DMX REFERENCE

STORM 400X

Aputure

Manufacturer	Aputure
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1 About this manual

This document describes the STORM 400X by Aputure. It was compiled from the GDTF file Aputure_STORM_400X_118200.gdtf from the GDTF-Share library.

File revision: “2025-11-20-1”.

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 Aputure; 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

DMX modes

Mode	Channels	Units in one universe	First start addresses
CCT+ 8bit Mode	3	170	1, 4, 7, 10, ...
CCT+ 16bit Mode	6	85	1, 7, 13, 19, ...
CCT+Control 8bit Mode	6	85	1, 7, 13, 19, ...
CCT+Control 16bit Mode	9	56	1, 10, 19, 28, ...
CCT+ Control /FX -8bit Mode	10	51	1, 11, 21, 31, ...
CCT+Control/FX 16bit Mode	13	39	1, 14, 27, 40, ...
xy 8bit Mode	3	170	1, 4, 7, 10, ...
xy 16bit Mode	6	85	1, 7, 13, 19, ...
xy+Control 8bit Mode	6	85	1, 7, 13, 19, ...
xy+Control 16bit Mode	9	56	1, 10, 19, 28, ...
xy+Control/FX 8bit Mode	10	51	1, 11, 21, 31, ...
xy+Control/FX 16bit Mode	13	39	1, 14, 27, 40, ...
Limited HSIC+ 8bit Mode	5	102	1, 6, 11, 16, ...
Limited HSIC+ 16bit Mode	8	64	1, 9, 17, 25, ...
Limited HSIC+Control 8bit Mode	8	64	1, 9, 17, 25, ...
Limited HSIC+Control 16bit Mode	11	46	1, 12, 23, 34, ...
CCT/xy 8bit Mode	6	85	1, 7, 13, 19, ...
CCT/xy 16bit Mode	12	42	1, 13, 25, 37, ...
CCT/xy+Control 8bit Mode	9	56	1, 10, 19, 28, ...
CCT/xy+Control 16bit Mode	15	34	1, 16, 31, 46, ...
Limited CCT/RGB 8bit Mode	7	73	1, 8, 15, 22, ...
Limited CCT/RGB 16bit Mode	14	36	1, 15, 29, 43, ...
Limited CCT/RGB+Control 8bit Mode	10	51	1, 11, 21, 31, ...
Limited CCT/RGB+Control 16bit Mode	17	30	1, 18, 35, 52, ...
RGB 8bit Mode	3	170	1, 4, 7, 10, ...
RGB 16bit Mode	6	85	1, 7, 13, 19, ...
RGB+Control 8bit Mode	6	85	1, 7, 13, 19, ...
RGB+Control 16bit Mode	9	56	1, 10, 19, 28, ...
RGBA 8bit Mode	4	128	1, 5, 9, 13, ...
RGBA 16bit Mode	8	64	1, 9, 17, 25, ...
RGBA+Control 8bit Mode	7	73	1, 8, 15, 22, ...
RGBA+Control 16bit Mode	11	46	1, 12, 23, 34, ...



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 Installation

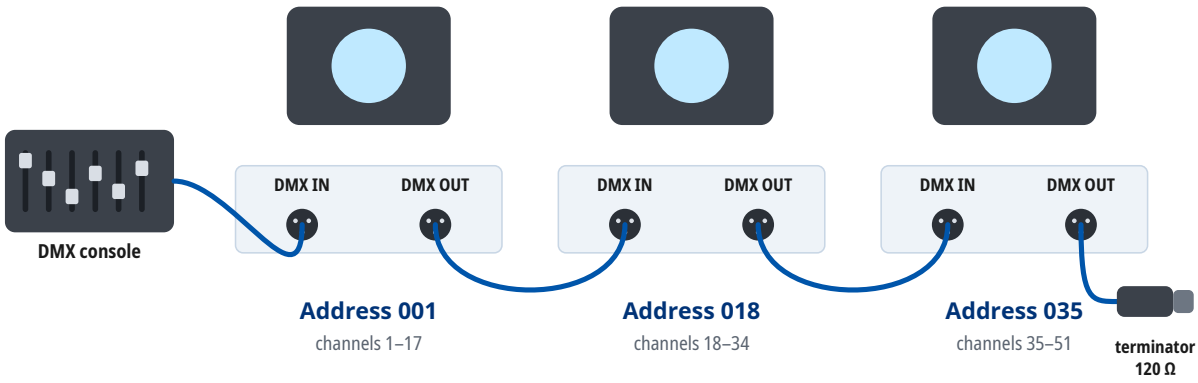
⚠ WARNING

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

5 Connections

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

DMX line



Mode Limited CCT/RGB+Control 16bit Mode: 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.

6 Operation

Setting the DMX address

- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Limited CCT/RGB+Control 16bit Mode”: 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 “Limited CCT/RGB+Control 16bit Mode”, 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.

