Description
14	Function (continued)	149	1390
		150	1400
		151	1410
		152	1420
		153	1430
		154	1440
		155	1450
		156	1460
		157	1470
		158	1480
		159	1490
		160	1500
		161	2500
		162	4000
		163	5000
		164	6000
		165	10000
		166	15000
		167	20000
		168	25000
		169–174	LEDFrequency: Idle
		175–176	Highest Fidelity
		177–178	Balanced Output and Fidelity
		179–180	Highest Output (Default)
		181–182	Bright (Highest Output) (Default)
		183–184	Uniform (Elation Full Spectrum Match)
		185–200	Color Tuning/Output Balance: Idle
		201–210	Dimmer Curve: Linear (Default)
		211–220	Dimmer Curve: Square
		221–230	Dimmer Curve: Inverse Square
		231–240	Dimmer Curve: S-Curve
		241–255	Dimmer Curve: Idle

Mode Extended 22ch

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Shutter 47, CH 4 Red 255, CH 6 Green 255, CH 8 Blue 255, CH 10 Lime 255, CH 12 Amber 255, CH 17 Colors 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Dimmer/ CCT 4CH” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter		Same as CH 3 in the mode “Standard 14ch” (p. 19)
4	Red		Same as CH 1 in the mode “RGBMA 10CH” (p. 18)
5	Red Fine	0–255	Fine adjustment of CH 4
6	Green		Same as CH 3 in the mode “RGBMA 10CH” (p. 18)
7	Green Fine	0–255	Fine adjustment of CH 6
8	Blue		Same as CH 5 in the mode “RGBMA 10CH” (p. 18)
9	Blue Fine	0–255	Fine adjustment of CH 8
10	Lime		Same as CH 7 in the mode “RGBMA 10CH” (p. 18)
11	Lime Fine	0–255	Fine adjustment of CH 10
12	Amber		Same as CH 9 in the mode “RGBMA 10CH” (p. 18)
13	Amber Fine	0–255	Fine adjustment of CH 12
14	Color Temperature	0–24	Open
		24–255	2400k to 8500k (2400–8500 K)
15	Color Temperature Fine	0–255	Fine adjustment of CH 14
16	Tint		Same as CH 4 in the mode “Dimmer/ CCT 4CH” (p. 16)
17	Colors 2	0	Open
		1	Pale Yellow
		2	Straw

CH	Function	DMX	Description
17	Colors 2 (continued)	3	Gold Tint
		4	Spring Yellow
		5	Medium Yellow
		6	Yellow
		7	Deep Amber
		8	Deep Straw
		9	Loving Amber
		10	Gold Amber
		11	Orange
		12	Deep Orange
		13	Dark Amber
		14	Millennium Gold
		15	Deep Golden Amber
		16	Scarlet
		17	Primary Red
		18	Bright Red
		19	Medium Red
		20	Fire
		21	Pink
		22	Medium Pink
		23	Dark Pink
		24	Bright Pink
		25	Bright Rose
		26	Special Rose Pink
		27	Vanity Fair
		28	Magenta
		29	Dark Magenta
		30	Rose Purple
		31	Mauve
		32	Medium Purple
		33	Lavender
		34	Palace blue
		35	Dark Blue
		36	Medium Blue
		37	Deep Blue
		38	Daylight Blue
		39	Slate Blue
		40	Light Blue
		41	Sky Blue
		42	Pale Navy Blue
		43	Marine Blue

CH	Function	DMX	Description
17	Colors 2 (continued)	44	Peacock Blue
		45	Lagoon Blue
		46	Medium Blue Green
		47	Dark Yellow Green
		48	Primary Green
		49	Fern Green
		50	Moss Green
		51	Dark Green
		52	Lime Green
		53	Pale Green
		54	Quarter CT Blue
		55	Half CT Blue
		56	Full CT Blue
		57	Double CT Blue
		58	Quarter CT Orange
		59	Half CT Orange
		60	Full CT Orange
		61–179	No Function
		180–201	CW fast to slow (7200–14 °/s)
		202–207	Color 1 Wheel Spin: Stop
		208–229	CCW slow to fast (14–7200 °/s)
		230–234	Open
		235–239	Color 2 Wheel Random: Fast
		240–244	Medium
		245–249	Color 2 Wheel Random: Slow
		250–255	Open
18	Effects	0–255	FX Selection 1 to 255
19	Effects Speed		Same as CH 12 in the mode “Standard 14ch” (p. 23)
20	Effects Adjust 1		Same as CH 13 in the mode “Standard 14ch” (p. 23)
21	Dimmer Mode	0–20	Standard
		21–40	Stage
		41–60	TV
		61–80	Architectural
		81–100	Theatre
		101–120	Stage 2
		121	0s
		122	0*1s
		123	0*2
		124	0*3s
		125	0*4s
		126	0*5s

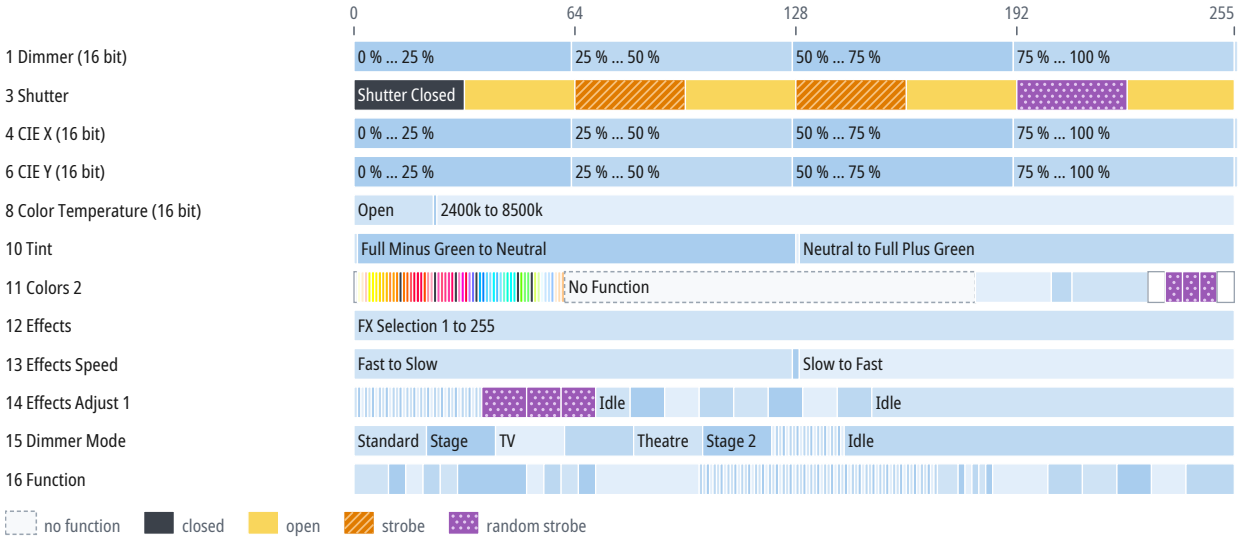
CH	Function	DMX	Description
21	Dimmer Mode (continued)	127	0*6s
		128	0*7
		129	0*8s
		130	0*9s
		131	1s
		132	1*5s
		133–141	2...10s
		142–255	Idle
22	Function		Same as CH 14 in the mode “Standard 14ch” (p. 24)

Mode xy Extended 16CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Shutter 47, CH 11 Colors 2 0.

Channel functions at a glance

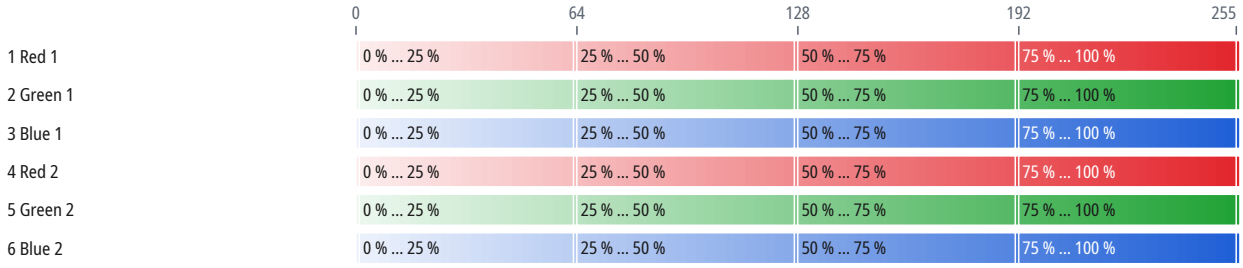


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Dimmer/ CCT 4CH” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter	0–31	Shutter Closed
		32–63	No Function (Shutter Open)
		64–95	Strobe Effect Slow to Fast (1–10 Hz)
		96–127	No Function (Shutter Open)
		128–159	Pulse-Effect in Sequences (1–10 Hz)
		160–191	No Function (Shutter Open)
		192–223	Random Strobe Effect Slow to Fast (1–10 Hz)
		224–255	No Function (Shutter Open)
4	CIE X		X Coordinate
		0–63	0 % ... 25 %
		63–127	25 % ... 50 %
		127–191	50 % ... 75 %
		191–255	75 % ... 100 %
		255	100 %
5	CIE X Fine	0–255	Fine adjustment of CH 4
6	CIE Y		Y Coordinate
		0–63	0 % ... 25 %
		63–127	25 % ... 50 %
		127–191	50 % ... 75 %
		191–255	75 % ... 100 %
		255	100 %
7	CIE Y Fine	0–255	Fine adjustment of CH 6
8	Color Temperature		Same as CH 14 in the mode “Extended 22ch” (p. 27)
9	Color Temperature Fine	0–255	Fine adjustment of CH 8
10	Tint		Same as CH 4 in the mode “Dimmer/ CCT 4CH” (p. 16)
11	Colors 2		Same as CH 17 in the mode “Extended 22ch” (p. 27)
12	Effects	0–255	FX Selection 1 to 255
13	Effects Speed		Same as CH 12 in the mode “Standard 14ch” (p. 23)
14	Effects Adjust 1		Same as CH 13 in the mode “Standard 14ch” (p. 23)
15	Dimmer Mode		Same as CH 21 in the mode “Extended 22ch” (p. 29)
16	Function		Same as CH 14 in the mode “Standard 14ch” (p. 24)

Mode RGB 2 Cell 6CH

The GDTF file gives these values for a console's Highlight function: CH 1 Red 1 255, CH 2 Green 1 255, CH 3 Blue 1 255, CH 4 Red 2 255, CH 5 Green 2 255, CH 6 Blue 2 255.

Channel functions at a glance



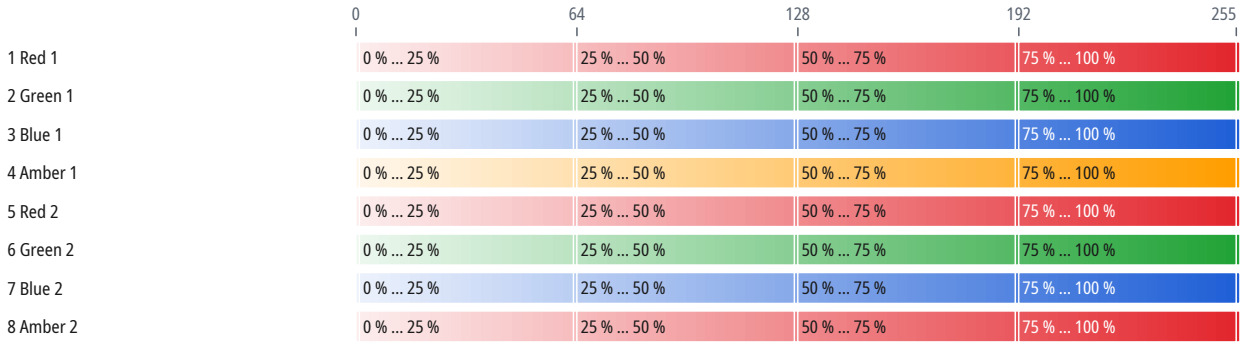
CH	Function	DMX	Description
1	Red 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
2	Green 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
3	Blue 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
4	Red 2	0	0 %
		1–62	0 % … 25 %
		63	25 %

CH	Function	DMX	Description
4	Red 2 (continued)	64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
5	Green 2	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
6	Blue 2	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

Mode RGBA 2 Cell 8CH

The GDTF file gives these values for a console's Highlight function: CH 1 Red 1 255, CH 2 Green 1 255, CH 3 Blue 1 255, CH 4 Amber 1 255, CH 5 Red 2 255, CH 6 Green 2 255, CH 7 Blue 2 255, CH 8 Amber 2 255.

