DMX REFERENCE

FreeStyle 31

Kino Flo FreeStyle 31

Kino Flo



Manufacturer	Kino Flo
GDTF file	Kino_Flo_FreeStyle_31_169534.gdtf
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1 About this manual

This document describes the Kino Flo FreeStyle 31 by Kino Flo. It was compiled from the GDTF file Kino_Flo_FreeStyle_31_169534.gdtf from the GDTF-Share library.

File revision: “Firmware_6_RDM”.

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 Kino Flo; 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	7 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
P1 CCT 8b	3	170	1, 4, 7, 10, ...
P2 GEL 8b	6	85	1, 7, 13, 19, ...
P3 RGB 8b	6	85	1, 7, 13, 19, ...
P4 CCT 8b	3	170	1, 4, 7, 10, ...
P5 xy 8b	3	170	1, 4, 7, 10, ...
P6 CCT 16b	4	128	1, 5, 9, 13, ...
P7 GEL 16b	7	73	1, 8, 15, 22, ...
P8 RGB 16b	7	73	1, 8, 15, 22, ...
P9 CCT 16b	4	128	1, 5, 9, 13, ...
P10 xy 16b	4	128	1, 5, 9, 13, ...
P11 CCT 8b	3	170	1, 4, 7, 10, ...
P12 CCT 16b	5	102	1, 6, 11, 16, ...
P13 Gel 8b	3	170	1, 4, 7, 10, ...
P14 Gel 16b	5	102	1, 6, 11, 16, ...
P15 HS 8b	4	128	1, 5, 9, 13, ...
P16 HS 16b	8	64	1, 9, 17, 25, ...
P17 RGB 8b	5	102	1, 6, 11, 16, ...
P18 RGB 16b	10	51	1, 11, 21, 31, ...
P19 CIE xy 8b	3	170	1, 4, 7, 10, ...
P20 CIE xy 16b	6	85	1, 7, 13, 19, ...
P21 CCT 8b	3	170	1, 4, 7, 10, ...
P22 CCT 16b	5	102	1, 6, 11, 16, ...
P23 xfade CCT & HS 8b	7	73	1, 8, 15, 22, ...
P24 xfade CCT & HS 16b	13	39	1, 14, 27, 40, ...
P25 xfade CCT & RGB 8b	8	64	1, 9, 17, 25, ...
P26 xfade CCT & RGB 16b	15	34	1, 16, 31, 46, ...
P27 xfade xy1 & xy2 8b	6	85	1, 7, 13, 19, ...
P28 xfade xy1 & xy2 16b	12	42	1, 13, 25, 37, ...
P29 xfade CCT & TDRGB 8b	9	56	1, 10, 19, 28, ...
P30 xfade CCT & TDRGB 16b	17	30	1, 18, 35, 52, ...



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 Product description

Description in the GDTF file

“Kino Flo FreeStyle 31 LED DMX System - True Match Firmware 6.0 RDM”

5 Installation

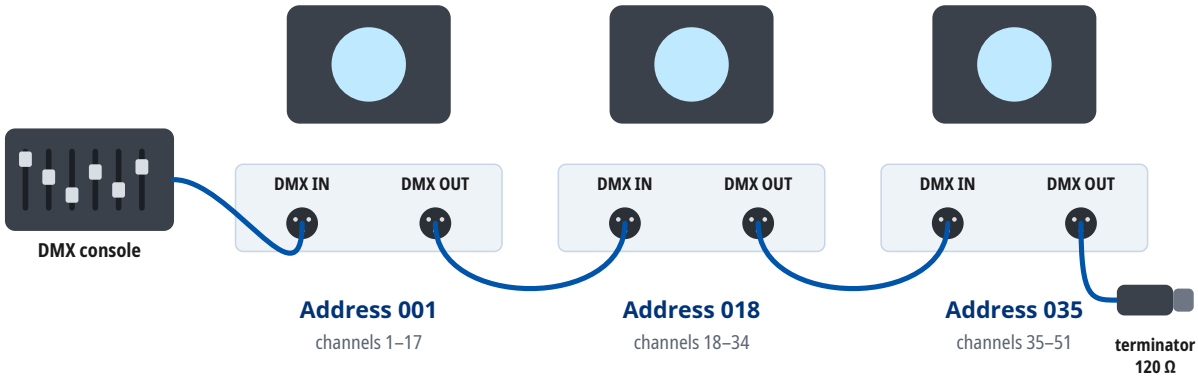
⚠ **WARNING**

- 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: 7 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 P30 xfade CCT & TDRGB 16b: every unit occupies 17 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 “P30 xfade CCT & TDRGB 16b”: 17.
- 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 “P30 xfade CCT & TDRGB 16b”, you can use, for example, the start addresses 1, 18, 35, 52.
- 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.