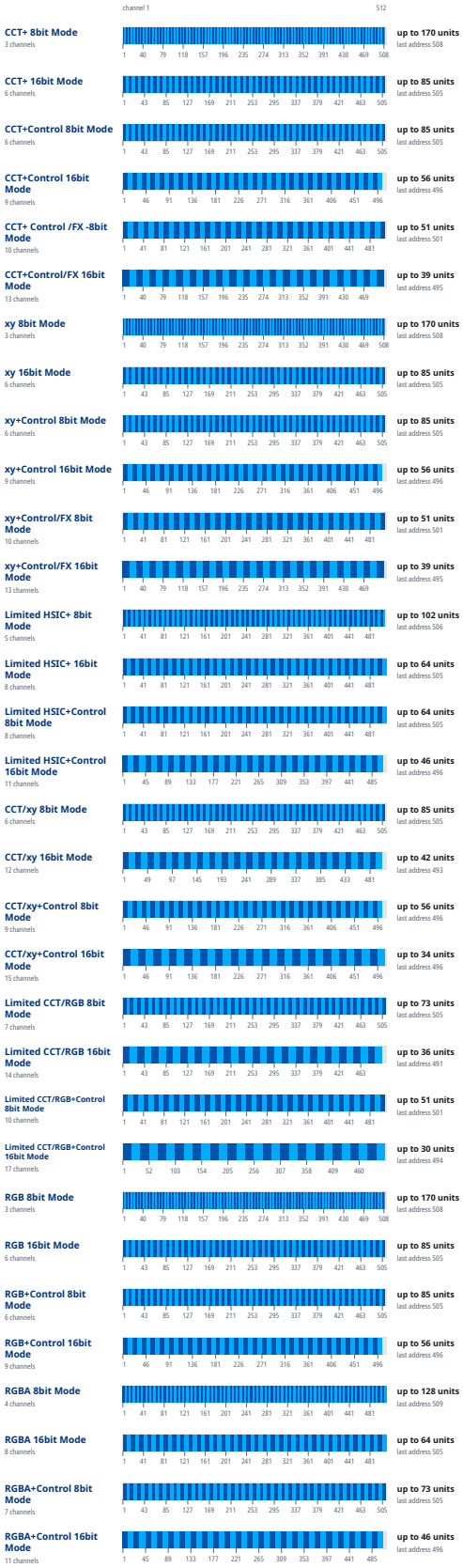
7 Functions at a glance

Functions in each DMX mode

	CCT+ 8bit Mode 3 channels	CCT+ 16bit Mode 6 channels	CCT+Control 8bit Mode 6 channels	CCT+Control 16bit Mode 9 channels	CCT+ Control /FX -8bit Mode 10 channels	CCT+Control/FX 16bit Mode 13 channels	xy 8bit Mode 3 channels	xy 16bit Mode 6 channels
Dimmer	1	1	1	1	1	1	1	1
Dimmer resolution	8 bit	16 bit	8 bit	16 bit	8 bit	16 bit	8 bit	16 bit
Shutter / strobe			4	7	8	11		
Color temperature	2	3	2	3	2	3		

8 DMX channels

Units in one DMX universe



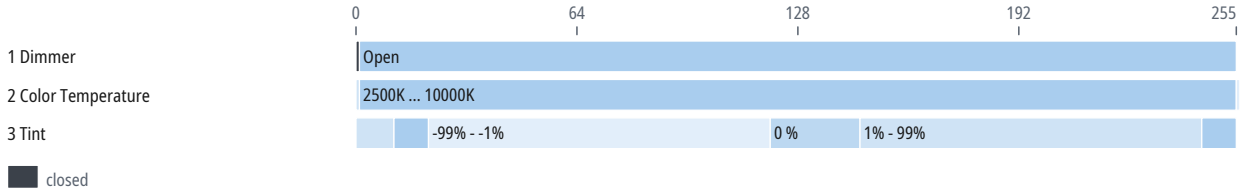
Start addresses of 20 units in the mode “Limited CCT/RGB+Control 16bit Mode”

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 CCT+ 8bit Mode

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



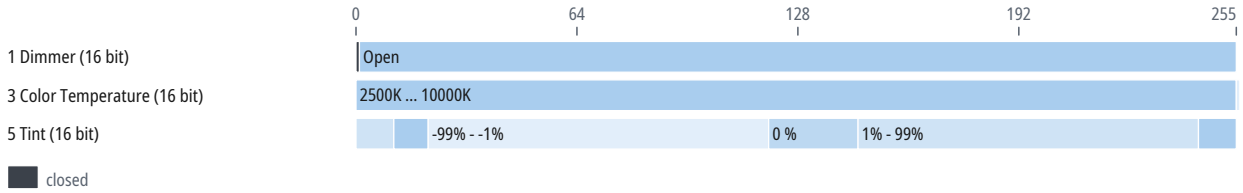
CH	Function	DMX	Description
1	Dimmer	0	Closed
		1–255	Open
2	Color Temperature	0	2500K
		1–254	2500K ... 10000K
		255	10000K
3	Tint	0–10	Neutral / No Effect
		11–20	Full Minus Green
		21–119	-99% - -1%
		120–145	0 %
		146–244	1% - 99%
		245–255	Full Plus Green

Mode CCT+ 16bit Mode

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

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

Channel functions at a glance

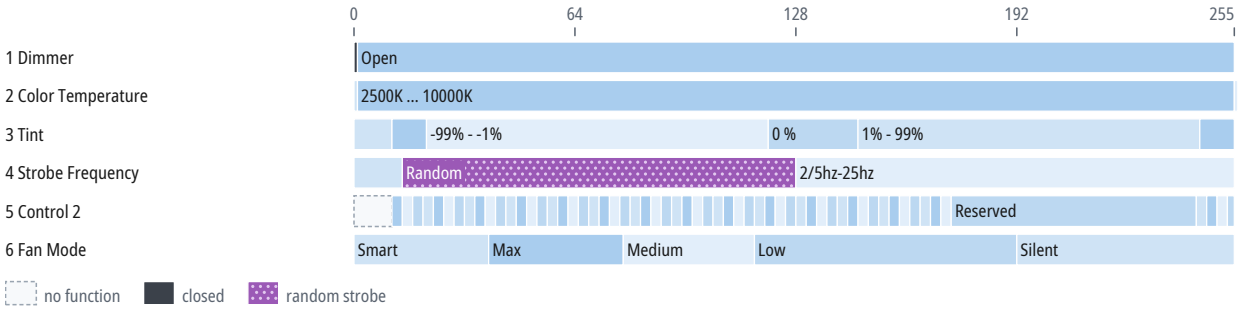


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature	0–255	2500K ... 10000K
		255	10000K
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
6	Tint Fine	0–255	Fine adjustment of CH 5

Mode CCT+Control 8bit Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 4 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Color Temperature		Same as CH 2 in the mode “CCT+ 8bit Mode” (p. 8)
3	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
4	Strobe Frequency	0–13	No effect
		14–127	Random
		128–255	2/5hz-25hz
5	Control 2	0–10	No function
		11–13	Signal Flash On
		14–16	Signal Flash Off
		17–19	Sidus BT On
		20–22	Sidus BT Off
		23–25	Sidus BT Reset
		26–28	DMX Smoothing Off
		29–31	DMX Smoothing Smooth
		32–34	DMX Smoothing Super Smooth
		35–37	DMX Smoothing Feather
		38–40	CRMX On
		41–43	CRMX Off