Channel functions at a glance

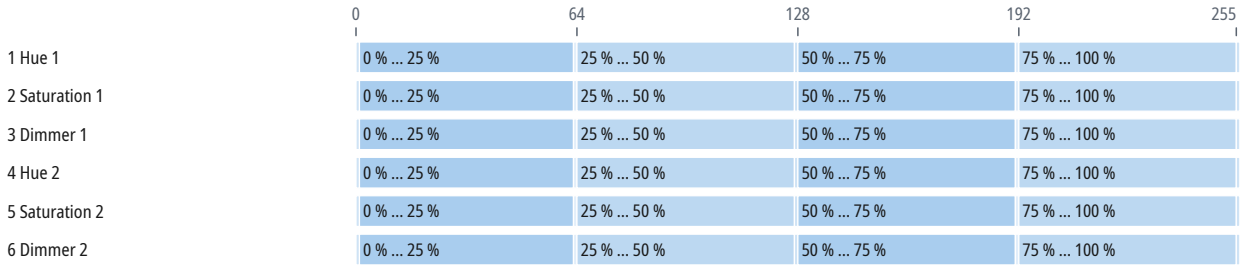


CH	Function	DMX	Description
1	Red 1		Same as CH 1 in the mode “RGB 2 Cell 6CH” (p. 32)
2	Green 1		Same as CH 2 in the mode “RGB 2 Cell 6CH” (p. 32)
3	Blue 1		Same as CH 3 in the mode “RGB 2 Cell 6CH” (p. 32)
4	Amber 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
5	Red 2		Same as CH 4 in the mode “RGB 2 Cell 6CH” (p. 32)
6	Green 2		Same as CH 5 in the mode “RGB 2 Cell 6CH” (p. 33)
7	Blue 2		Same as CH 6 in the mode “RGB 2 Cell 6CH” (p. 33)
8	Amber 2	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

Mode HSI 2 Cell 6CH

The GDTF file gives these values for a console's Highlight function: CH 3 Dimmer 1 255, CH 6 Dimmer 2 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Hue 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
2	Saturation 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
3	Dimmer 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
4	Hue 2	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
5	Saturation 2	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %

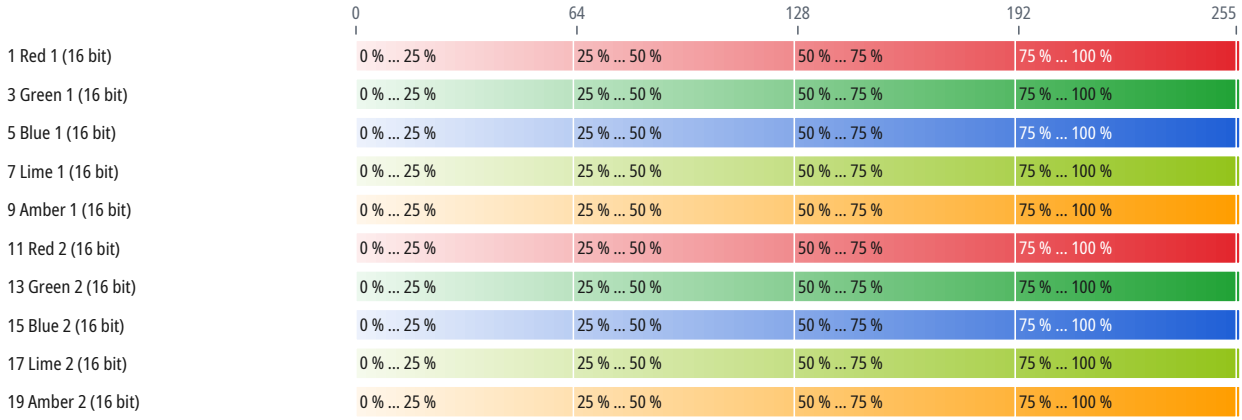
CH	Function	DMX	Description
5	Saturation 2 (continued)	127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
6	Dimmer 2	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

Mode RGBMA 2 Cell 20CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Red 1 255, CH 3 Green 1 255, CH 5 Blue 1 255, CH 7 Lime 1 255, CH 9 Amber 1 255, CH 11 Red 2 255, CH 13 Green 2 255, CH 15 Blue 2 255, CH 17 Lime 2 255, CH 19 Amber 2 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Red 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
2	Red 1 Fine	0–255	Fine adjustment of CH 1
3	Green 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %

CH	Function	DMX	Description
3	Green 1 (continued)	191–255	75 % … 100 %
		255	100 %
4	Green 1 Fine	0–255	Fine adjustment of CH 3
5	Blue 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
6	Blue 1 Fine	0–255	Fine adjustment of CH 5
7	Lime 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
8	Lime 1 Fine	0–255	Fine adjustment of CH 7
9	Amber 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
10	Amber 1 Fine	0–255	Fine adjustment of CH 9
11	Red 2	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
12	Red 2 Fine	0–255	Fine adjustment of CH 11
13	Green 2	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
14	Green 2 Fine	0–255	Fine adjustment of CH 13
15	Blue 2	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
16	Blue 2 Fine	0–255	Fine adjustment of CH 15
17	Lime 2	0–63	0 % … 25 %
		63–127	25 % … 50 %

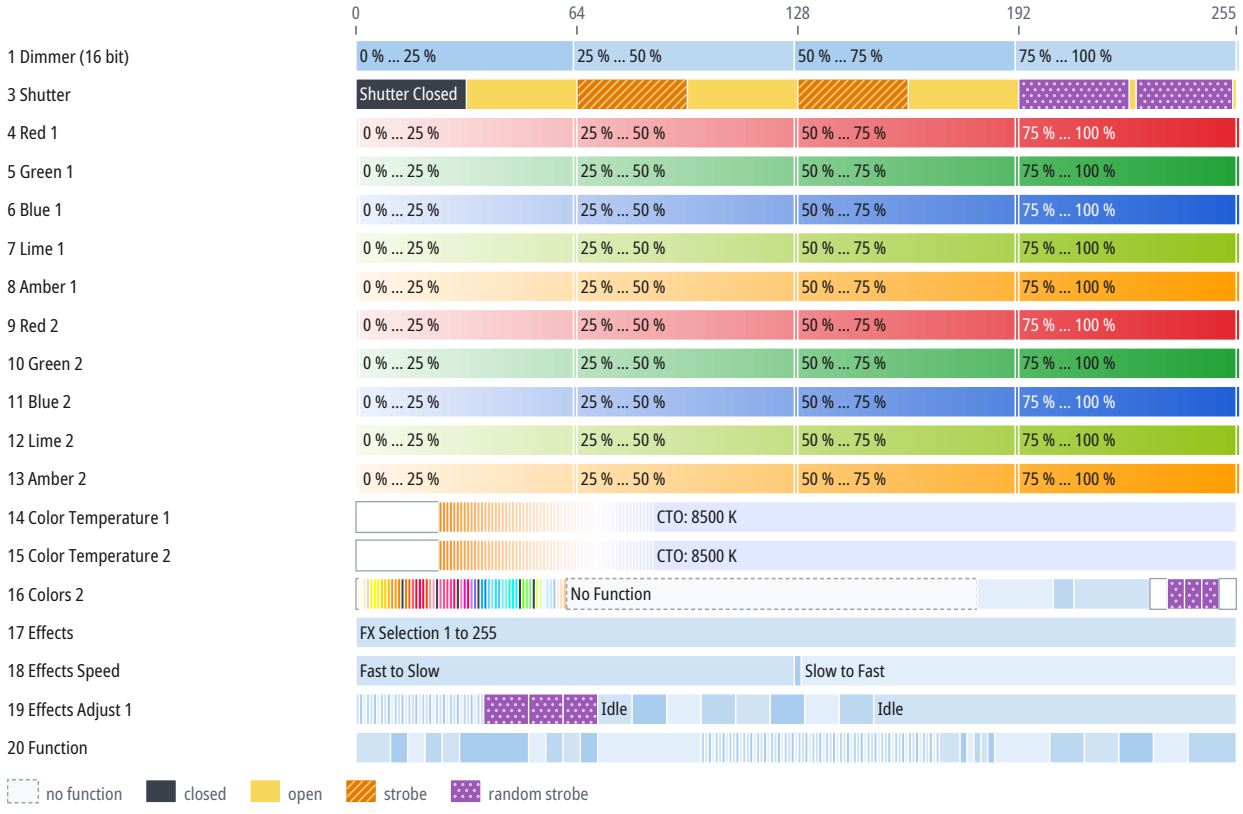
CH	Function	DMX	Description
17	Lime 2 (continued)	127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
18	Lime 2 Fine	0–255	Fine adjustment of CH 17
19	Amber 2	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
20	Amber 2 Fine	0–255	Fine adjustment of CH 19

Mode Standard 2 Cell 20CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Shutter 47, CH 4 Red 1 255, CH 5 Green 1 255, CH 6 Blue 1 255, CH 7 Lime 1 255, CH 8 Amber 1 255, CH 9 Red 2 255, CH 10 Green 2 255, CH 11 Blue 2 255, CH 12 Lime 2 255, CH 13 Amber 2 255, CH 14 Color Temperature 1 0, CH 15 Color Temperature 2 0, CH 16 Colors 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Dimmer/ CCT 4CH” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter		Same as CH 3 in the mode “Standard 14ch” (p. 19)

CH	Function	DMX	Description
4	Red 1		Same as CH 1 in the mode “RGB 2 Cell 6CH” (p. 32)
5	Green 1		Same as CH 2 in the mode “RGB 2 Cell 6CH” (p. 32)
6	Blue 1		Same as CH 3 in the mode “RGB 2 Cell 6CH” (p. 32)
7	Lime 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
8	Amber 1		Same as CH 4 in the mode “RGBA 2 Cell 8CH” (p. 34)
9	Red 2		Same as CH 4 in the mode “RGB 2 Cell 6CH” (p. 32)
10	Green 2		Same as CH 5 in the mode “RGB 2 Cell 6CH” (p. 33)
11	Blue 2		Same as CH 6 in the mode “RGB 2 Cell 6CH” (p. 33)
12	Lime 2	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
13	Amber 2		Same as CH 8 in the mode “RGBA 2 Cell 8CH” (p. 34)
14	Color Temperature 1	0–23	CTO Open: Open
		24	2400 K
		25	2500 K
		26	2600 K
		27	2700 K
		28	2800 K
		29	2900 K
		30	3000 K
		31	3100 K
		32	3200 K
		33	3300 K
		34	3400 K
		35	3500 K
		36	3600 K
		37	3700 K

CH	Function	DMX	Description
14	Color Temperature 1 (continued)	38	3800 K
		39	3900 K
		40	4000 K
		41	4100 K
		42	4200 K
		43	4300 K
		44	4400 K
		45	4500 K
		46	4600 K
		47	4700 K
		48	4800 K
		49	4900 K
		50	5000 K
		51	5100 K
		52	5200 K
		53	5300 K
		54	5400 K
		55	5500 K
		56	5600 K
		57	5700 K
		58	5800 K
		59	5900 K
		60	6000 K
		61	6100 K
		62	6200 K
		63	6300 K
		64	6400 K
		65	6500 K
		66	6600 K
		67	6700 K
		68	6800 K
		69	6900 K
		70	7000 K
		71	7100 K
		72	7200 K
		73	7300 K
		74	7400 K
		75	7500 K
		76	7600 K
		77	7700 K
		78	7800 K