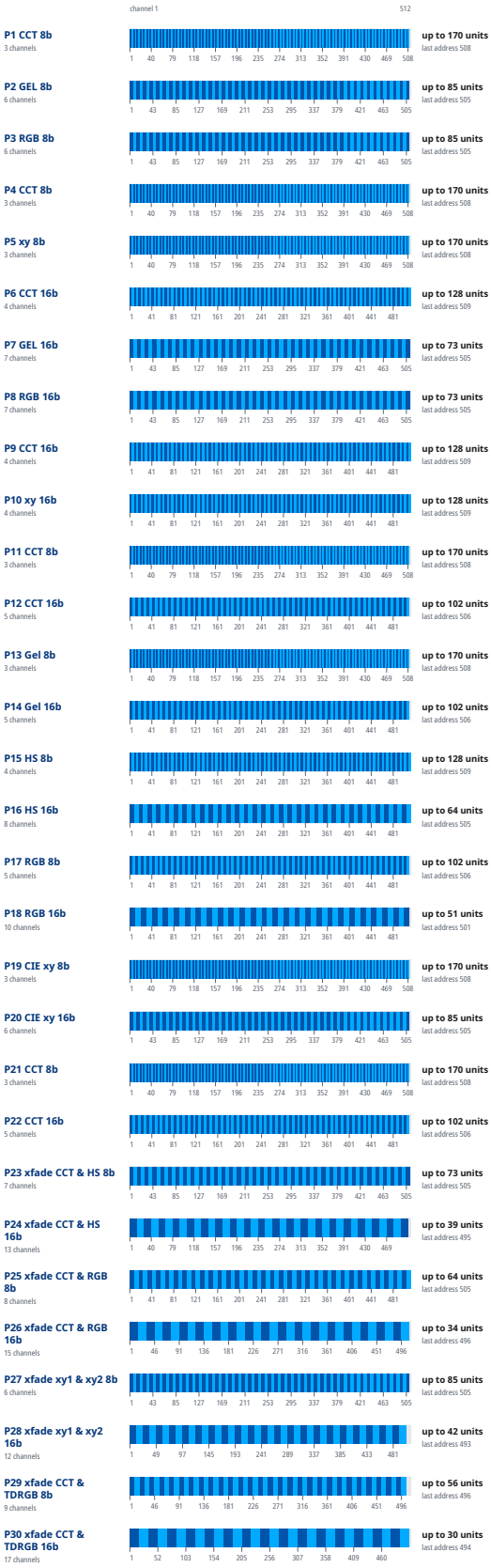
8 Functions at a glance

Functions in each DMX mode

	P1 CCT 8b 3 channels	P2 GEL 8b 6 channels	P3 RGB 8b 6 channels	P4 CCT 8b 3 channels	P5 xy 8b 3 channels	P6 CCT 16b 4 channels	P7 GEL 16b 7 channels	P8 RGB 16b 7 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			4–6					5–7
Color temperature	2	2	2	2		3	3	3
Effects / macros		4					5	

9 DMX channels

Units in one DMX universe



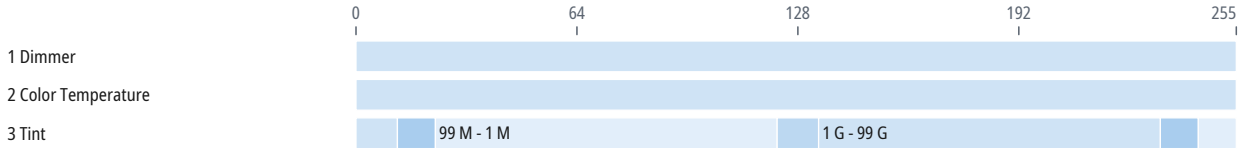
Start addresses of 20 units in the mode “P30 xfade CCT & TDRGB 16b”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	86	11	171	16	256
2	18	7	103	12	188	17	273
3	35	8	120	13	205	18	290
4	52	9	137	14	222	19	307
5	69	10	154	15	239	20	324

Mode P1 CCT 8b

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

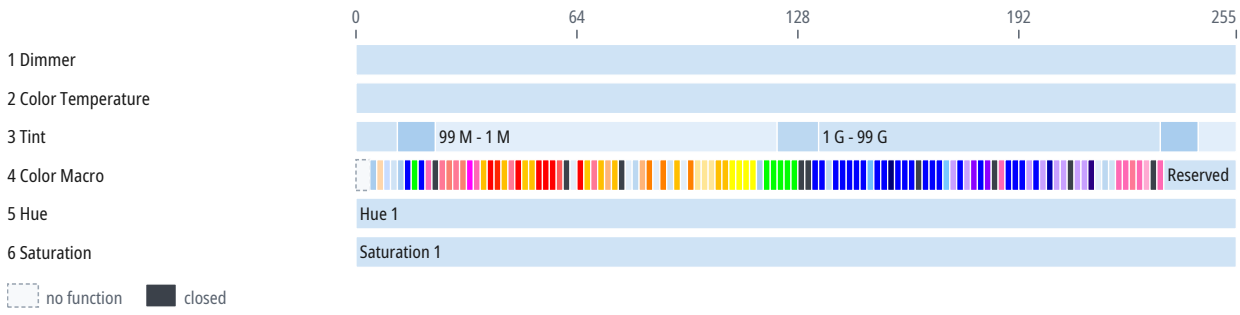


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Tint	0–11	0 G/M
		12–22	100 M
		23–121	99 M - 1 M
		122–133	0 G/M (Mid)
		134–232	1 G - 99 G
		233–243	100 G
		244–255	0 G/M (High)

Mode P2 GEL 8b

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 4 Color Macro 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)
4	Color Macro		Gel List
		0–3	OFF
		4–5	KF Candle Flame
		6–7	KF Flo Warm White
		8–9	KF Flo Cool White
		10–11	KF LP Sodium Vpr
		12–13	KF Mercury Vpr
		14–15	KF 20K Blue Sky
		16–17	KF Green Screen
		18–19	KF Blue Screen
		20–21	Smokey Pink
		22–23	Dark Magenta
		24–25	Bright Rose
		26–27	Pale Salmon
		28–29	Light Rose
		30–31	Light Salmon
		32–33	Magenta
		34–35	Pink
		36–37	Rosy Amber
		38–39	Pale Red
		40–41	Scarlet
		42–43	Loving Amber
		44–45	Pale Rose
		46–47	Medium Red
		48–49	Gold Tint
		50–51	M Bastard Amber
		52–53	Bright Red
		54–55	Flame Red
		56–57	Primary Red
		58–59	Light Red
		60–61	Dark Salmon
		62–63	Fire
		64–65	Sunset Red
		66–67	Pale Gold
		68–69	English Rose
		70–71	Bastard Amber
		72–73	Surprise Peach

CH	Function	DMX	Description
4	Color Macro (continued)	74–75	Deep Gld Amber
		76–77	Dark Amber
		78–79	Apricot
		80–81	Gold Amber
		82–83	Cosmetic Peach
		84–85	Deep Orange
		86–87	Chocolate
		88–89	Orange
		90–91	White Flame
		92–93	Medium Amber
		94–95	Pale Amber Gold
		96–97	Chrome Orange
		98–99	Straw Tint
		100–101	Straw
		102–103	Deep Straw
		104–105	Deep Amber
		106–107	Light Amber
		108–109	Yellow
		110–111	Medium Yellow
		112–113	Spring Yellow
		114–115	Pale Yellow
		116–117	Lime Green
		118–119	Pale Green
		120–121	Leaf Green
		122–123	Fern Green
		124–125	Primary Green
		126–127	Moss Green
		128–129	Dark Y Green
		130–131	Dark Green
		132–133	Marine Blue
		134–135	Peacock Blue
		136–137	Med Blue-Green
		138–139	Sp Steel Blue
		140–141	Lagoon Blue
		142–143	Steel Blue
		144–145	Lighter Blue
		146–147	Summer Blue
		148–149	Light Blue
		150–151	Moonlight Blue
		152–153	Pale Blue
		154–155	Pale Navy Blue