CH	Function	DMX	Description
5	Control 2 (continued)	44–46	CRMX unlink
		47–49	CRMX Link
		50–52	CRMX Mode RX
		53–55	CRMX Mode TX
		56–58	RDM off
		59–61	RDM on
		62–64	High Speed Mode On
		65–67	High Speed Mode Off
		68–70	Constant Output
		71–73	Maximum Output
		74–76	Studio Mode ON
		77–79	Studio Mode OFF
		80–82	Turn On Fan DMX Control Channel
		83–85	Turn Off Fan DMX Control Channel
		86–88	Lamp Battery Runtime Max
		89–91	Lamp Battery Runtime Option 2
		92–94	Lamp Battery Runtime Option 3
		95–97	Lamp Battery Runtime Option 4
		98–100	Dim curve Linear
		101–103	Dim curve Exponential
		104–106	Dim curve Logarithmic
		107–109	Dim curve S-Curve
		110–112	Frequency +0 Hz
		113–115	Frequency +100 Hz
		116–118	Frequency +200 Hz
		119–121	Frequency +300 Hz
		122–124	Frequency +400 Hz
		125–127	Frequency +500 Hz
		128–130	Frequency +600 Hz
		131–133	Frequency +700 Hz
		134–136	Frequency +800 Hz
		137–139	Frequency +900 Hz
		140–142	Frequency +1000 Hz
		143–145	Frequency +1100 Hz
		146–148	Frequency +1200 Hz
		149–151	Frequency +1300 Hz
		152–154	Frequency +1400 Hz
		155–157	Frequency +1500 Hz
		158–160	Frequency +1600 Hz
		161–163	Frequency +1700 Hz
		164–166	Frequency +1800 Hz

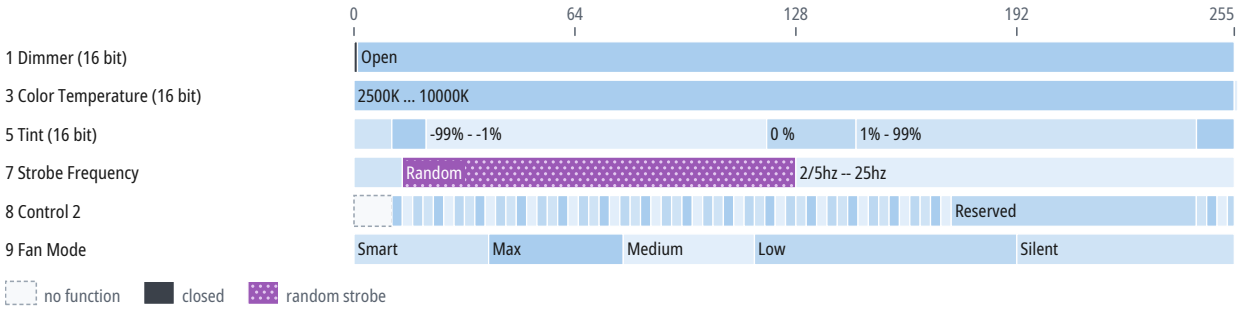
CH	Function	DMX	Description
5	Control 2 (continued)	167–169	Frequency +1900 Hz
		170–172	Frequency +2000 Hz
		173–243	Reserved
		244–246	CIE Daylight
		247–249	Blackbody
		250–252	Turn On Control Channel
		253–255	Turn off Control Channel
6	Fan Mode	0–38	Smart
		39–77	Max
		78–115	Medium
		116–191	Low
		192–255	Silent

Mode CCT+Control 16bit Mode

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; CH 7 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance

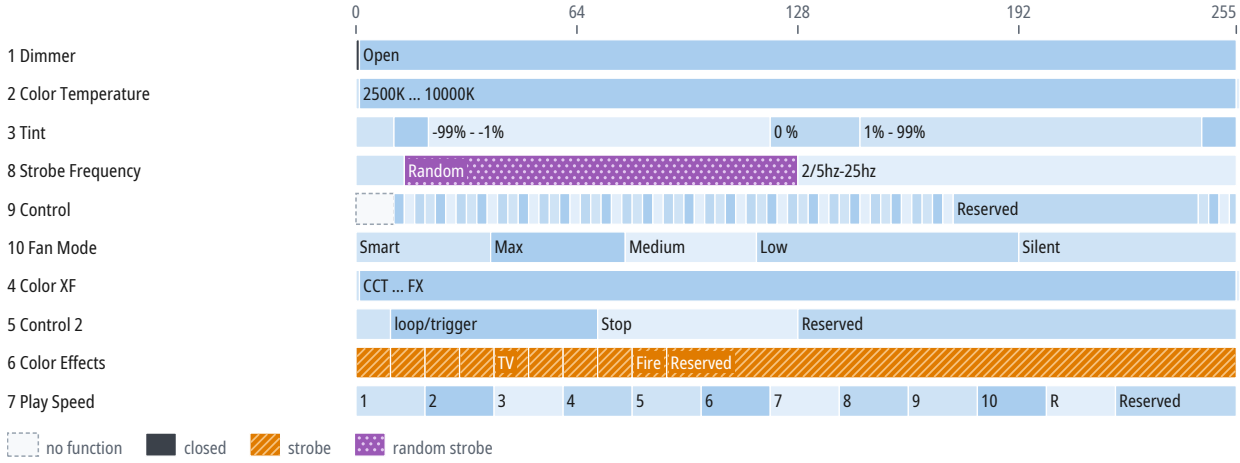


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “CCT+ 16bit Mode” (p. 9)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Strobe Frequency	0–13	No effect
		14–127	Random
		128–255	2/5hz -- 25hz
8	Control 2		Same as CH 5 in the mode “CCT+Control 8bit Mode” (p. 9)
9	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode CCT+ Control /FX -8bit Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 8 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Color Temperature		Same as CH 2 in the mode “CCT+ 8bit Mode” (p. 8)
3	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
4	Color XF	0	CCT
		1–254	CCT ... FX
		255	FX
5	Control 2	0–9	Loop
		10–69	loop/trigger
		70–127	Stop
		128–255	Reserved
6	Color Effects	0–9	Paparazzi
		10–19	Fireworks
		20–29	Faulty Bulb
		30–39	Lightning
		40–49	TV
		50–59	Pulsing
		60–69	Strobe
		70–79	Explosion
		80–89	Fire
		90–255	Reserved
7	Play Speed	0–19	1
		20–39	2
		40–59	3
		60–79	4