CH	Function	DMX	Description
14	Color Temperature 1 (continued)	79	7900 K
		80	8000 K
		81	8100 K
		82	8200 K
		83	8300 K
		84	8400 K
		85	CTO continuous: 8500 K
		86–255	CTO: 8500 K
15	Color Temperature 2	0–23	CTO Open: Open
		24	2400 K
		25	2500 K
		26	2600 K
		27	2700 K
		28	2800 K
		29	2900 K
		30	3000 K
		31	3100 K
		32	3200 K
		33	3300 K
		34	3400 K
		35	3500 K
		36	3600 K
		37	3700 K
		38	3800 K
		39	3900 K
		40	4000 K
		41	4100 K
		42	4200 K
		43	4300 K
		44	4400 K
		45	4500 K
		46	4600 K
		47	4700 K
		48	4800 K
		49	4900 K
		50	5000 K
		51	5100 K
		52	5200 K
		53	5300 K
		54	5400 K
		55	5500 K

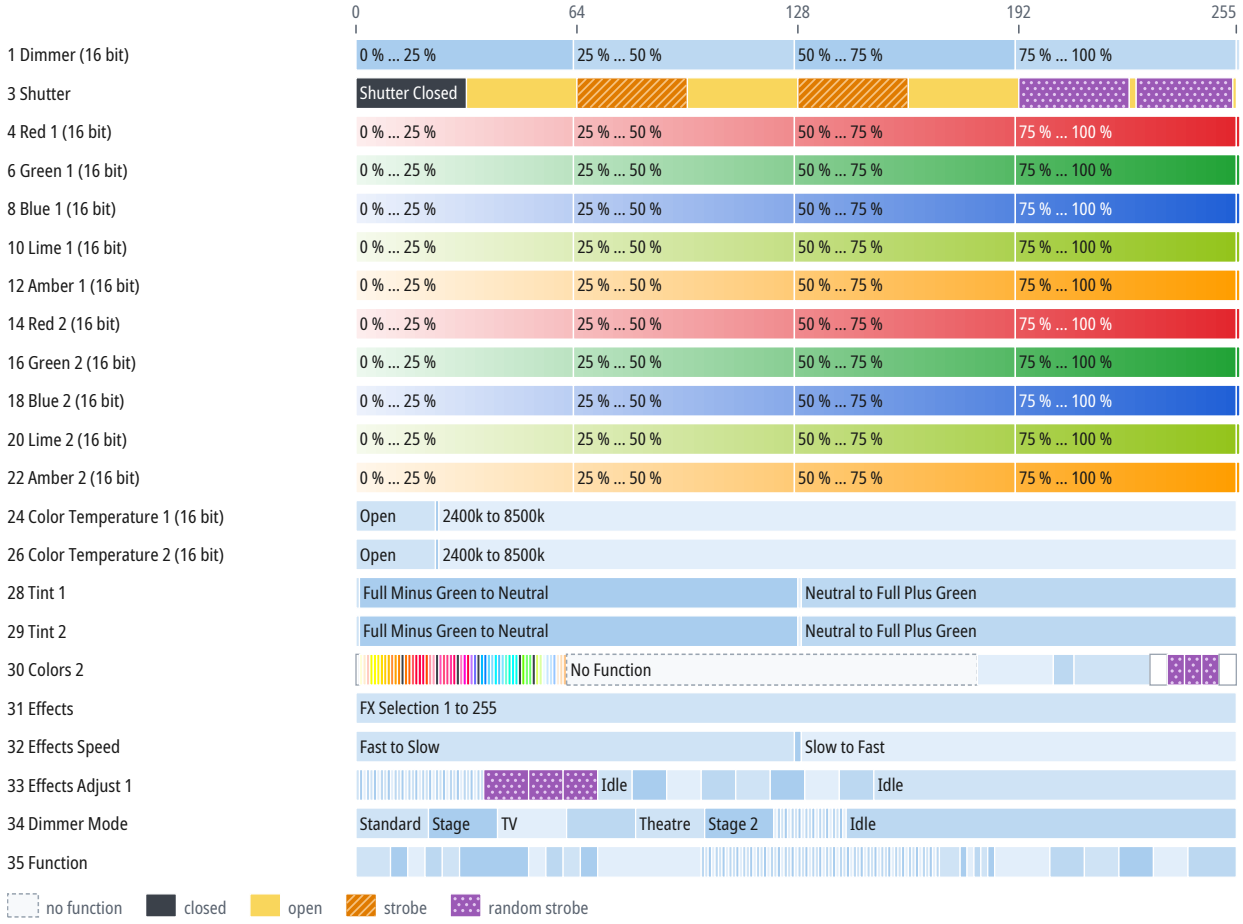
CH	Function	DMX	Description
15	Color Temperature 2 (continued)	56	5600 K
		57	5700 K
		58	5800 K
		59	5900 K
		60	6000 K
		61	6100 K
		62	6200 K
		63	6300 K
		64	6400 K
		65	6500 K
		66	6600 K
		67	6700 K
		68	6800 K
		69	6900 K
		70	7000 K
		71	7100 K
		72	7200 K
		73	7300 K
		74	7400 K
		75	7500 K
		76	7600 K
		77	7700 K
		78	7800 K
		79	7900 K
		80	8000 K
		81	8100 K
		82	8200 K
		83	8300 K
		84	8400 K
		85	CTO continuous: 8500 K
		86–255	CTO: 8500 K
16	Colors 2		Same as CH 17 in the mode “Extended 22ch” (p. 27)
17	Effects	0–255	FX Selection 1 to 255
18	Effects Speed		Same as CH 12 in the mode “Standard 14ch” (p. 23)
19	Effects Adjust 1		Same as CH 13 in the mode “Standard 14ch” (p. 23)
20	Function		Same as CH 14 in the mode “Standard 14ch” (p. 24)

Mode Extended 2 Cell 35CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Shutter 47, CH 4 Red 1 255, CH 6 Green 1 255, CH 8 Blue 1 255, CH 10 Lime 1 255, CH 12 Amber 1 255, CH 14 Red 2 255, CH 16 Green 2 255, CH 18 Blue 2 255, CH 20 Lime 2 255, CH 22 Amber 2 255, CH 30 Colors 2 0.

Channel functions at a glance



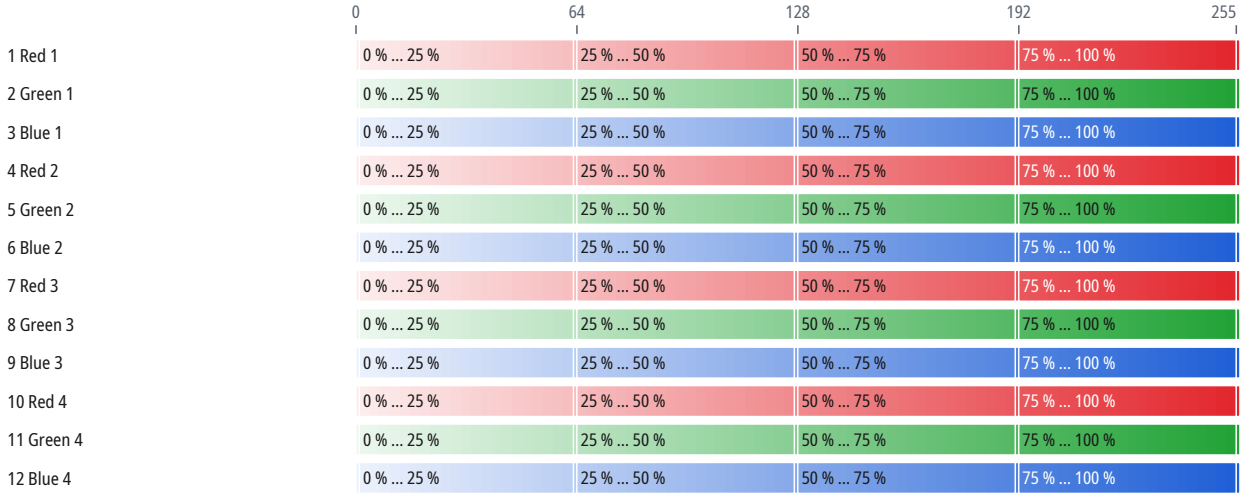
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Dimmer/ CCT 4CH” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter		Same as CH 3 in the mode “Standard 14ch” (p. 19)
4	Red 1		Same as CH 1 in the mode “RGBMA 2 Cell 20CH” (p. 36)
5	Red 1 Fine	0–255	Fine adjustment of CH 4
6	Green 1		Same as CH 3 in the mode “RGBMA 2 Cell 20CH” (p. 36)
7	Green 1 Fine	0–255	Fine adjustment of CH 6
8	Blue 1		Same as CH 5 in the mode “RGBMA 2 Cell 20CH” (p. 37)
9	Blue 1 Fine	0–255	Fine adjustment of CH 8
10	Lime 1		Same as CH 7 in the mode “RGBMA 2 Cell 20CH” (p. 37)
11	Lime 1 Fine	0–255	Fine adjustment of CH 10
12	Amber 1		Same as CH 9 in the mode “RGBMA 2 Cell 20CH” (p. 37)
13	Amber 1 Fine	0–255	Fine adjustment of CH 12

CH	Function	DMX	Description
14	Red 2		Same as CH 11 in the mode “RGBMA 2 Cell 20CH” (p. 37)
15	Red 2 Fine	0–255	Fine adjustment of CH 14
16	Green 2		Same as CH 13 in the mode “RGBMA 2 Cell 20CH” (p. 37)
17	Green 2 Fine	0–255	Fine adjustment of CH 16
18	Blue 2		Same as CH 15 in the mode “RGBMA 2 Cell 20CH” (p. 37)
19	Blue 2 Fine	0–255	Fine adjustment of CH 18
20	Lime 2		Same as CH 17 in the mode “RGBMA 2 Cell 20CH” (p. 37)
21	Lime 2 Fine	0–255	Fine adjustment of CH 20
22	Amber 2		Same as CH 19 in the mode “RGBMA 2 Cell 20CH” (p. 38)
23	Amber 2 Fine	0–255	Fine adjustment of CH 22
24	Color Temperature 1	0–24	Open
		24–255	2400k to 8500k (2400–8500 K)
25	Color Temperature 1 Fine	0–255	Fine adjustment of CH 24
26	Color Temperature 2	0–24	Open
		24–255	2400k to 8500k (2400–8500 K)
27	Color Temperature 2 Fine	0–255	Fine adjustment of CH 26
28	Tint 1	0	Idle
		1–127	Full Minus Green to Neutral
		128	Neutral White
		129–255	Neutral to Full Plus Green
29	Tint 2	0	Idle
		1–127	Full Minus Green to Neutral
		128	Neutral White
		129–255	Neutral to Full Plus Green
30	Colors 2		Same as CH 17 in the mode “Extended 22ch” (p. 27)
31	Effects	0–255	FX Selection 1 to 255
32	Effects Speed		Same as CH 12 in the mode “Standard 14ch” (p. 23)
33	Effects Adjust 1		Same as CH 13 in the mode “Standard 14ch” (p. 23)
34	Dimmer Mode		Same as CH 21 in the mode “Extended 22ch” (p. 29)
35	Function		Same as CH 14 in the mode “Standard 14ch” (p. 24)

Mode RGB 4 Cell 12CH

The GDTF file gives these values for a console's Highlight function: CH 1 Red 1 255, CH 2 Green 1 255, CH 3 Blue 1 255, CH 4 Red 2 255, CH 5 Green 2 255, CH 6 Blue 2 255, CH 7 Red 3 255, CH 8 Green 3 255, CH 9 Blue 3 255, CH 10 Red 4 255, CH 11 Green 4 255, CH 12 Blue 4 255.