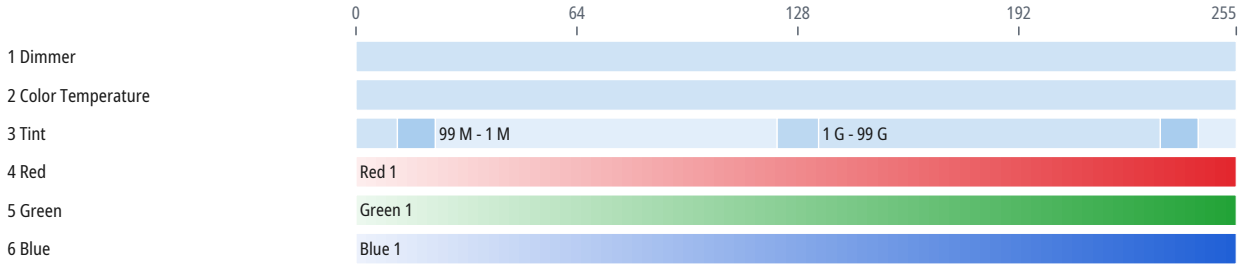
CH	Function	DMX	Description
4	Color Macro (continued)	156–157	Mist Blue
		158–159	Bright Blue
		160–161	True Blue
		162–163	Dark Steel Blue
		164–165	Daylight Blue
		166–167	Slate Blue
		168–169	Medium Blue
		170–171	Sky Blue
		172–173	Paler Lavender
		174–175	Alice Blue
		176–177	Special Lavender
		178–179	Pale Violet
		180–181	Just Blue
		182–183	Violet
		184–185	Dark Blue
		186–187	Surprise Pink
		188–189	Deeper Blue
		190–191	Special M Blue
		192–193	Zenith Blue
		194–195	Light Lavender
		196–197	Palace Blue
		198–199	Lilac Tint
		200–201	Deep Blue
		202–203	Lavender Tint
		204–205	Pale Lavender
		206–207	Dark Lavender
		208–209	Lavender
		210–211	Deep Lavender
		212–213	Congo Blue
		214–215	Rose Purple
		216–217	Mauve
		218–219	Rose Pink
		220–221	Follies Pink
		222–223	Bright Pink
		224–225	Middle Rose
		226–227	Medium Pink
		228–229	Light Pink
		230–231	Dark Pink
		232–233	Flesh Pink
		234–255	Reserved

CH	Function	DMX	Description
5	Hue		Hue 1
		0–255	Hue 1
6	Saturation		Saturation 1
		0–255	Saturation 1

Mode P3 RGB 8b

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

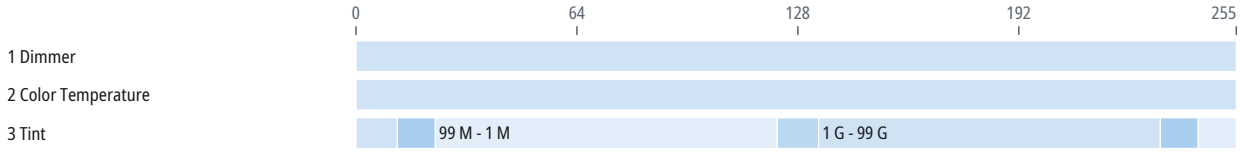


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)
4	Red		Red 1
		0–255	Red 1
5	Green		Green 1
		0–255	Green 1
6	Blue		Blue 1
		0–255	Blue 1

Mode P4 CCT 8b

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

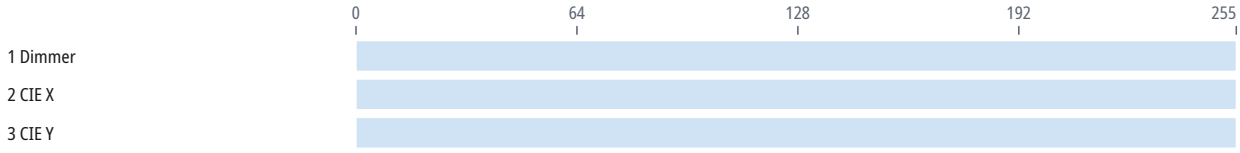


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)

Mode P5 xy 8b

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



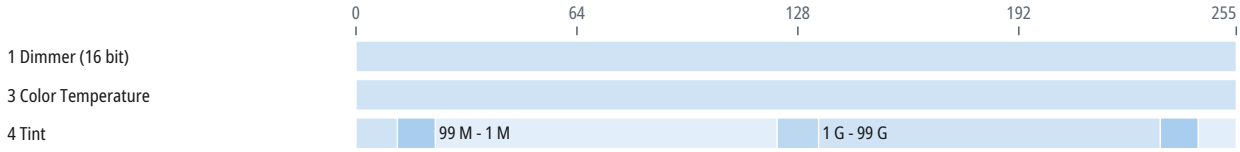
CH	Function	DMX	Description
1	Dimmer	0–255	
2	CIE X		CIE X 1
		0–255	CIE X 1
3	CIE Y		CIE Y 1
		0–255	CIE Y 1

Mode P6 CCT 16b

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

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

Channel functions at a glance



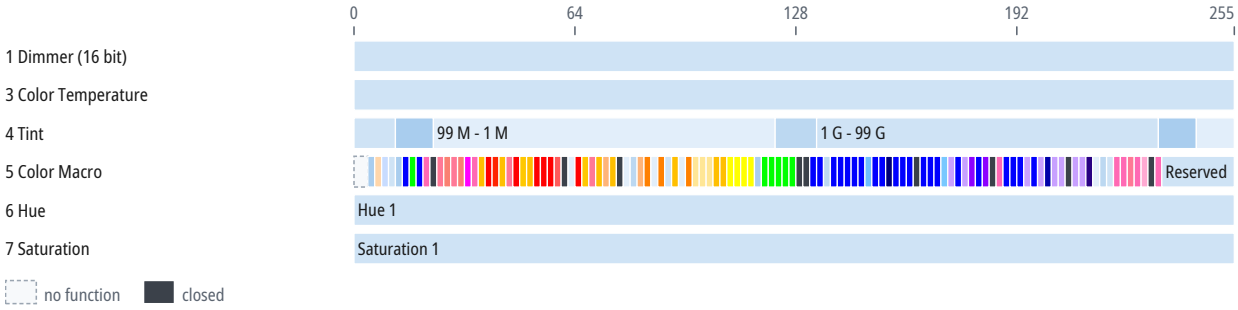
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)