CH	Function	DMX	Description
7	Play Speed (continued)	80–99	5
		100–119	6
		120–139	7
		140–159	8
		160–179	9
		180–199	10
		200–219	R
		220–255	Reserved
8	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
9	Control	0–10	No function
		11–13	Signal Flash On
		14–16	Signal Flash Off
		17–19	Sidus BT On
		20–22	Sidus BT Off
		23–25	Sidus BT Reset
		26–28	DMX Smoothing Off
		29–31	DMX Smoothing Smooth
		32–34	DMX Smoothing Super Smooth
		35–37	DMX Smoothing Feather
		38–40	CRMX On
		41–43	CRMX Off
		44–46	CRMX unlink
		47–49	CRMX Link
		50–52	CRMX Mode RX
		53–55	CRMX Mode TX
		56–58	RDM off
		59–61	RDM on
		62–64	High Speed Mode On
		65–67	High Speed Mode Off
		68–70	Constant Output
		71–73	Maximum Output
		74–76	Studio Mode ON
		77–79	Studio Mode OFF
		80–82	Turn On Fan DMX Control Channel
		83–85	Turn Off Fan DMX Control Channel
		86–88	Lamp Battery Runtime Max
		89–91	Lamp Battery Runtime Option 2
		92–94	Lamp Battery Runtime Option 3
		95–97	Lamp Battery Runtime Option 4
		98–100	Dim curve Linear
		101–103	Dim curve Exponential
		104–106	Dim curve Logarithmic

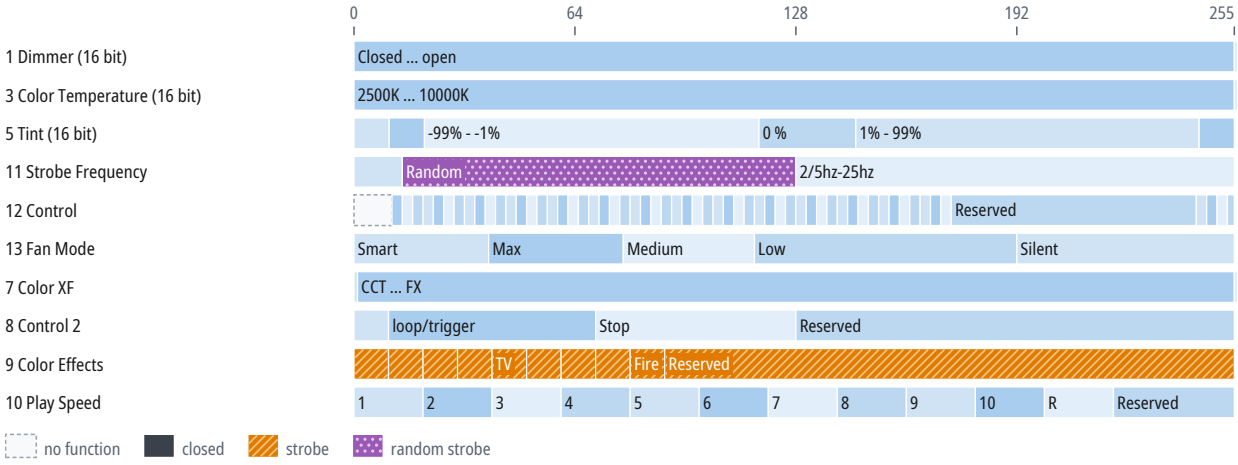
CH	Function	DMX	Description
9	Control (continued)	107–109	Dim curve S-Curve
		110–112	Frequency +0 Hz
		113–115	Frequency +100 Hz
		116–118	Frequency +200 Hz
		119–121	Frequency +300 Hz
		122–124	Frequency +400 Hz
		125–127	Frequency +500 Hz
		128–130	Frequency +600 Hz
		131–133	Frequency +700 Hz
		134–136	Frequency +800 Hz
		137–139	Frequency +900 Hz
		140–142	Frequency +1000 Hz
		143–145	Frequency +1100 Hz
		146–148	Frequency +1200 Hz
		149–151	Frequency +1300 Hz
		152–154	Frequency +1400 Hz
		155–157	Frequency +1500 Hz
		158–160	Frequency +1600 Hz
		161–163	Frequency +1700 Hz
		164–166	Frequency +1800 Hz
		167–169	Frequency +1900 Hz
		170–172	Frequency +2000 Hz
		173–243	Reserved
		244–246	CIE Daylight
		247–249	Blackbody
		250–252	Turn On Control Channel
		253–255	Turn off Control Channel
10	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode CCT+Control/FX 16bit Mode

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; CH 11 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance

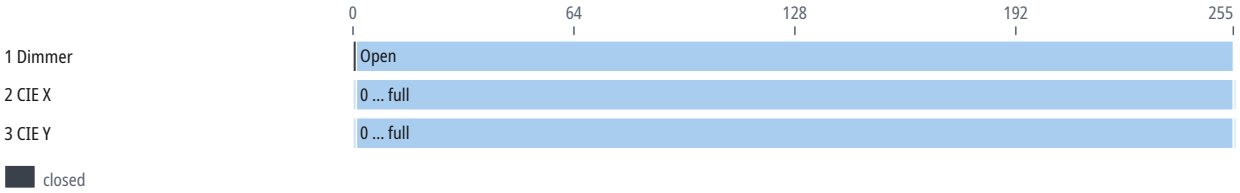


CH	Function	DMX	Description
1	Dimmer	0–255	Closed ... open
		255	Open
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “CCT+ 16bit Mode” (p. 9)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint	0–10	Neutral / No Effect
		10–20	Full Minus Green
		20–117	-99% - -1%
		117–145	0 %
		145–245	1% - 99%
		245–255	Full Plus Green
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Color XF		Same as CH 4 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
8	Control 2		Same as CH 5 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
9	Color Effects		Same as CH 6 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
10	Play Speed		Same as CH 7 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
11	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
12	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
13	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode xy 8bit Mode