Channel functions at a glance



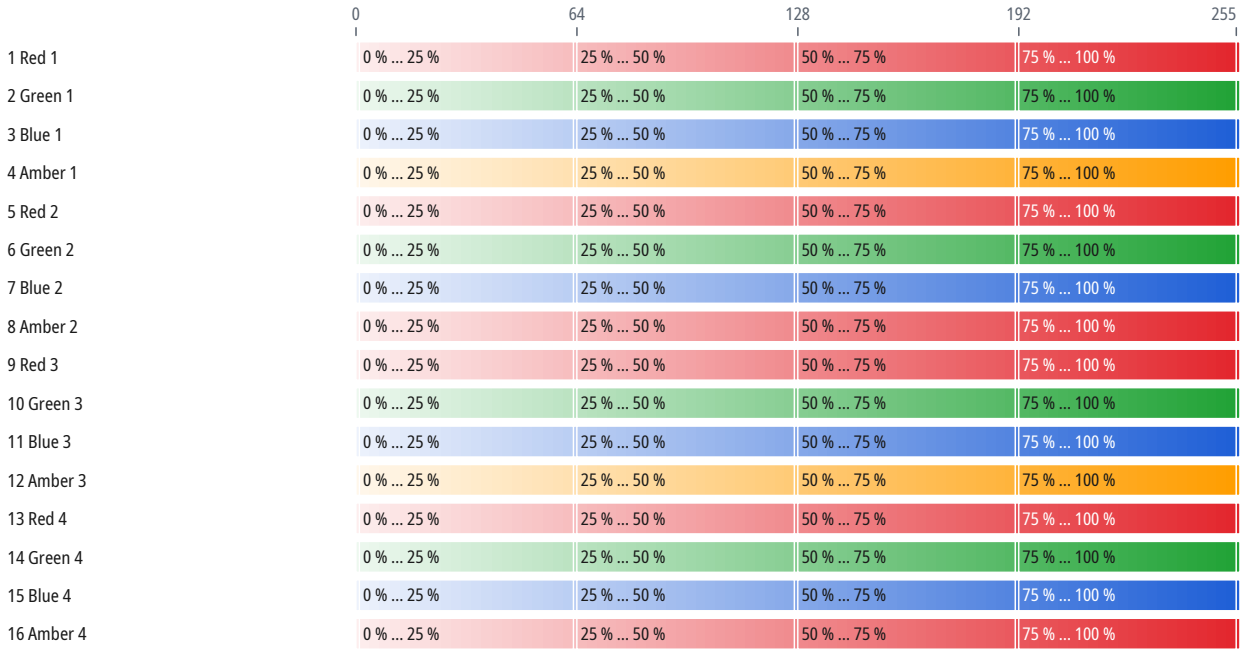
CH	Function	DMX	Description
1	Red 1		Same as CH 1 in the mode “RGB 2 Cell 6CH” (p. 32)
2	Green 1		Same as CH 2 in the mode “RGB 2 Cell 6CH” (p. 32)
3	Blue 1		Same as CH 3 in the mode “RGB 2 Cell 6CH” (p. 32)
4	Red 2		Same as CH 4 in the mode “RGB 2 Cell 6CH” (p. 32)
5	Green 2		Same as CH 5 in the mode “RGB 2 Cell 6CH” (p. 33)
6	Blue 2		Same as CH 6 in the mode “RGB 2 Cell 6CH” (p. 33)
7	Red 3	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
8	Green 3	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

CH	Function	DMX	Description
9	Blue 3	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
10	Red 4	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
11	Green 4	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
12	Blue 4	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

Mode RGBA 4 Cell 16CH

The GDTF file gives these values for a console's Highlight function: CH 1 Red 1 255, CH 2 Green 1 255, CH 3 Blue 1 255, CH 4 Amber 1 255, CH 5 Red 2 255, CH 6 Green 2 255, CH 7 Blue 2 255, CH 8 Amber 2 255, CH 9 Red 3 255, CH 10 Green 3 255, CH 11 Blue 3 255, CH 12 Amber 3 255, CH 13 Red 4 255, CH 14 Green 4 255, CH 15 Blue 4 255, CH 16 Amber 4 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Red 1		Same as CH 1 in the mode “RGB 2 Cell 6CH” (p. 32)
2	Green 1		Same as CH 2 in the mode “RGB 2 Cell 6CH” (p. 32)
3	Blue 1		Same as CH 3 in the mode “RGB 2 Cell 6CH” (p. 32)
4	Amber 1		Same as CH 4 in the mode “RGBA 2 Cell 8CH” (p. 34)
5	Red 2		Same as CH 4 in the mode “RGB 2 Cell 6CH” (p. 32)
6	Green 2		Same as CH 5 in the mode “RGB 2 Cell 6CH” (p. 33)
7	Blue 2		Same as CH 6 in the mode “RGB 2 Cell 6CH” (p. 33)
8	Amber 2		Same as CH 8 in the mode “RGBA 2 Cell 8CH” (p. 34)
9	Red 3		Same as CH 7 in the mode “RGB 4 Cell 12CH” (p. 45)
10	Green 3		Same as CH 8 in the mode “RGB 4 Cell 12CH” (p. 45)
11	Blue 3		Same as CH 9 in the mode “RGB 4 Cell 12CH” (p. 46)
12	Amber 3	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %

CH	Function	DMX	Description
12	Amber 3 (continued)	255	100 %
13	Red 4		Same as CH 10 in the mode “RGB 4 Cell 12CH” (p. 46)
14	Green 4		Same as CH 11 in the mode “RGB 4 Cell 12CH” (p. 46)
15	Blue 4		Same as CH 12 in the mode “RGB 4 Cell 12CH” (p. 46)
16	Amber 4	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

Mode HSI 4 Cell 12CH

The GDTF file gives these values for a console's Highlight function: CH 3 Dimmer 1 255, CH 6 Dimmer 2 255, CH 9 Dimmer 3 255, CH 12 Dimmer 4 255.

Channel functions at a glance

	0	64	128	192	255
1 Hue 1	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	
2 Saturation 1	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	
3 Dimmer 1	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	
4 Hue 2	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	
5 Saturation 2	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	
6 Dimmer 2	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	
7 Hue 3	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	
8 Saturation 3	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	
9 Dimmer 3	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	
10 Hue 4	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	
11 Saturation 4	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	
12 Dimmer 4	0 % … 25 %	25 % … 50 %	50 % … 75 %	75 % … 100 %	

CH	Function	DMX	Description
1	Hue 1		Same as CH 1 in the mode “HSI 2 Cell 6CH” (p. 35)
2	Saturation 1		Same as CH 2 in the mode “HSI 2 Cell 6CH” (p. 35)
3	Dimmer 1		Same as CH 3 in the mode “HSI 2 Cell 6CH” (p. 35)
4	Hue 2		Same as CH 4 in the mode “HSI 2 Cell 6CH” (p. 35)
5	Saturation 2		Same as CH 5 in the mode “HSI 2 Cell 6CH” (p. 35)
6	Dimmer 2		Same as CH 6 in the mode “HSI 2 Cell 6CH” (p. 36)
7	Hue 3	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %

CH	Function	DMX	Description
7	Hue 3 (continued)	127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
8	Saturation 3	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
9	Dimmer 3	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
10	Hue 4	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
11	Saturation 4	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
12	Dimmer 4	0	0 %

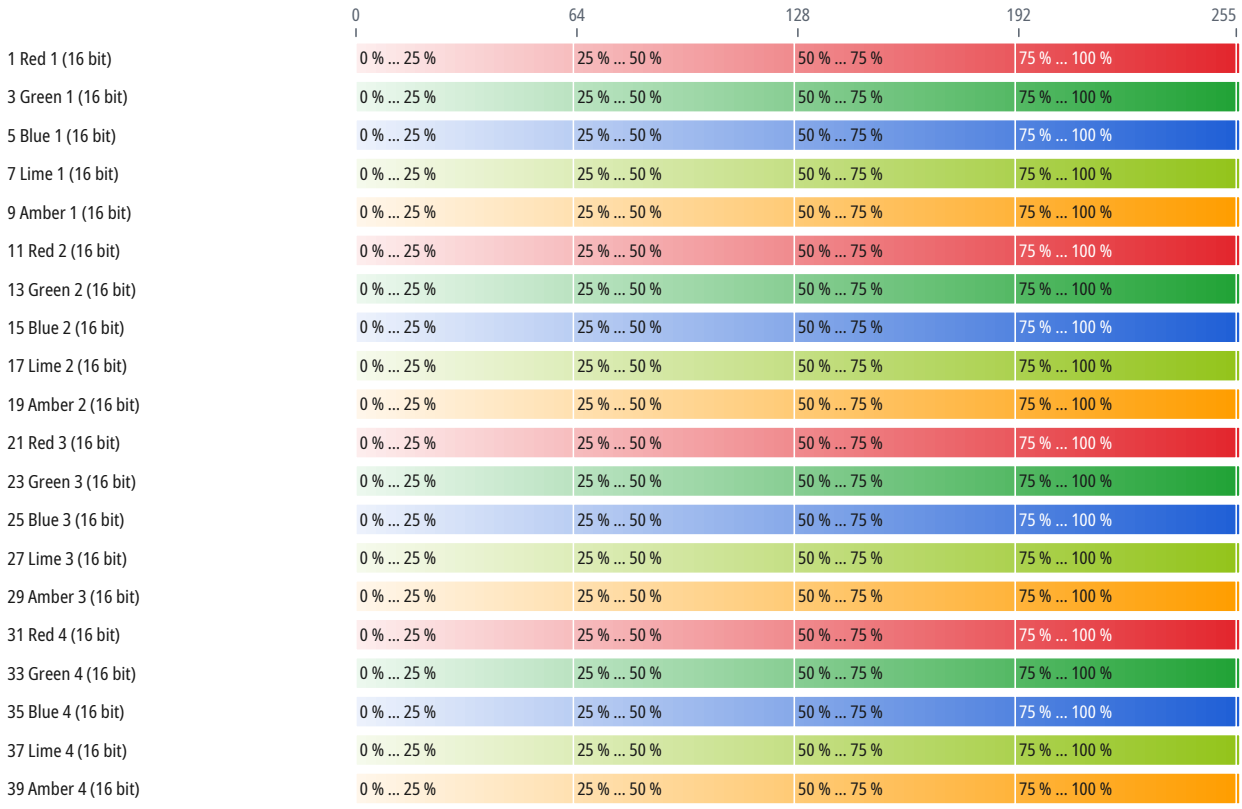
CH	Function	DMX	Description
12	Dimmer 4 (continued)	1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

Mode RGBMA 4 Cell 40CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Red 1 255, CH 3 Green 1 255, CH 5 Blue 1 255, CH 7 Lime 1 255, CH 9 Amber 1 255, CH 11 Red 2 255, CH 13 Green 2 255, CH 15 Blue 2 255, CH 17 Lime 2 255, CH 19 Amber 2 255, CH 21 Red 3 255, CH 23 Green 3 255, CH 25 Blue 3 255, CH 27 Lime 3 255, CH 29 Amber 3 255, CH 31 Red 4 255, CH 33 Green 4 255, CH 35 Blue 4 255, CH 37 Lime 4 255, CH 39 Amber 4 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Red 1		Same as CH 1 in the mode “RGBMA 2 Cell 20CH” (p. 36)
2	Red 1 Fine	0–255	Fine adjustment of CH 1
3	Green 1		Same as CH 3 in the mode “RGBMA 2 Cell 20CH” (p. 36)
4	Green 1 Fine	0–255	Fine adjustment of CH 3
5	Blue 1		Same as CH 5 in the mode “RGBMA 2 Cell 20CH” (p. 37)