Mode P7 GEL 16b

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

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

Channel functions at a glance



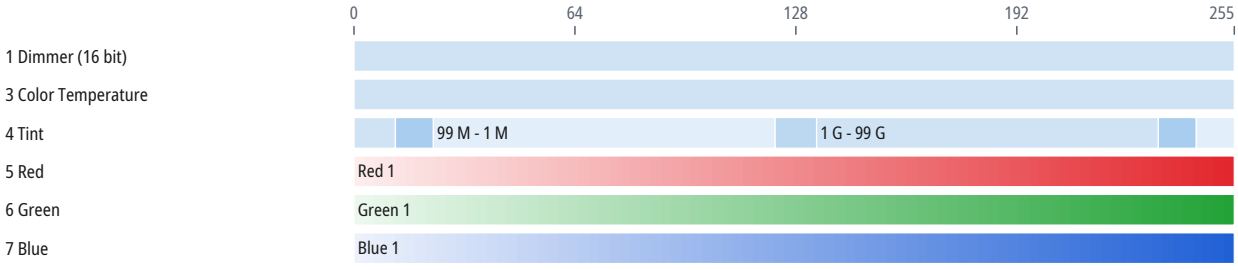
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)
5	Color Macro		Same as CH 4 in the mode “P2 GEL 8b” (p. 9)
6	Hue		Same as CH 5 in the mode “P2 GEL 8b” (p. 12)
7	Saturation		Same as CH 6 in the mode “P2 GEL 8b” (p. 12)

Mode P8 RGB 16b

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

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

Channel functions at a glance



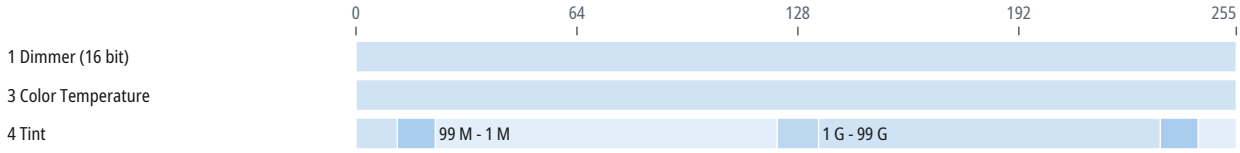
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)
5	Red		Same as CH 4 in the mode “P3 RGB 8b” (p. 12)
6	Green		Same as CH 5 in the mode “P3 RGB 8b” (p. 12)
7	Blue		Same as CH 6 in the mode “P3 RGB 8b” (p. 12)

Mode P9 CCT 16b

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

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

Channel functions at a glance



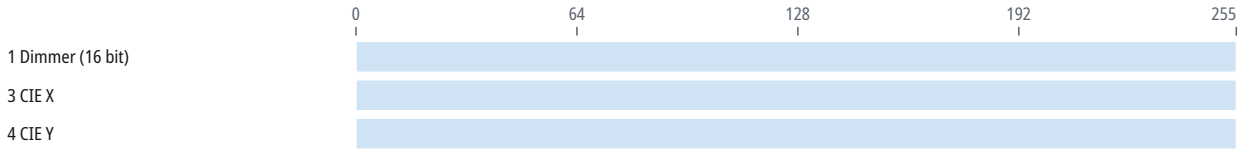
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)

Mode P10 xy 16b

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

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

Channel functions at a glance

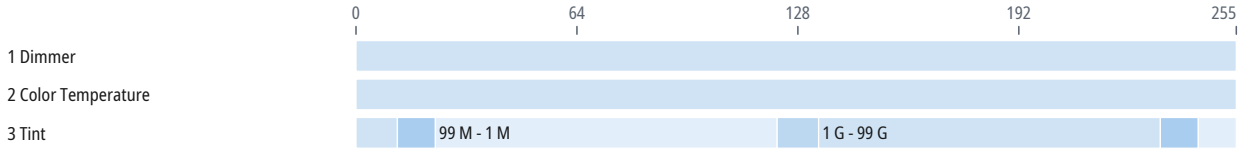


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	CIE X		Same as CH 2 in the mode “P5 xy 8b” (p. 13)
4	CIE Y		Same as CH 3 in the mode “P5 xy 8b” (p. 13)

Mode P11 CCT 8b

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



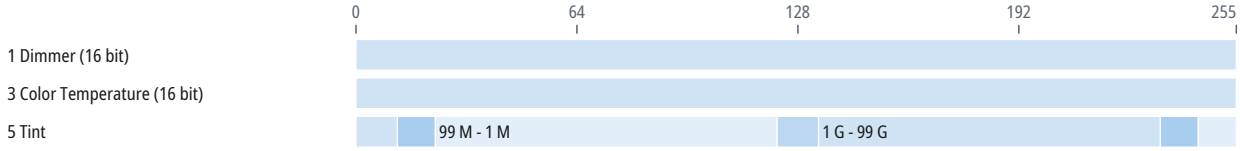
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)

Mode P12 CCT 16b

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

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

Channel functions at a glance

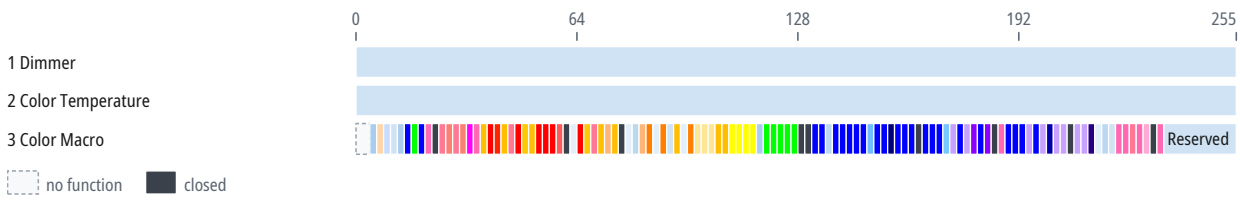


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)

Mode P13 Gel 8b

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 Macro 0.