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

Channel functions at a glance



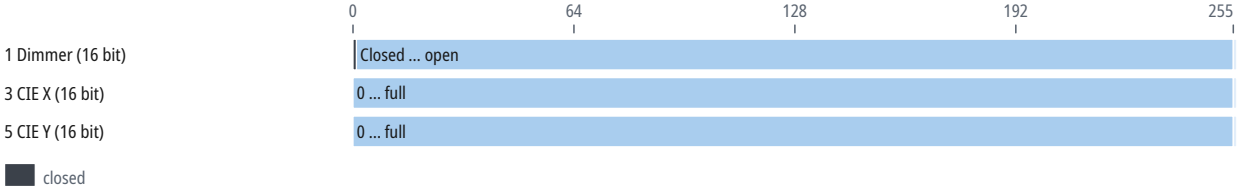
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	CIE X	0	0
		1–254	0 ... full
		255	Full
3	CIE Y	0	0
		1–254	0 ... full
		255	Full

Mode xy 16bit Mode

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

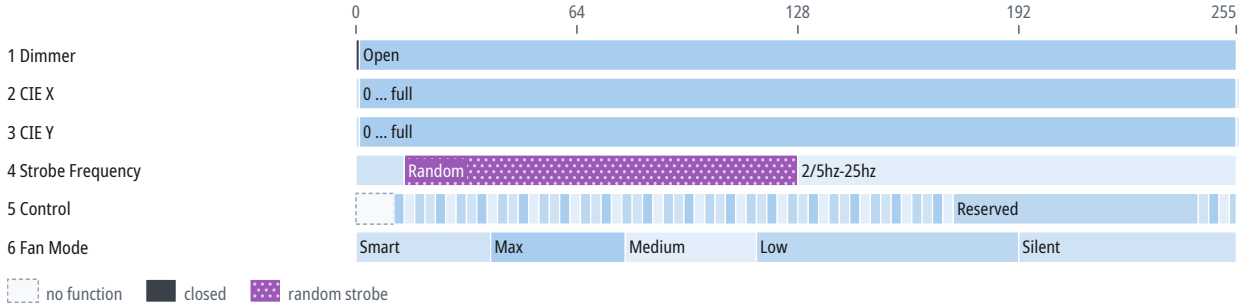


CH	Function	DMX	Description
1	Dimmer	0	Closed
		1–255	Closed ... open
		255	Open
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	CIE X	0–255	0 ... full
		255	Full
4	CIE X Fine	0–255	Fine adjustment of CH 3
5	CIE Y	0–255	0 ... full
		255	Full
6	CIE Y Fine	0–255	Fine adjustment of CH 5

Mode xy+Control 8bit Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 4 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance



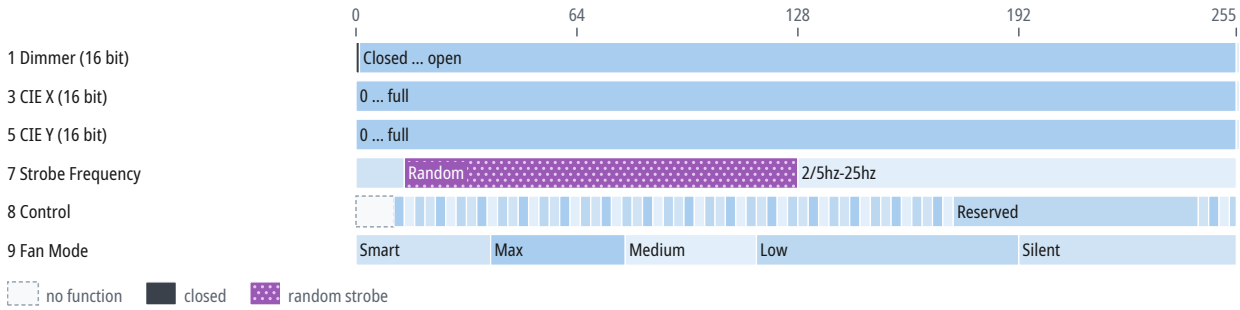
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	CIE X		Same as CH 2 in the mode “xy 8bit Mode” (p. 16)
3	CIE Y		Same as CH 3 in the mode “xy 8bit Mode” (p. 16)
4	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
5	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
6	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode xy+Control 16bit Mode

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; CH 7 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance



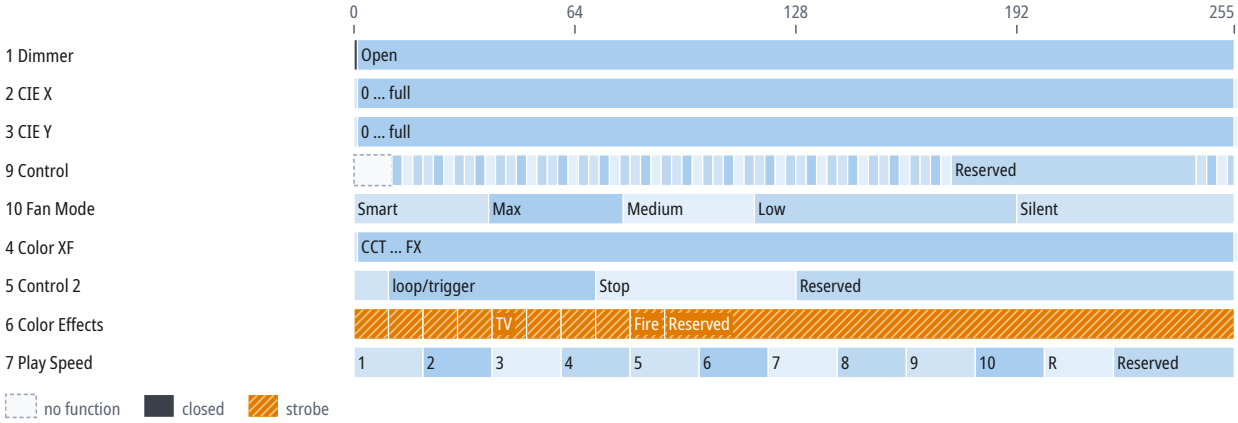
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “xy 16bit Mode” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	CIE X		Same as CH 3 in the mode “xy 16bit Mode” (p. 16)
4	CIE X Fine	0–255	Fine adjustment of CH 3
5	CIE Y		Same as CH 5 in the mode “xy 16bit Mode” (p. 16)