CH	Function	DMX	Description
6	Blue 1 Fine	0–255	Fine adjustment of CH 5
7	Lime 1		Same as CH 7 in the mode “RGBMA 2 Cell 20CH” (p. 37)
8	Lime 1 Fine	0–255	Fine adjustment of CH 7
9	Amber 1		Same as CH 9 in the mode “RGBMA 2 Cell 20CH” (p. 37)
10	Amber 1 Fine	0–255	Fine adjustment of CH 9
11	Red 2		Same as CH 11 in the mode “RGBMA 2 Cell 20CH” (p. 37)
12	Red 2 Fine	0–255	Fine adjustment of CH 11
13	Green 2		Same as CH 13 in the mode “RGBMA 2 Cell 20CH” (p. 37)
14	Green 2 Fine	0–255	Fine adjustment of CH 13
15	Blue 2		Same as CH 15 in the mode “RGBMA 2 Cell 20CH” (p. 37)
16	Blue 2 Fine	0–255	Fine adjustment of CH 15
17	Lime 2		Same as CH 17 in the mode “RGBMA 2 Cell 20CH” (p. 37)
18	Lime 2 Fine	0–255	Fine adjustment of CH 17
19	Amber 2		Same as CH 19 in the mode “RGBMA 2 Cell 20CH” (p. 38)
20	Amber 2 Fine	0–255	Fine adjustment of CH 19
21	Red 3	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
22	Red 3 Fine	0–255	Fine adjustment of CH 21
23	Green 3	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
24	Green 3 Fine	0–255	Fine adjustment of CH 23
25	Blue 3	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
26	Blue 3 Fine	0–255	Fine adjustment of CH 25
27	Lime 3	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
28	Lime 3 Fine	0–255	Fine adjustment of CH 27
29	Amber 3	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %

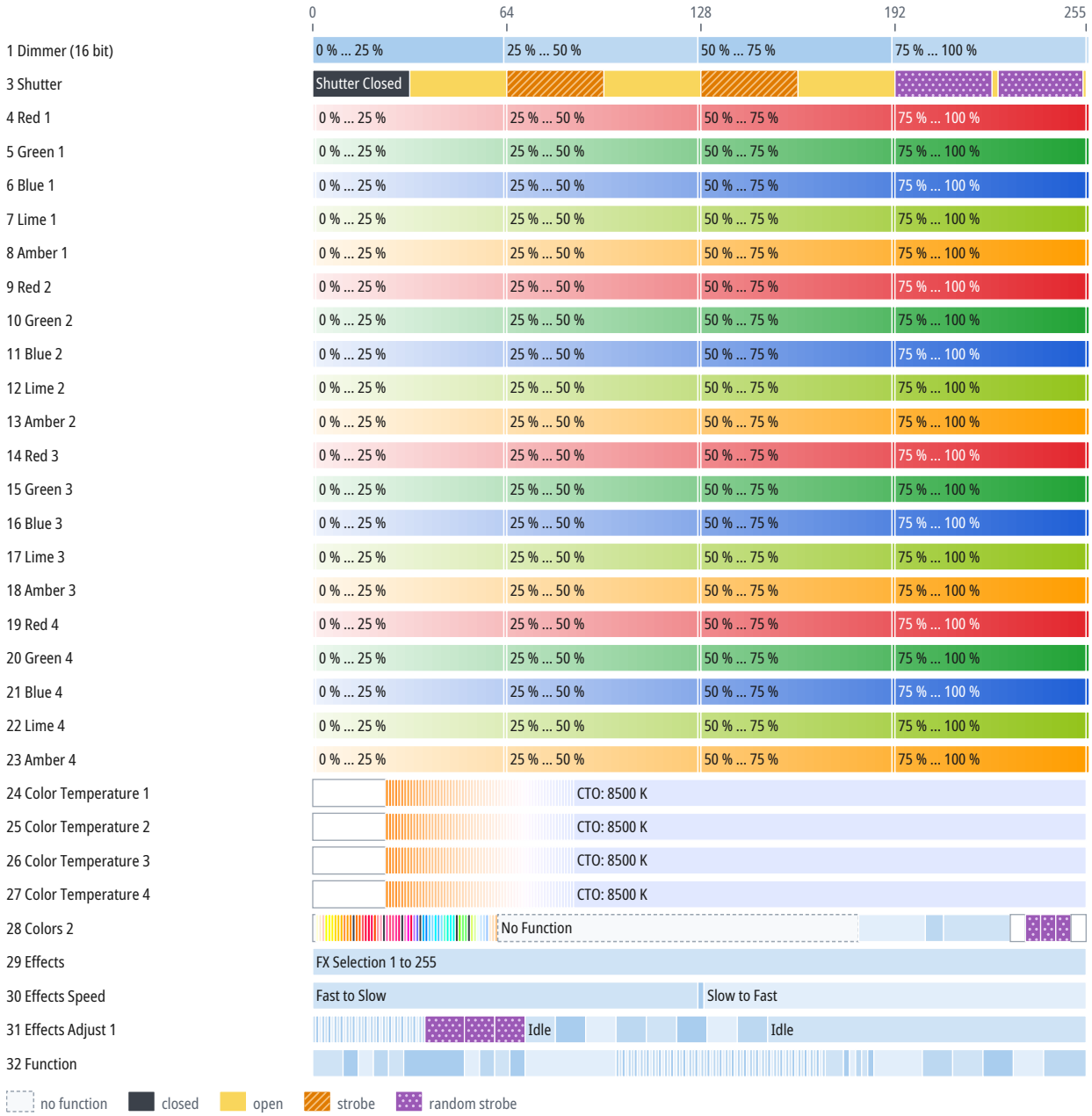
CH	Function	DMX	Description
29	Amber 3 (continued)	191–255	75 % … 100 %
		255	100 %
30	Amber 3 Fine	0–255	Fine adjustment of CH 29
31	Red 4	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
32	Red 4 Fine	0–255	Fine adjustment of CH 31
33	Green 4	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
34	Green 4 Fine	0–255	Fine adjustment of CH 33
35	Blue 4	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
36	Blue 4 Fine	0–255	Fine adjustment of CH 35
37	Lime 4	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
38	Lime 4 Fine	0–255	Fine adjustment of CH 37
39	Amber 4	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
40	Amber 4 Fine	0–255	Fine adjustment of CH 39

Mode Standard 4 Cell 32CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Shutter 47, CH 4 Red 1 255, CH 5 Green 1 255, CH 6 Blue 1 255, CH 7 Lime 1 255, CH 8 Amber 1 255, CH 9 Red 2 255, CH 10 Green 2 255, CH 11 Blue 2 255, CH 12 Lime 2 255, CH 13 Amber 2 255, CH 14 Red 3 255, CH 15 Green 3 255, CH 16 Blue 3 255, CH 17 Lime 3 255, CH 18 Amber 3 255, CH 19 Red 4 255, CH 20 Green 4 255, CH 21 Blue 4 255, CH 22 Lime 4 255, CH 23 Amber 4 255, CH 24 Color Temperature 1 0, CH 25 Color Temperature 2 0, CH 26 Color Temperature 3 0, CH 27 Color Temperature 4 0, CH 28 Colors 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Dimmer/ CCT 4CH” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter		Same as CH 3 in the mode “Standard 14ch” (p. 19)
4	Red 1		Same as CH 1 in the mode “RGB 2 Cell 6CH” (p. 32)
5	Green 1		Same as CH 2 in the mode “RGB 2 Cell 6CH” (p. 32)
6	Blue 1		Same as CH 3 in the mode “RGB 2 Cell 6CH” (p. 32)
7	Lime 1		Same as CH 7 in the mode “Standard 2 Cell 20CH” (p. 39)
8	Amber 1		Same as CH 4 in the mode “RGBA 2 Cell 8CH” (p. 34)
9	Red 2		Same as CH 4 in the mode “RGB 2 Cell 6CH” (p. 32)
10	Green 2		Same as CH 5 in the mode “RGB 2 Cell 6CH” (p. 33)
11	Blue 2		Same as CH 6 in the mode “RGB 2 Cell 6CH” (p. 33)
12	Lime 2		Same as CH 12 in the mode “Standard 2 Cell 20CH” (p. 39)
13	Amber 2		Same as CH 8 in the mode “RGBA 2 Cell 8CH” (p. 34)
14	Red 3		Same as CH 7 in the mode “RGB 4 Cell 12CH” (p. 45)
15	Green 3		Same as CH 8 in the mode “RGB 4 Cell 12CH” (p. 45)
16	Blue 3		Same as CH 9 in the mode “RGB 4 Cell 12CH” (p. 46)
17	Lime 3	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
18	Amber 3		Same as CH 12 in the mode “RGBA 4 Cell 16CH” (p. 47)
19	Red 4		Same as CH 10 in the mode “RGB 4 Cell 12CH” (p. 46)
20	Green 4		Same as CH 11 in the mode “RGB 4 Cell 12CH” (p. 46)
21	Blue 4		Same as CH 12 in the mode “RGB 4 Cell 12CH” (p. 46)
22	Lime 4	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
23	Amber 4		Same as CH 16 in the mode “RGBA 4 Cell 16CH” (p. 48)
24	Color Temperature 1		Same as CH 14 in the mode “Standard 2 Cell 20CH” (p. 39)

CH	Function	DMX	Description
25	Color Temperature 2		Same as CH 15 in the mode “Standard 2 Cell 20CH” (p. 41)
26	Color Temperature 3	0–23	CTO Open: Open
		24	2400 K
		25	2500 K
		26	2600 K
		27	2700 K
		28	2800 K
		29	2900 K
		30	3000 K
		31	3100 K
		32	3200 K
		33	3300 K
		34	3400 K
		35	3500 K
		36	3600 K
		37	3700 K
		38	3800 K
		39	3900 K
		40	4000 K
		41	4100 K
		42	4200 K
		43	4300 K
		44	4400 K
		45	4500 K
		46	4600 K
		47	4700 K
		48	4800 K
		49	4900 K
		50	5000 K
		51	5100 K
		52	5200 K
		53	5300 K
		54	5400 K
		55	5500 K
		56	5600 K
		57	5700 K
		58	5800 K
		59	5900 K
		60	6000 K
		61	6100 K
		62	6200 K

CH	Function	DMX	Description
26	Color Temperature 3 (continued)	63	6300 K
		64	6400 K
		65	6500 K
		66	6600 K
		67	6700 K
		68	6800 K
		69	6900 K
		70	7000 K
		71	7100 K
		72	7200 K
		73	7300 K
		74	7400 K
		75	7500 K
		76	7600 K
		77	7700 K
		78	7800 K
		79	7900 K
		80	8000 K
		81	8100 K
		82	8200 K
		83	8300 K
		84	8400 K
		85	CTO continuous: 8500 K
		86–255	CTO: 8500 K
27	Color Temperature 4	0–23	CTO Open: Open
		24	2400 K
		25	2500 K
		26	2600 K
		27	2700 K
		28	2800 K
		29	2900 K
		30	3000 K
		31	3100 K
		32	3200 K
		33	3300 K
		34	3400 K
		35	3500 K
		36	3600 K
		37	3700 K
		38	3800 K
		39	3900 K

CH	Function	DMX	Description
27	Color Temperature 4 (continued)	40	4000 K
		41	4100 K
		42	4200 K
		43	4300 K
		44	4400 K
		45	4500 K
		46	4600 K
		47	4700 K
		48	4800 K
		49	4900 K
		50	5000 K
		51	5100 K
		52	5200 K
		53	5300 K
		54	5400 K
		55	5500 K
		56	5600 K
		57	5700 K
		58	5800 K
		59	5900 K
		60	6000 K
		61	6100 K
		62	6200 K
		63	6300 K
		64	6400 K
		65	6500 K
		66	6600 K
		67	6700 K
		68	6800 K
		69	6900 K
		70	7000 K
		71	7100 K
		72	7200 K
		73	7300 K
		74	7400 K
		75	7500 K
		76	7600 K
		77	7700 K
		78	7800 K
		79	7900 K
		80	8000 K