Channel functions at a glance



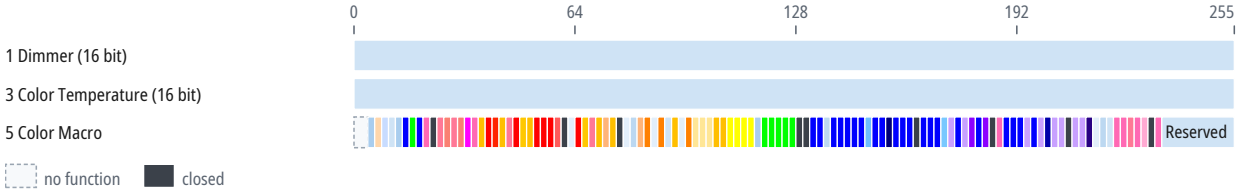
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Color Macro		Same as CH 4 in the mode “P2 GEL 8b” (p. 9)

Mode P14 Gel 16b

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

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

Channel functions at a glance

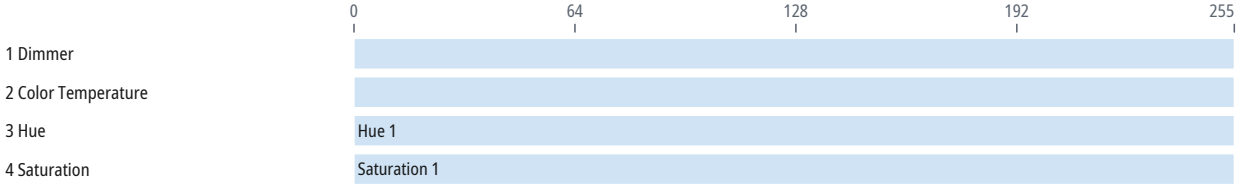


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Color Macro		Same as CH 4 in the mode “P2 GEL 8b” (p. 9)

Mode P15 HS 8b

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



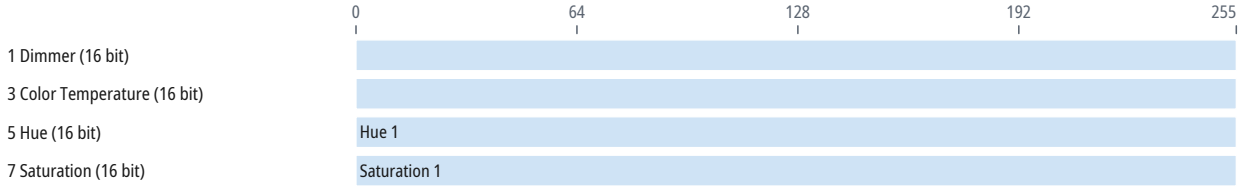
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Hue		Same as CH 5 in the mode “P2 GEL 8b” (p. 12)
4	Saturation		Same as CH 6 in the mode “P2 GEL 8b” (p. 12)

Mode P16 HS 16b

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

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

Channel functions at a glance

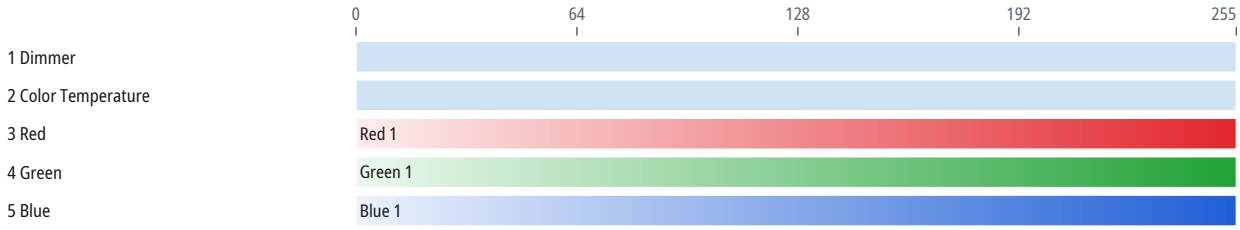


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Hue		Same as CH 5 in the mode “P2 GEL 8b” (p. 12)
6	Hue Fine	0–255	Fine adjustment of CH 5
7	Saturation		Same as CH 6 in the mode “P2 GEL 8b” (p. 12)
8	Saturation Fine	0–255	Fine adjustment of CH 7

Mode P17 RGB 8b

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



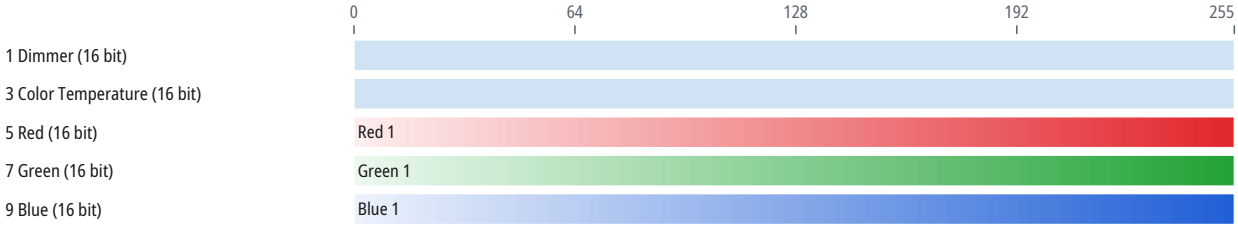
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Red		Same as CH 4 in the mode “P3 RGB 8b” (p. 12)
4	Green		Same as CH 5 in the mode “P3 RGB 8b” (p. 12)
5	Blue		Same as CH 6 in the mode “P3 RGB 8b” (p. 12)

Mode P18 RGB 16b

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

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

Channel functions at a glance

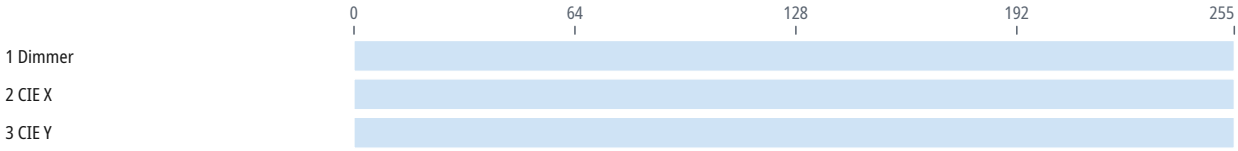


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Red		Same as CH 4 in the mode “P3 RGB 8b” (p. 12)
6	Red Fine	0–255	Fine adjustment of CH 5
7	Green		Same as CH 5 in the mode “P3 RGB 8b” (p. 12)
8	Green Fine	0–255	Fine adjustment of CH 7
9	Blue		Same as CH 6 in the mode “P3 RGB 8b” (p. 12)
10	Blue Fine	0–255	Fine adjustment of CH 9