CH	Function	DMX	Description
6	CIE Y Fine	0–255	Fine adjustment of CH 5
7	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
8	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
9	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode xy+Control/FX 8bit Mode

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

Channel functions at a glance



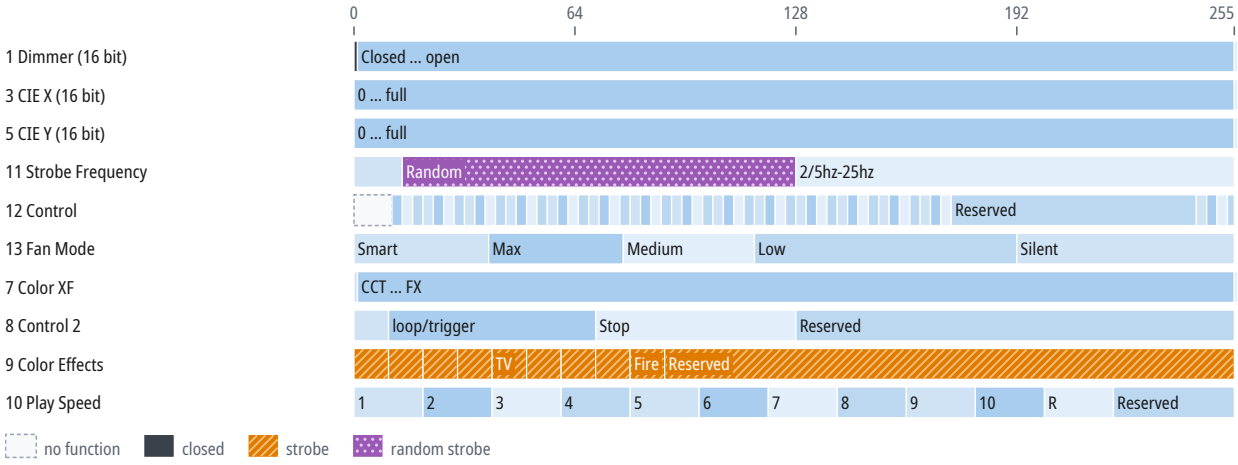
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	CIE X		Same as CH 2 in the mode “xy 8bit Mode” (p. 16)
3	CIE Y		Same as CH 3 in the mode “xy 8bit Mode” (p. 16)
4	Color XF		Same as CH 4 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
5	Control 2		Same as CH 5 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
6	Color Effects		Same as CH 6 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
7	Play Speed		Same as CH 7 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
9	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
10	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode xy+Control/FX 16bit Mode

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; CH 11 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance

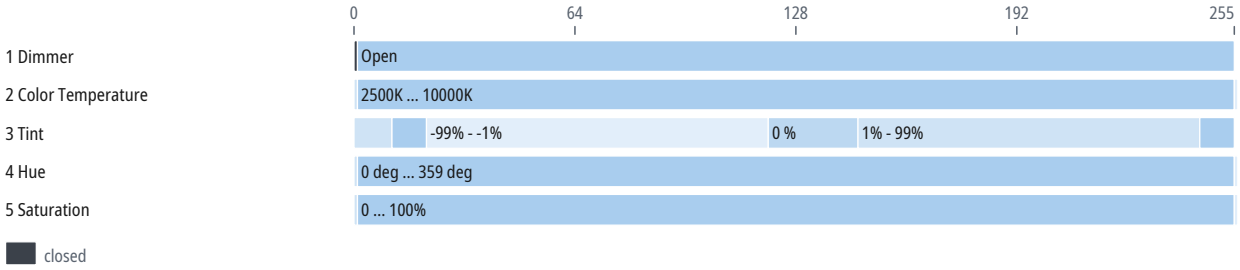


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “xy 16bit Mode” (p. 16)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	CIE X		Same as CH 3 in the mode “xy 16bit Mode” (p. 16)
4	CIE X Fine	0–255	Fine adjustment of CH 3
5	CIE Y		Same as CH 5 in the mode “xy 16bit Mode” (p. 16)
6	CIE Y Fine	0–255	Fine adjustment of CH 5
7	Color XF		Same as CH 4 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
8	Control 2		Same as CH 5 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
9	Color Effects		Same as CH 6 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
10	Play Speed		Same as CH 7 in the mode “CCT+ Control /FX -8bit Mode” (p. 12)
11	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
12	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
13	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode Limited HSIC+ 8bit Mode

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

Channel functions at a glance



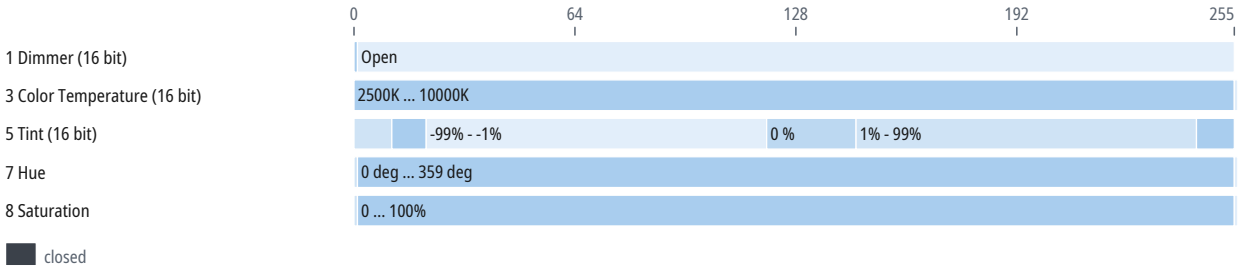
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Color Temperature		Same as CH 2 in the mode “CCT+ 8bit Mode” (p. 8)
3	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
4	Hue	0	0 deg
		1–254	0 deg ... 359 deg
		255	359 deg
5	Saturation	0	0
		1–254	0 ... 100%
		255	100%