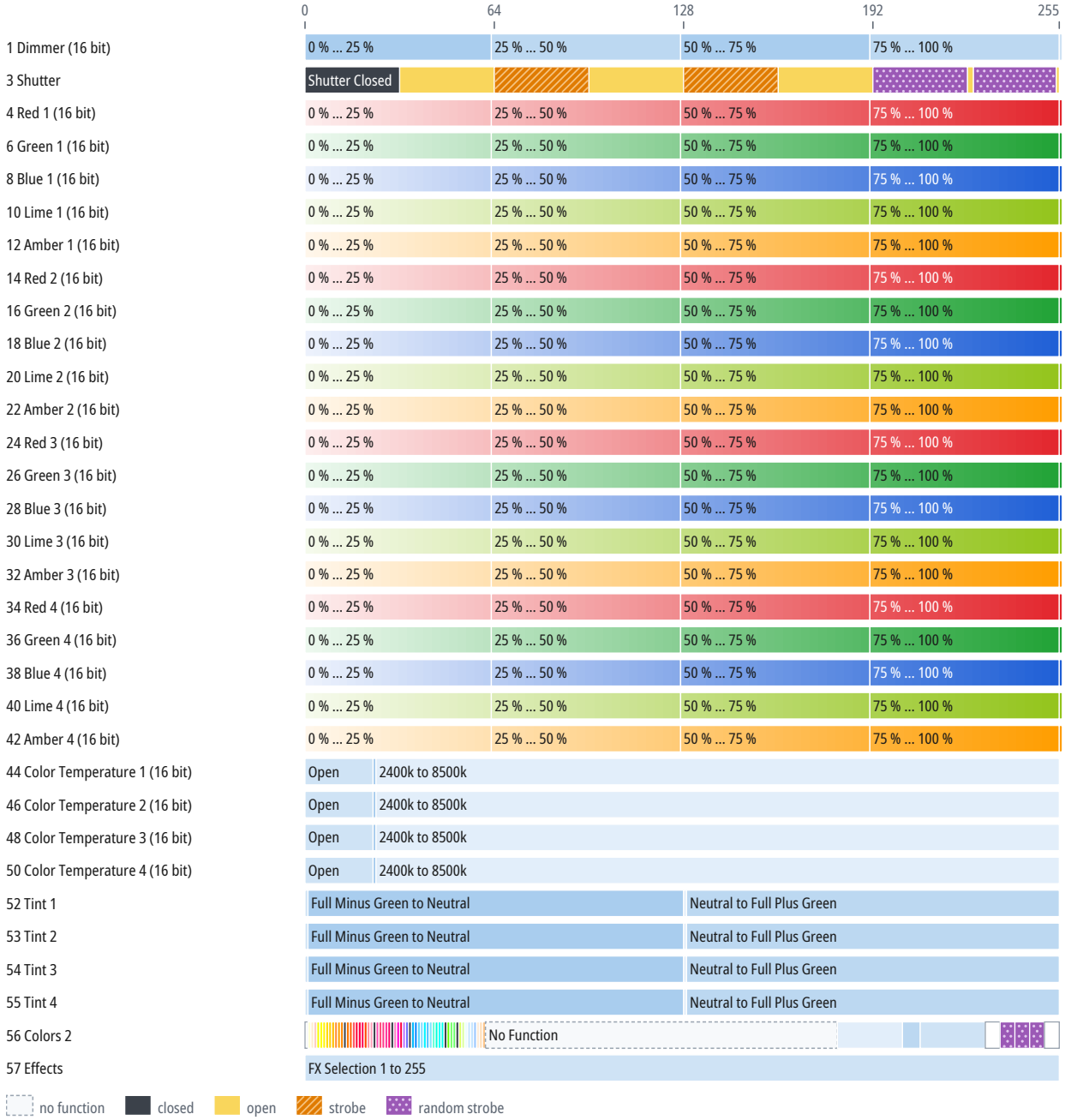
CH	Function	DMX	Description
27	Color Temperature 4 (continued)	81	8100 K
		82	8200 K
		83	8300 K
		84	8400 K
		85	CTO continuous: 8500 K
		86–255	CTO: 8500 K
28	Colors 2		Same as CH 17 in the mode “Extended 22ch” (p. 27)
29	Effects	0–255	FX Selection 1 to 255
30	Effects Speed		Same as CH 12 in the mode “Standard 14ch” (p. 23)
31	Effects Adjust 1		Same as CH 13 in the mode “Standard 14ch” (p. 23)
32	Function		Same as CH 14 in the mode “Standard 14ch” (p. 24)

Mode Extended 4 Cell 61

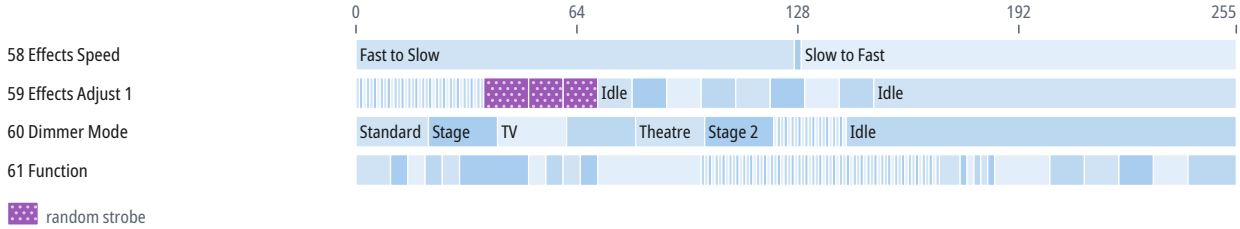
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Shutter 47, CH 4 Red 1 255, CH 6 Green 1 255, CH 8 Blue 1 255, CH 10 Lime 1 255, CH 12 Amber 1 255, CH 14 Red 2 255, CH 16 Green 2 255, CH 18 Blue 2 255, CH 20 Lime 2 255, CH 22 Amber 2 255, CH 24 Red 3 255, CH 26 Green 3 255, CH 28 Blue 3 255, CH 30 Lime 3 255, CH 32 Amber 3 255, CH 34 Red 4 255, CH 36 Green 4 255, CH 38 Blue 4 255, CH 40 Lime 4 255, CH 42 Amber 4 255, CH 56 Colors 2 0.

Channel functions at a glance



Channel functions at a glance



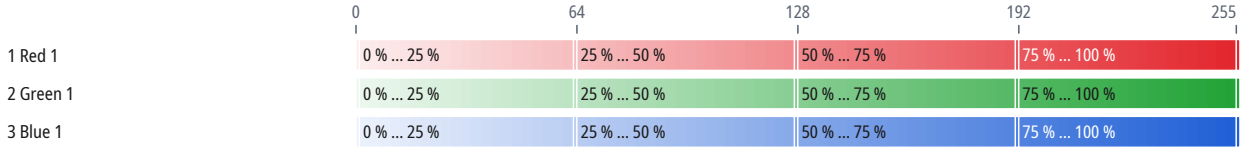
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Dimmer/ CCT 4CH” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter		Same as CH 3 in the mode “Standard 14ch” (p. 19)
4	Red 1		Same as CH 1 in the mode “RGBMA 2 Cell 20CH” (p. 36)
5	Red 1 Fine	0–255	Fine adjustment of CH 4
6	Green 1		Same as CH 3 in the mode “RGBMA 2 Cell 20CH” (p. 36)
7	Green 1 Fine	0–255	Fine adjustment of CH 6
8	Blue 1		Same as CH 5 in the mode “RGBMA 2 Cell 20CH” (p. 37)
9	Blue 1 Fine	0–255	Fine adjustment of CH 8
10	Lime 1		Same as CH 7 in the mode “RGBMA 2 Cell 20CH” (p. 37)
11	Lime 1 Fine	0–255	Fine adjustment of CH 10
12	Amber 1		Same as CH 9 in the mode “RGBMA 2 Cell 20CH” (p. 37)
13	Amber 1 Fine	0–255	Fine adjustment of CH 12
14	Red 2		Same as CH 11 in the mode “RGBMA 2 Cell 20CH” (p. 37)
15	Red 2 Fine	0–255	Fine adjustment of CH 14
16	Green 2		Same as CH 13 in the mode “RGBMA 2 Cell 20CH” (p. 37)
17	Green 2 Fine	0–255	Fine adjustment of CH 16
18	Blue 2		Same as CH 15 in the mode “RGBMA 2 Cell 20CH” (p. 37)
19	Blue 2 Fine	0–255	Fine adjustment of CH 18
20	Lime 2		Same as CH 17 in the mode “RGBMA 2 Cell 20CH” (p. 37)
21	Lime 2 Fine	0–255	Fine adjustment of CH 20
22	Amber 2		Same as CH 19 in the mode “RGBMA 2 Cell 20CH” (p. 38)
23	Amber 2 Fine	0–255	Fine adjustment of CH 22
24	Red 3		Same as CH 21 in the mode “RGBMA 4 Cell 40CH” (p. 51)
25	Red 3 Fine	0–255	Fine adjustment of CH 24
26	Green 3		Same as CH 23 in the mode “RGBMA 4 Cell 40CH” (p. 51)
27	Green 3 Fine	0–255	Fine adjustment of CH 26
28	Blue 3		Same as CH 25 in the mode “RGBMA 4 Cell 40CH” (p. 51)
29	Blue 3 Fine	0–255	Fine adjustment of CH 28
30	Lime 3		Same as CH 27 in the mode “RGBMA 4 Cell 40CH” (p. 51)
31	Lime 3 Fine	0–255	Fine adjustment of CH 30
32	Amber 3		Same as CH 29 in the mode “RGBMA 4 Cell 40CH” (p. 51)
33	Amber 3 Fine	0–255	Fine adjustment of CH 32
34	Red 4		Same as CH 31 in the mode “RGBMA 4 Cell 40CH” (p. 52)

CH	Function	DMX	Description
35	Red 4 Fine	0–255	Fine adjustment of CH 34
36	Green 4		Same as CH 33 in the mode “RGBMA 4 Cell 40CH” (p. 52)
37	Green 4 Fine	0–255	Fine adjustment of CH 36
38	Blue 4		Same as CH 35 in the mode “RGBMA 4 Cell 40CH” (p. 52)
39	Blue 4 Fine	0–255	Fine adjustment of CH 38
40	Lime 4		Same as CH 37 in the mode “RGBMA 4 Cell 40CH” (p. 52)
41	Lime 4 Fine	0–255	Fine adjustment of CH 40
42	Amber 4		Same as CH 39 in the mode “RGBMA 4 Cell 40CH” (p. 52)
43	Amber 4 Fine	0–255	Fine adjustment of CH 42
44	Color Temperature 1		Same as CH 24 in the mode “Extended 2 Cell 35CH” (p. 44)
45	Color Temperature 1 Fine	0–255	Fine adjustment of CH 44
46	Color Temperature 2		Same as CH 26 in the mode “Extended 2 Cell 35CH” (p. 44)
47	Color Temperature 2 Fine	0–255	Fine adjustment of CH 46
48	Color Temperature 3	0–24	Open
		24–255	2400k to 8500k (2400–8500 K)
49	Color Temperature 3 Fine	0–255	Fine adjustment of CH 48
50	Color Temperature 4	0–24	Open
		24–255	2400k to 8500k (2400–8500 K)
51	Color Temperature 4 Fine	0–255	Fine adjustment of CH 50
52	Tint 1		Same as CH 28 in the mode “Extended 2 Cell 35CH” (p. 44)
53	Tint 2		Same as CH 29 in the mode “Extended 2 Cell 35CH” (p. 44)
54	Tint 3	0	Idle
		1–127	Full Minus Green to Neutral
		128	Neutral White
		129–255	Neutral to Full Plus Green
55	Tint 4	0	Idle
		1–127	Full Minus Green to Neutral
		128	Neutral White
		129–255	Neutral to Full Plus Green
56	Colors 2		Same as CH 17 in the mode “Extended 22ch” (p. 27)
57	Effects	0–255	FX Selection 1 to 255
58	Effects Speed		Same as CH 12 in the mode “Standard 14ch” (p. 23)
59	Effects Adjust 1		Same as CH 13 in the mode “Standard 14ch” (p. 23)
60	Dimmer Mode		Same as CH 21 in the mode “Extended 22ch” (p. 29)
61	Function		Same as CH 14 in the mode “Standard 14ch” (p. 24)

Mode RGB 8 Cell 24CH

The GDTF file gives these values for a console's Highlight function: CH 1 Red 255 (the same in each of the 8 cells), CH 2 Green 255 (the same in each of the 8 cells), CH 3 Blue 255 (the same in each of the 8 cells).