Mode P19 CIE xy 8b

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



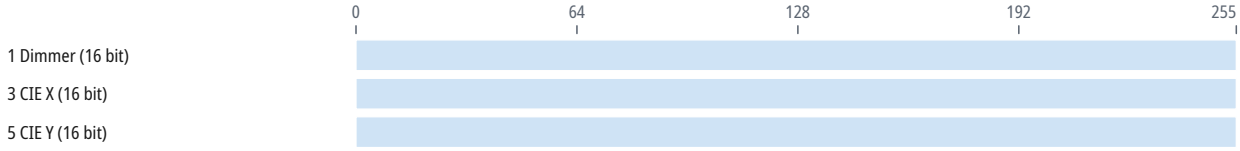
CH	Function	DMX	Description
1	Dimmer	0–255	
2	CIE X		Same as CH 2 in the mode “P5 xy 8b” (p. 13)
3	CIE Y		Same as CH 3 in the mode “P5 xy 8b” (p. 13)

Mode P20 CIE xy 16b

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

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

Channel functions at a glance

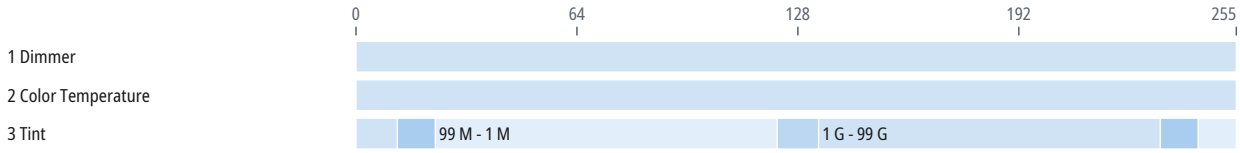


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	CIE X		Same as CH 2 in the mode “P5 xy 8b” (p. 13)
4	CIE X Fine	0–255	Fine adjustment of CH 3
5	CIE Y		Same as CH 3 in the mode “P5 xy 8b” (p. 13)
6	CIE Y Fine	0–255	Fine adjustment of CH 5

Mode P21 CCT 8b

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



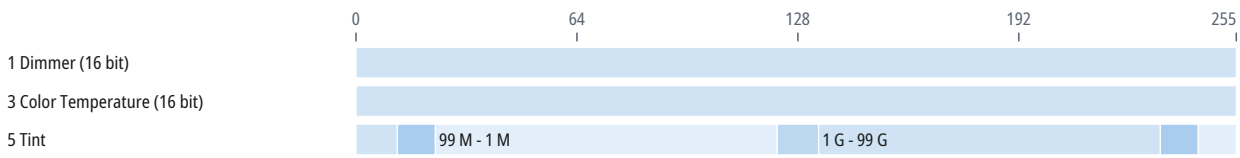
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)

Mode P22 CCT 16b

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

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

Channel functions at a glance

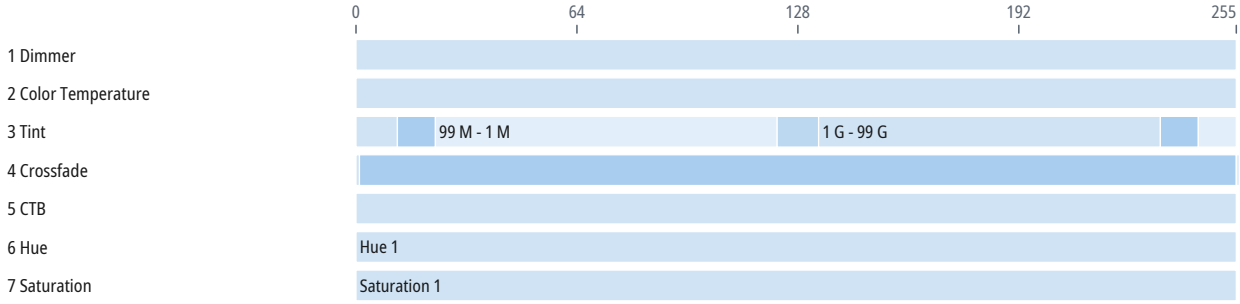


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)

Mode P23 xfade CCT & HS 8b

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



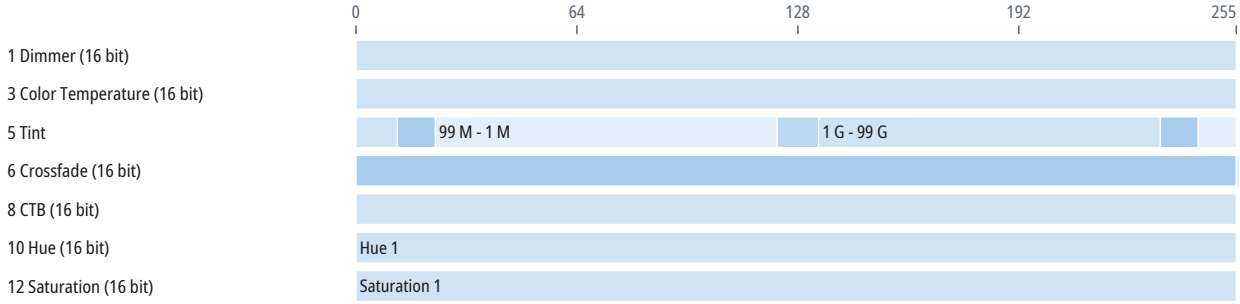
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)
4	Crossfade	0	White (CCT)
		1–254	Crossfade
		255	Color
5	CTB	0–255	2500–9900 K
6	Hue		Same as CH 5 in the mode “P2 GEL 8b” (p. 12)
7	Saturation		Same as CH 6 in the mode “P2 GEL 8b” (p. 12)

Mode P24 xfade CCT & HS 16b

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

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

Channel functions at a glance

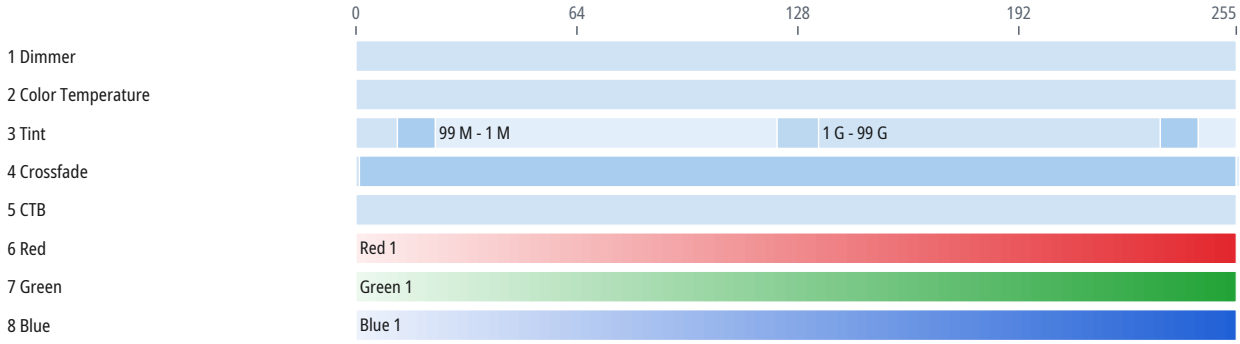


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)
6	Crossfade	0	White (CCT)
		0–255	Crossfade
		255	Color
7	Crossfade Fine	0–255	Fine adjustment of CH 6
8	CTB	0–255	2500–9900 K
9	CTB Fine	0–255	Fine adjustment of CH 8
10	Hue		Same as CH 5 in the mode “P2 GEL 8b” (p. 12)
11	Hue Fine	0–255	Fine adjustment of CH 10
12	Saturation		Same as CH 6 in the mode “P2 GEL 8b” (p. 12)
13	Saturation Fine	0–255	Fine adjustment of CH 12