Mode Limited HSIC+ 16bit Mode

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



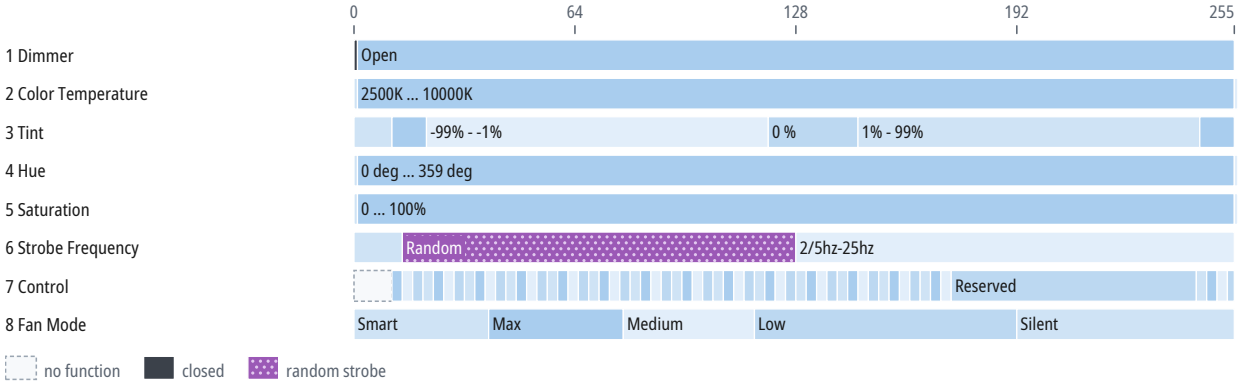
CH	Function	DMX	Description
1	Dimmer	0	Closed ... open
		1–255	Open
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “CCT+ 16bit Mode” (p. 9)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)

CH	Function	DMX	Description
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Hue		Same as CH 4 in the mode “Limited HSIC+ 8bit Mode” (p. 20)
8	Saturation		Same as CH 5 in the mode “Limited HSIC+ 8bit Mode” (p. 20)

Mode Limited HSIC+Control 8bit Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 6 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance



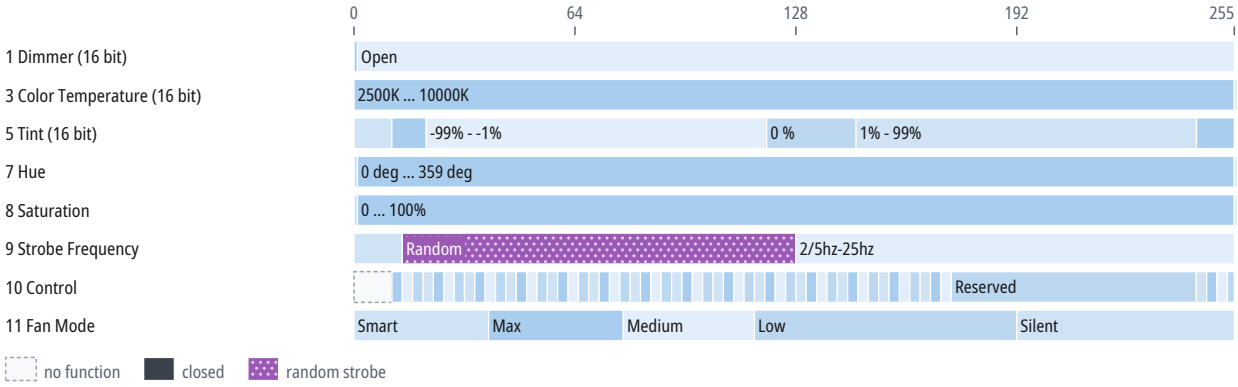
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Color Temperature		Same as CH 2 in the mode “CCT+ 8bit Mode” (p. 8)
3	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
4	Hue		Same as CH 4 in the mode “Limited HSIC+ 8bit Mode” (p. 20)
5	Saturation		Same as CH 5 in the mode “Limited HSIC+ 8bit Mode” (p. 20)
6	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
7	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
8	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode Limited HSIC+Control 16bit Mode

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; CH 9 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance

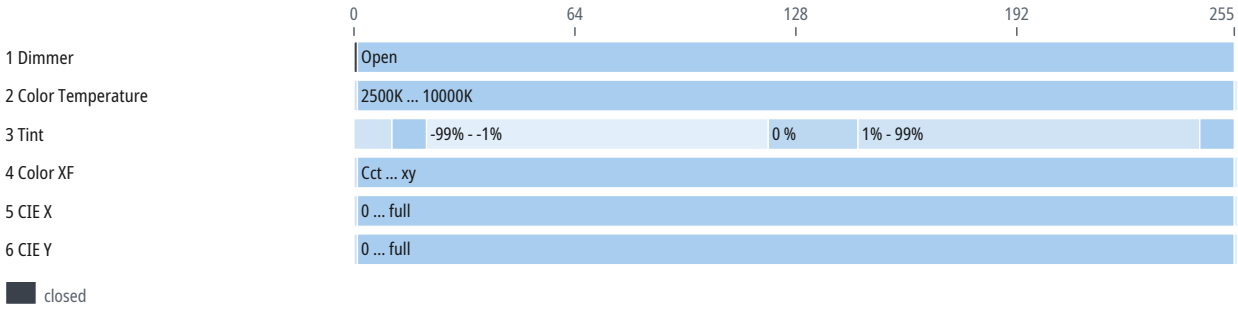


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Limited HSIC+ 16bit Mode” (p. 20)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “CCT+ 16bit Mode” (p. 9)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Hue		Same as CH 4 in the mode “Limited HSIC+ 8bit Mode” (p. 20)
8	Saturation		Same as CH 5 in the mode “Limited HSIC+ 8bit Mode” (p. 20)
9	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
10	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
11	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode CCT/xy 8bit Mode