Channel functions at a glance



CH	Function	DMX	Description
1	Red 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
2	Green 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
3	Blue 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

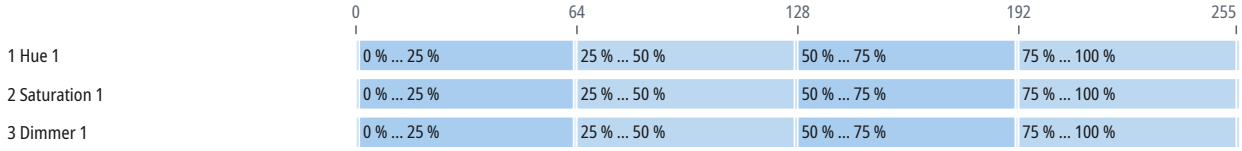
CH 1–24: 8 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 1–3); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	1	2	3	2	4	5	6	3	7	8	9
4	10	11	12	5	13	14	15	6	16	17	18
7	19	20	21	8	22	23	24				

Mode HSI 8 Cell 24CH

The GDTF file gives these values for a console's Highlight function: CH 3 Dimmer 255 (the same in each of the 8 cells).

Channel functions at a glance



CH	Function	DMX	Description
1	Hue 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
2	Saturation 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

CH	Function	DMX	Description
3	Dimmer 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

CH 1–24: 8 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 1–3); the table below gives each cell's channel numbers.

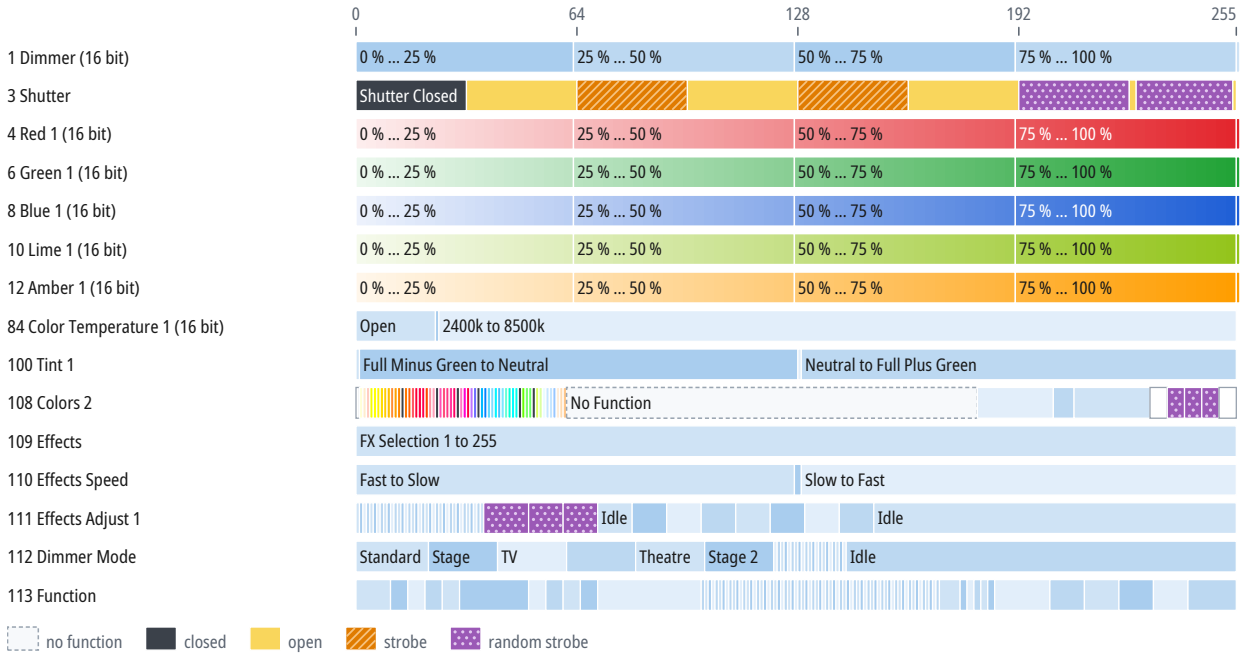
Cell	Hue	Saturation	Dimmer	Cell	Hue	Saturation	Dimmer	Cell	Hue	Saturation	Dimmer
1	1	2	3	2	4	5	6	3	7	8	9
4	10	11	12	5	13	14	15	6	16	17	18
7	19	20	21	8	22	23	24				

Mode Extended 8 Cell 113CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Shutter 47, CH 4 Red 255 (the same in each of the 8 cells), CH 6 Green 255 (the same in each of the 8 cells), CH 8 Blue 255 (the same in each of the 8 cells), CH 10 Lime 255 (the same in each of the 8 cells), CH 12 Amber 255 (the same in each of the 8 cells), CH 108 Colors 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Dimmer/ CCT 4CH” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter		Same as CH 3 in the mode “Standard 14ch” (p. 19)
4	Red 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
5	Red 1 Fine	0–255	Fine adjustment of CH 4
6	Green 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
7	Green 1 Fine	0–255	Fine adjustment of CH 6
8	Blue 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
9	Blue 1 Fine	0–255	Fine adjustment of CH 8
10	Lime 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
11	Lime 1 Fine	0–255	Fine adjustment of CH 10
12	Amber 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
13	Amber 1 Fine	0–255	Fine adjustment of CH 12
84	Color Temperature 1	0–24	Open
		24–255	2400k to 8500k (2400–8500 K)
85	Color Temperature 1 Fine	0–255	Fine adjustment of CH 84
100	Tint 1	0	Idle
		1–127	Full Minus Green to Neutral
		128	Neutral White
		129–255	Neutral to Full Plus Green
108	Colors 2		Same as CH 17 in the mode “Extended 22ch” (p. 27)

CH	Function	DMX	Description
109	Effects	0–255	FX Selection 1 to 255
110	Effects Speed		Same as CH 12 in the mode “Standard 14ch” (p. 23)
111	Effects Adjust 1		Same as CH 13 in the mode “Standard 14ch” (p. 23)
112	Dimmer Mode		Same as CH 21 in the mode “Extended 22ch” (p. 29)
113	Function		Same as CH 14 in the mode “Standard 14ch” (p. 24)

CH 4–83: 8 cells of 10 channels each. Every cell works as cell 1 in the table above (CH 4–13); the table below gives each cell's channel numbers.

Cell	Red	Red Fine	Green	Green Fine	Blue	Blue Fine	Lime	Lime Fine	Amber	Amber Fine
1	4	5	6	7	8	9	10	11	12	13
2	14	15	16	17	18	19	20	21	22	23
3	24	25	26	27	28	29	30	31	32	33
4	34	35	36	37	38	39	40	41	42	43
5	44	45	46	47	48	49	50	51	52	53
6	54	55	56	57	58	59	60	61	62	63
7	64	65	66	67	68	69	70	71	72	73
8	74	75	76	77	78	79	80	81	82	83

CH 84–99: 8 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 84–85); the table below gives each cell's channel numbers.

Cell	Color Temperature	Color Temperature Fine	Cell	Color Temperature	Color Temperature Fine	Cell	Color Temperature	Color Temperature Fine	Cell	Color Temperature	
1	84	85	2	86	87	3	88	89	4	90	9
5	92	93	6	94	95	7	96	97	8	98	9

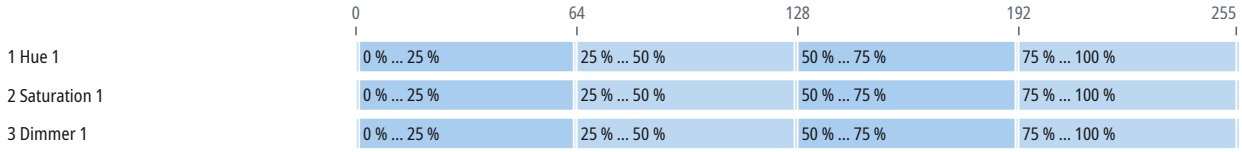
CH 100–107: 8 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 100); the table below gives each cell's channel numbers.

Cell	Tint	Cell	Tint	Cell	Tint	Cell	Tint	Cell	Tint	Cell	Tint
1	100	2	101	3	102	4	103	5	104	6	105
7	106	8	107								

Mode HSI 16 Cell 48CH

The GDTF file gives these values for a console's Highlight function: CH 3 Dimmer 255 (the same in each of the 16 cells).

Channel functions at a glance



CH	Function	DMX	Description
1	Hue 1	0	0 %
		1–62	0 % ... 25 %
		63	25 %

CH	Function	DMX	Description
1	Hue 1 (continued)	64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
2	Saturation 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
3	Dimmer 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %

CH 1–48: 16 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 1–3); the table below gives each cell's channel numbers.

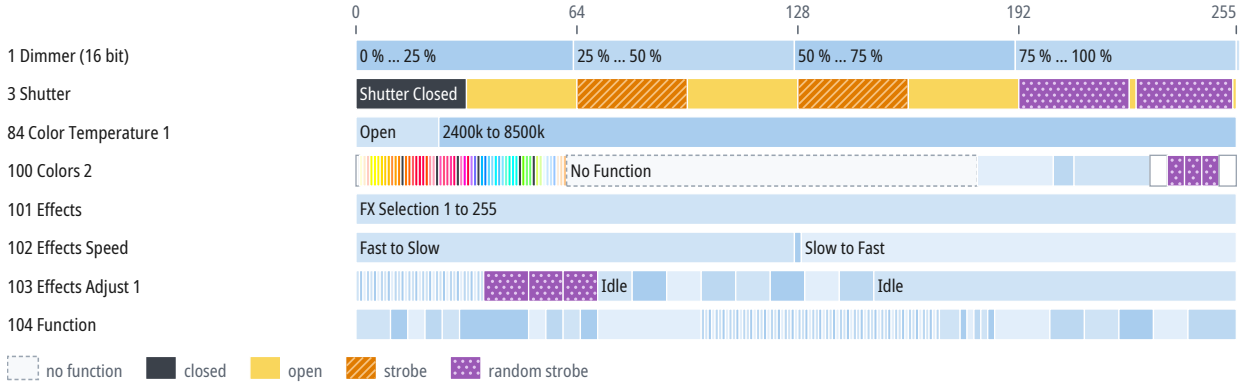
Cell	Hue	Saturation	Dimmer	Cell	Hue	Saturation	Dimmer	Cell	Hue	Saturation	Dimmer
1	1	2	3	2	4	5	6	3	7	8	9
4	10	11	12	5	13	14	15	6	16	17	18
7	19	20	21	8	22	23	24	9	25	26	27
10	28	29	30	11	31	32	33	12	34	35	36
13	37	38	39	14	40	41	42	15	43	44	45
16	46	47	48								

Mode Standard 16 Cell 104CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Shutter 47, CH 4 Red 255 (the same in each of the 16 cells), CH 5 Green 255 (the same in each of the 16 cells), CH 6 Blue 255 (the same in each of the 16 cells), CH 7 Lime 255 (the same in each of the 16 cells), CH 8 Amber 255 (the same in each of the 16 cells), CH 100 Colors 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Dimmer/ CCT 4CH” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter		Same as CH 3 in the mode “Standard 14ch” (p. 19)
4	Red 1	0	0 %
		1–62	0 % ... 25 %
		63	25 %
		64–126	25 % ... 50 %
		127	50 %
		128–190	50 % ... 75 %
		191	75 %
		192–254	75 % ... 100 %
		255	100 %
5	Green 1	0	0 %
		1–62	0 % ... 25 %
		63	25 %
		64–126	25 % ... 50 %
		127	50 %
		128–190	50 % ... 75 %
		191	75 %
		192–254	75 % ... 100 %
		255	100 %
6	Blue 1	0	0 %
		1–62	0 % ... 25 %
		63	25 %

CH	Function	DMX	Description
6	Blue 1 (continued)	64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
7	Lime 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
8	Amber 1	0	0 %
		1–62	0 % … 25 %
		63	25 %
		64–126	25 % … 50 %
		127	50 %
		128–190	50 % … 75 %
		191	75 %
		192–254	75 % … 100 %
		255	100 %
84	Color Temperature 1	0–23	Open
		24–255	2400k to 8500k (2400–8500 K)
100	Colors 2		Same as CH 17 in the mode “Extended 22ch” (p. 27)
101	Effects	0–255	FX Selection 1 to 255
102	Effects Speed		Same as CH 12 in the mode “Standard 14ch” (p. 23)
103	Effects Adjust 1		Same as CH 13 in the mode “Standard 14ch” (p. 23)
104	Function		Same as CH 14 in the mode “Standard 14ch” (p. 24)

CH 4–83: 16 cells of 5 channels each. Every cell works as cell 1 in the table above (CH 4–8); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Lime	Amber	Cell	Red	Green	Blue	Lime	Amber
1	4	5	6	7	8	2	9	10	11	12	13
3	14	15	16	17	18	4	19	20	21	22	23
5	24	25	26	27	28	6	29	30	31	32	33
7	34	35	36	37	38	8	39	40	41	42	43
9	44	45	46	47	48	10	49	50	51	52	53
11	54	55	56	57	58	12	59	60	61	62	63
13	64	65	66	67	68	14	69	70	71	72	73
15	74	75	76	77	78	16	79	80	81	82	83

CH 84–99: 16 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 84); the table below gives each cell's channel numbers.