Mode P25 xfade CCT & RGB 8b

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



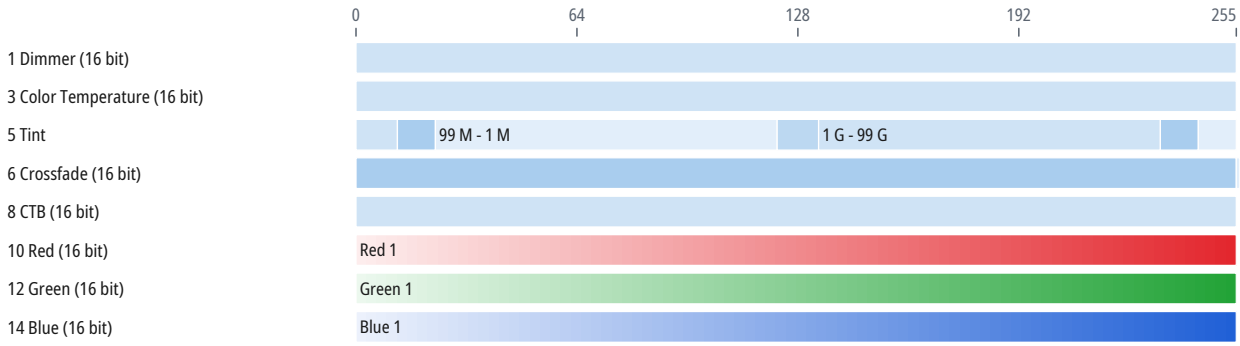
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)
4	Crossfade		Same as CH 4 in the mode “P23 xfade CCT & HS 8b” (p. 21)
5	CTB	0–255	2500–9900 K
6	Red		Same as CH 4 in the mode “P3 RGB 8b” (p. 12)
7	Green		Same as CH 5 in the mode “P3 RGB 8b” (p. 12)
8	Blue		Same as CH 6 in the mode “P3 RGB 8b” (p. 12)

Mode P26 xfade CCT & RGB 16b

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

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

Channel functions at a glance



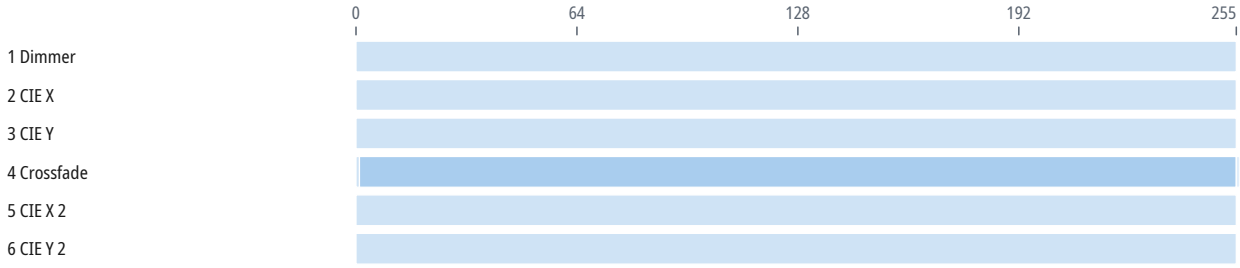
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Color Temperature Fine	0–255	Fine adjustment of CH 3

CH	Function	DMX	Description
5	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)
6	Crossfade		Same as CH 6 in the mode “P24 xfade CCT & HS 16b” (p. 22)
7	Crossfade Fine	0–255	Fine adjustment of CH 6
8	CTB	0–255	2500–9900 K
9	CTB Fine	0–255	Fine adjustment of CH 8
10	Red		Same as CH 4 in the mode “P3 RGB 8b” (p. 12)
11	Red Fine	0–255	Fine adjustment of CH 10
12	Green		Same as CH 5 in the mode “P3 RGB 8b” (p. 12)
13	Green Fine	0–255	Fine adjustment of CH 12
14	Blue		Same as CH 6 in the mode “P3 RGB 8b” (p. 12)
15	Blue Fine	0–255	Fine adjustment of CH 14

Mode P27 xfade xy1 & xy2 8b

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



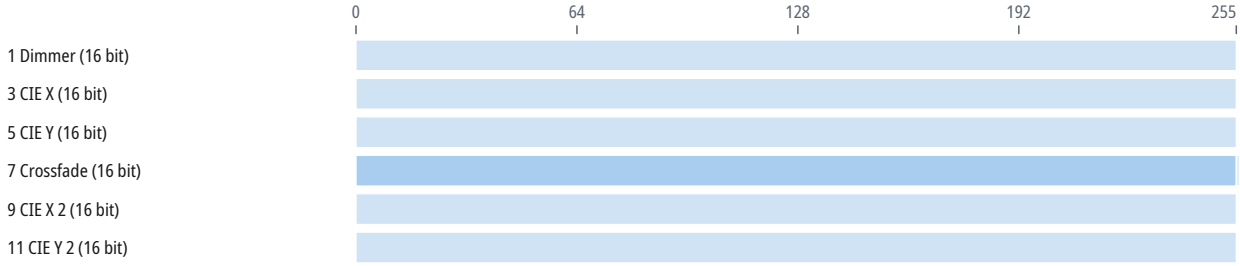
CH	Function	DMX	Description
1	Dimmer	0–255	
2	CIE X		Same as CH 2 in the mode “P5 xy 8b” (p. 13)
3	CIE Y		Same as CH 3 in the mode “P5 xy 8b” (p. 13)
4	Crossfade		Same as CH 4 in the mode “P23 xfade CCT & HS 8b” (p. 21)
5	CIE X 2		CIE X2 1
		0–255	CIE X2 1
6	CIE Y 2		CIE Y2 1
		0–255	CIE Y2 1