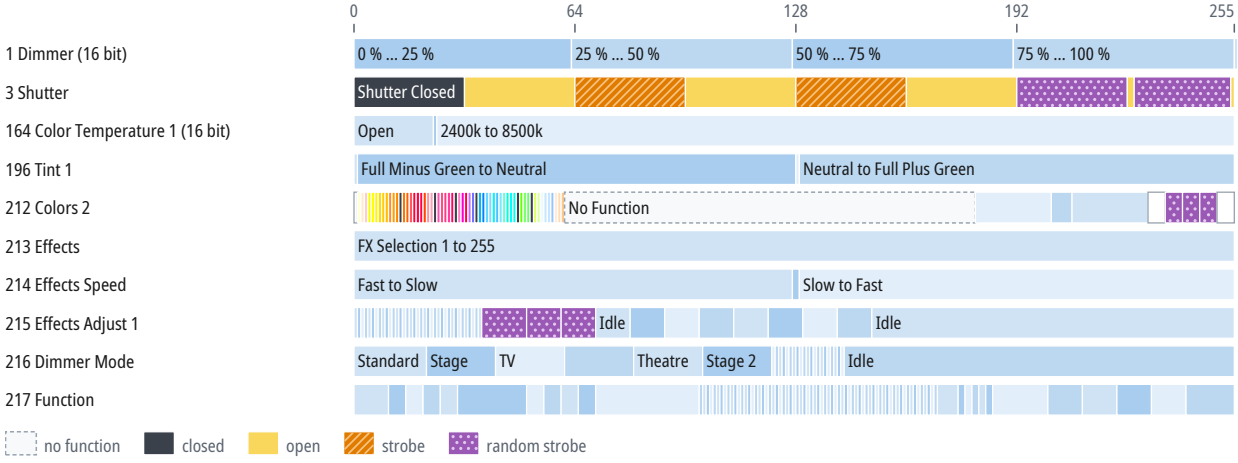
Cell	Color Temperature	Cell	Color Temperature	Cell	Color Temperature	Cell	Color Temperature	Cell	Color Temperature	Cell	Color Temperature
1	84	2	85	3	86	4	87	5	88	6	89
7	90	8	91	9	92	10	93	11	94	12	95
13	96	14	97	15	98	16	99				

Mode Extended 16 Cell 217ch

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 3 Shutter 47, CH 4 Red 255 (the same in each of the 16 cells), CH 6 Green 255 (the same in each of the 16 cells), CH 8 Blue 255 (the same in each of the 16 cells), CH 10 Lime 255 (the same in each of the 16 cells), CH 12 Amber 255 (the same in each of the 16 cells), CH 212 Colors 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Dimmer/ CCT 4CH” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter		Same as CH 3 in the mode “Standard 14ch” (p. 19)
4	Red 1	0–63	0 % ... 25 %
		63–127	25 % ... 50 %
		127–191	50 % ... 75 %
		191–255	75 % ... 100 %
		255	100 %
5	Red 1 Fine	0–255	Fine adjustment of CH 4
6	Green 1	0–63	0 % ... 25 %
		63–127	25 % ... 50 %
		127–191	50 % ... 75 %
		191–255	75 % ... 100 %
		255	100 %
7	Green 1 Fine	0–255	Fine adjustment of CH 6
8	Blue 1	0–63	0 % ... 25 %

CH	Function	DMX	Description
8	Blue 1 (continued)	63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
9	Blue 1 Fine	0–255	Fine adjustment of CH 8
10	Lime 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
11	Lime 1 Fine	0–255	Fine adjustment of CH 10
12	Amber 1	0–63	0 % … 25 %
		63–127	25 % … 50 %
		127–191	50 % … 75 %
		191–255	75 % … 100 %
		255	100 %
13	Amber 1 Fine	0–255	Fine adjustment of CH 12
164	Color Temperature 1	0–24	Open
		24–255	2400k to 8500k (2400–8500 K)
165	Color Temperature 1 Fine	0–255	Fine adjustment of CH 164
196	Tint 1	0	Idle
		1–127	Full Minus Green to Neutral
		128	Neutral White
		129–255	Neutral to Full Plus Green
212	Colors 2		Same as CH 17 in the mode “Extended 22ch” (p. 27)
213	Effects	0–255	FX Selection 1 to 255
214	Effects Speed		Same as CH 12 in the mode “Standard 14ch” (p. 23)
215	Effects Adjust 1		Same as CH 13 in the mode “Standard 14ch” (p. 23)
216	Dimmer Mode		Same as CH 21 in the mode “Extended 22ch” (p. 29)
217	Function		Same as CH 14 in the mode “Standard 14ch” (p. 24)

CH 4–163: 16 cells of 10 channels each. Every cell works as cell 1 in the table above (CH 4–13); the table below gives each cell's channel numbers.

Cell	Red	Red Fine	Green	Green Fine	Blue	Blue Fine	Lime	Lime Fine	Amber	Amber Fine
1	4	5	6	7	8	9	10	11	12	13
2	14	15	16	17	18	19	20	21	22	23
3	24	25	26	27	28	29	30	31	32	33
4	34	35	36	37	38	39	40	41	42	43
5	44	45	46	47	48	49	50	51	52	53
6	54	55	56	57	58	59	60	61	62	63
7	64	65	66	67	68	69	70	71	72	73

Cell	Red	Red Fine	Green	Green Fine	Blue	Blue Fine	Lime	Lime Fine	Amber	Amber Fine
8	74	75	76	77	78	79	80	81	82	83
9	84	85	86	87	88	89	90	91	92	93
10	94	95	96	97	98	99	100	101	102	103
11	104	105	106	107	108	109	110	111	112	113
12	114	115	116	117	118	119	120	121	122	123
13	124	125	126	127	128	129	130	131	132	133
14	134	135	136	137	138	139	140	141	142	143
15	144	145	146	147	148	149	150	151	152	153
16	154	155	156	157	158	159	160	161	162	163

CH 164–195: 16 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 164–165); the table below gives each cell's channel numbers.

Cell	Color Temperature	Color Temperature Fine	Cell	Color Temperature	Color Temperature Fine	Cell	Color Temperature	Color Temperature Fine	Cell	Color Temperature	
1	164	165	2	166	167	3	168	169	4	170	17
5	172	173	6	174	175	7	176	177	8	178	17
9	180	181	10	182	183	11	184	185	12	186	18
13	188	189	14	190	191	15	192	193	16	194	19

CH 196–211: 16 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 196); the table below gives each cell's channel numbers.

Cell	Tint	Cell	Tint	Cell	Tint	Cell	Tint	Cell	Tint	Cell	Tint
1	196	2	197	3	198	4	199	5	200	6	201
7	202	8	203	9	204	10	205	11	206	12	207
13	208	14	209	15	210	16	211				

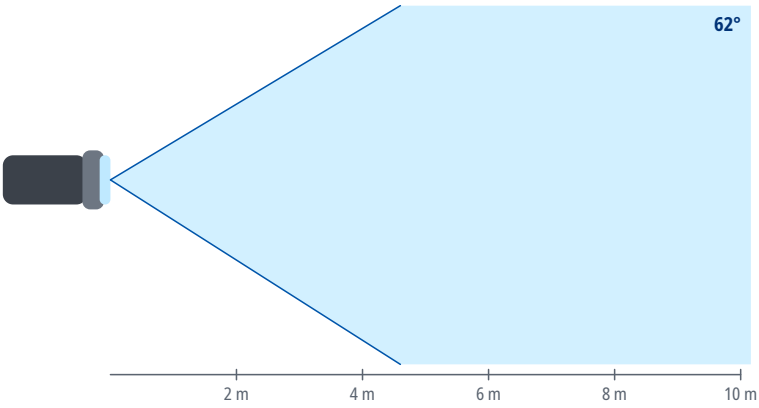
10 Technical specifications

Parameter	Value
Light source	LED
DMX connection	5-pin XLR IN/OUT, 3-pin XLR IN/OUT
RDM	yes (manufacturer ID 0x22A6, device model ID 0x006D)
Power connectors	powerCON TRUE1 IN, powerCONTRUE1TOP OUT
Weight	19.6 kg
Operating temperature	-15 to 45 °C

Speeds and ranges

Parameter	Value
Color temperature range	2400–8500 K
Strobe frequency	1–10 Hz
LED frequency	900–25000 Hz
Color wheel 2 rotation	up to 7200 °/s (1200 rpm)

Spot diameter



Distance	Ø 62°
2 m	2.4 m
4 m	4.8 m
6 m	7.2 m
8 m	9.6 m
10 m	12 m
15 m	18 m

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

11 Maintenance and cleaning

- Before cleaning and maintenance, switch the device off, disconnect it from the power supply and let it cool down.
- Clean the housing with a soft, dry or slightly damp cloth. Do not use solvents, abrasive cleaners or pressure washers, and make sure no liquid gets into the device.
- Clean optical parts (lenses, front glass), if the device has any, with a soft lint-free cloth and a cleaner intended for optics or glass.
- Regularly inspect the housing, cables, connectors and fixings. Have damaged parts replaced by a service center.
- How often to clean depends on the environment; dust, smoke and fog make the device dirty much faster.

12 Troubleshooting

Problem	Remedy
The device does not switch on	Check the supply voltage, the cables and the fuse, if the device has one.
The device does not respond to DMX	Check the start address, the selected DMX mode and whether it matches the profile in the controller, the cable connection to DMX IN, and the controller output (universe).
The device behaves erratically or flickers	Check the terminator at the end of the line, the condition and wiring of the cables (shield on pin 1 only), the number of devices on the line (32 at most), and that the line is not split without a splitter.
Only some devices on the line respond	Check the cable and connectors between the last working and the first non-working device, and make sure all devices on the line are switched on.
Devices respond to the wrong channels or affect each other	Check that the addresses do not overlap and that the DMX mode on the devices matches the patch in the controller.
The device or the connected load does not light up although it receives DMX	Check the values of the dimmer, shutter and strobe channels against the DMX channel table. For the DMX modes for which the sources state it, the chapter DMX channels gives under the mode's heading which channels must be open.

13 Disposal

The crossed-out wheeled bin symbol on the product, in the manual or on the packaging means that the product must not be disposed of with unsorted household waste at the end of its life.

Take the end-of-life equipment to a collection point, for example a municipal collection site or a retailer. Proper disposal enables materials to be recycled and helps prevent possible negative effects on the environment and human health.

Follow the regulations applicable in your country; in the Czech Republic, take-back is governed by Act No. 542/2020 Coll., on End-of-Life Products.

Recycle the packaging materials according to their type.