Mode P28 xfade xy1 & xy2 16b

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

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

Channel functions at a glance

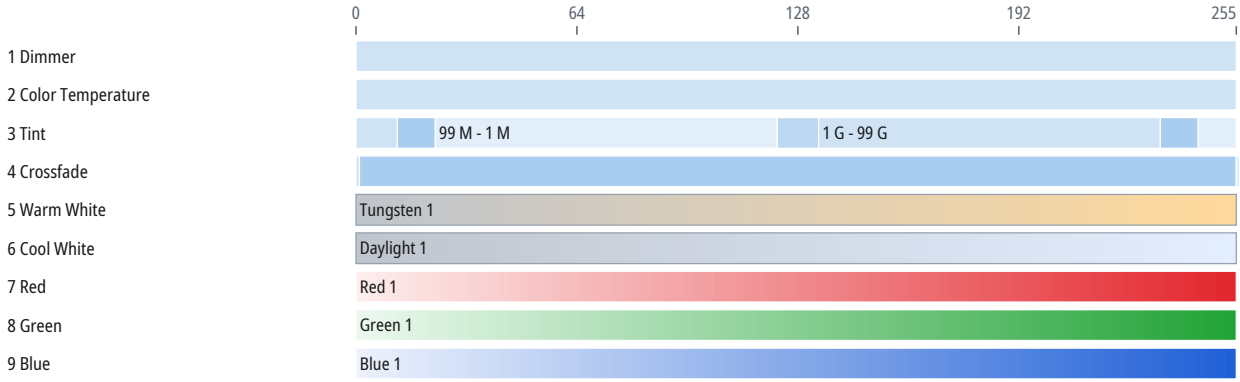


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	CIE X		Same as CH 2 in the mode “P5 xy 8b” (p. 13)
4	CIE X Fine	0–255	Fine adjustment of CH 3
5	CIE Y		Same as CH 3 in the mode “P5 xy 8b” (p. 13)
6	CIE Y Fine	0–255	Fine adjustment of CH 5
7	Crossfade		Same as CH 6 in the mode “P24 xfade CCT & HS 16b” (p. 22)
8	Crossfade Fine	0–255	Fine adjustment of CH 7
9	CIE X 2		Same as CH 5 in the mode “P27 xfade xy1 & xy2 8b” (p. 24)
10	CIE X 2 Fine	0–255	Fine adjustment of CH 9
11	CIE Y 2		Same as CH 6 in the mode “P27 xfade xy1 & xy2 8b” (p. 24)
12	CIE Y 2 Fine	0–255	Fine adjustment of CH 11

Mode P29 xfade CCT & TDRGB 8b

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 Warm White 255, CH 6 Cool White 255.

Channel functions at a glance



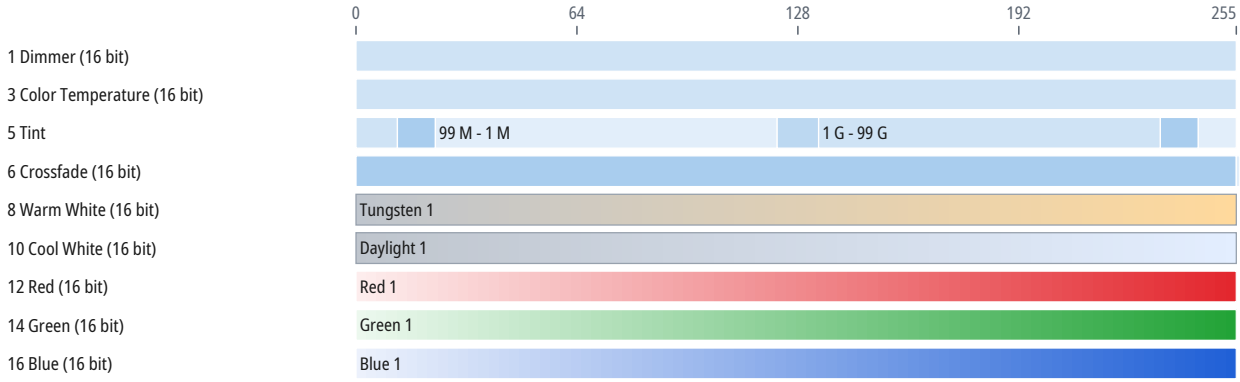
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–255	2500–9900 K
3	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)
4	Crossfade		Same as CH 4 in the mode “P23 xfade CCT & HS 8b” (p. 21)
5	Warm White		Tungsten 1
		0–255	Tungsten 1
6	Cool White		Daylight 1
		0–255	Daylight 1
7	Red		Same as CH 4 in the mode “P3 RGB 8b” (p. 12)
8	Green		Same as CH 5 in the mode “P3 RGB 8b” (p. 12)
9	Blue		Same as CH 6 in the mode “P3 RGB 8b” (p. 12)

Mode P30 xfade CCT & TDRGB 16b

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

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 8 Warm White 255, CH 10 Cool White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500–9900 K
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “P1 CCT 8b” (p. 8)
6	Crossfade		Same as CH 6 in the mode “P24 xfade CCT & HS 16b” (p. 22)
7	Crossfade Fine	0–255	Fine adjustment of CH 6
8	Warm White		Same as CH 5 in the mode “P29 xfade CCT & TDRGB 8b” (p. 26)
9	Warm White Fine	0–255	Fine adjustment of CH 8
10	Cool White		Same as CH 6 in the mode “P29 xfade CCT & TDRGB 8b” (p. 26)
11	Cool White Fine	0–255	Fine adjustment of CH 10
12	Red		Same as CH 4 in the mode “P3 RGB 8b” (p. 12)
13	Red Fine	0–255	Fine adjustment of CH 12

CH	Function	DMX	Description
14	Green		Same as CH 5 in the mode “P3 RGB 8b” (p. 12)
15	Green Fine	0–255	Fine adjustment of CH 14
16	Blue		Same as CH 6 in the mode “P3 RGB 8b” (p. 12)
17	Blue Fine	0–255	Fine adjustment of CH 16

10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	150 W
Luminous flux	5,000 lm
Color temperature	6,500 K
Color rendering index (CRI)	96
Optics	
Beam angle	90°
Control	
RDM	yes (manufacturer ID 0x4B46, device model ID 0x0303)
Dimensions and construction	
Weight	7 kg
Operating environment	
Operating temperature	0 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	2500–9900 K

Dimensions

weight 7 kg



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.