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

Channel functions at a glance



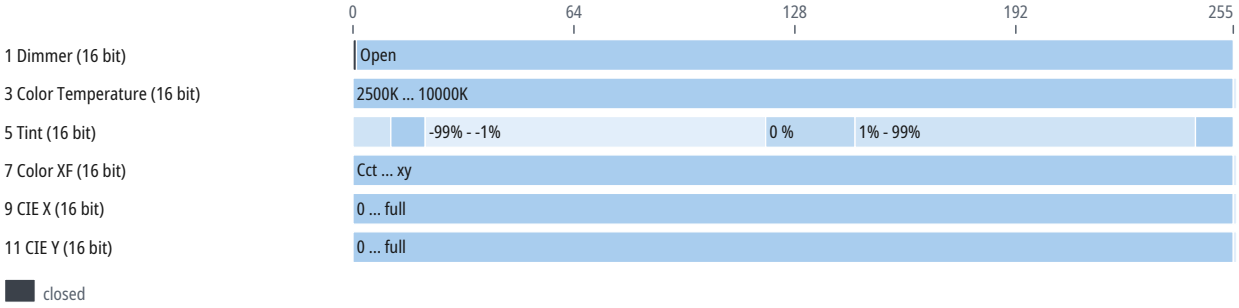
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Color Temperature		Same as CH 2 in the mode “CCT+ 8bit Mode” (p. 8)
3	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
4	Color XF	0	Cct
		1–254	Cct ... xy
		255	Xy
5	CIE X		Same as CH 2 in the mode “xy 8bit Mode” (p. 16)
6	CIE Y		Same as CH 3 in the mode “xy 8bit Mode” (p. 16)

Mode CCT/xy 16bit Mode

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

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

Channel functions at a glance

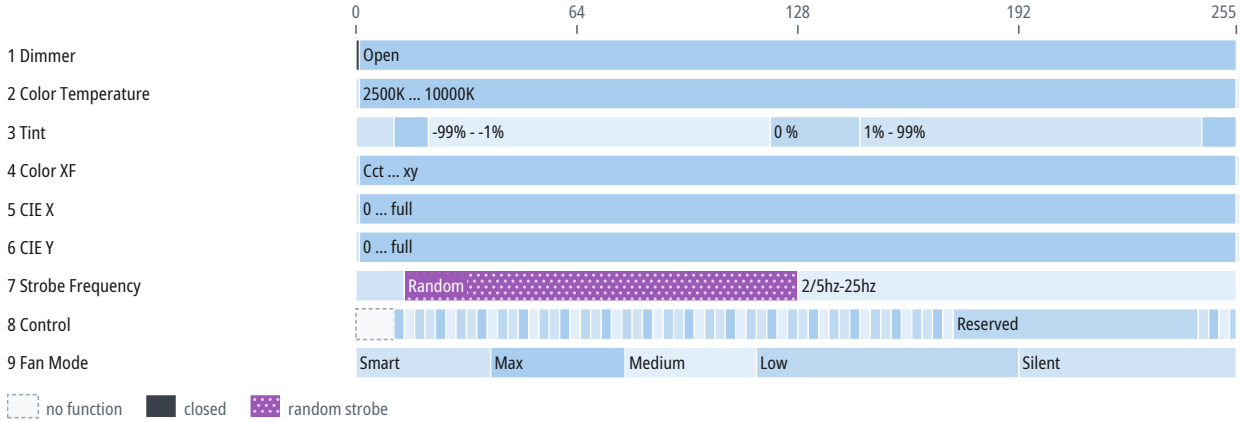


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “CCT+ 16bit Mode” (p. 9)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Color XF	0–255	Cct ... xy
		255	Xy
8	Color XF Fine	0–255	Fine adjustment of CH 7
9	CIE X		Same as CH 3 in the mode “xy 16bit Mode” (p. 16)
10	CIE X Fine	0–255	Fine adjustment of CH 9
11	CIE Y		Same as CH 5 in the mode “xy 16bit Mode” (p. 16)
12	CIE Y Fine	0–255	Fine adjustment of CH 11

Mode CCT/xy+Control 8bit Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 7 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance



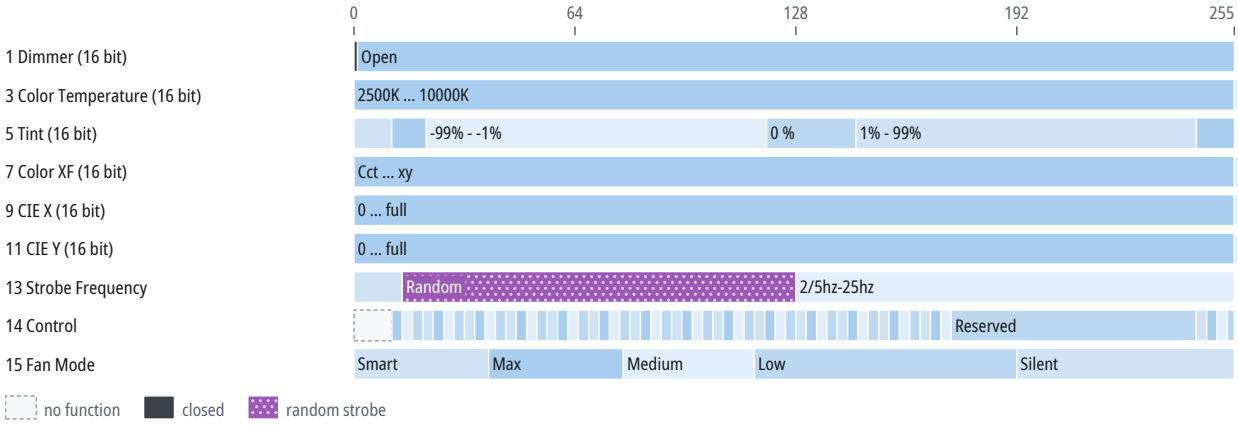
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Color Temperature		Same as CH 2 in the mode “CCT+ 8bit Mode” (p. 8)
3	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
4	Color XF		Same as CH 4 in the mode “CCT/xy 8bit Mode” (p. 23)
5	CIE X		Same as CH 2 in the mode “xy 8bit Mode” (p. 16)
6	CIE Y		Same as CH 3 in the mode “xy 8bit Mode” (p. 16)
7	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
8	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
9	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode CCT/xy+Control 16bit Mode

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; CH 13 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance

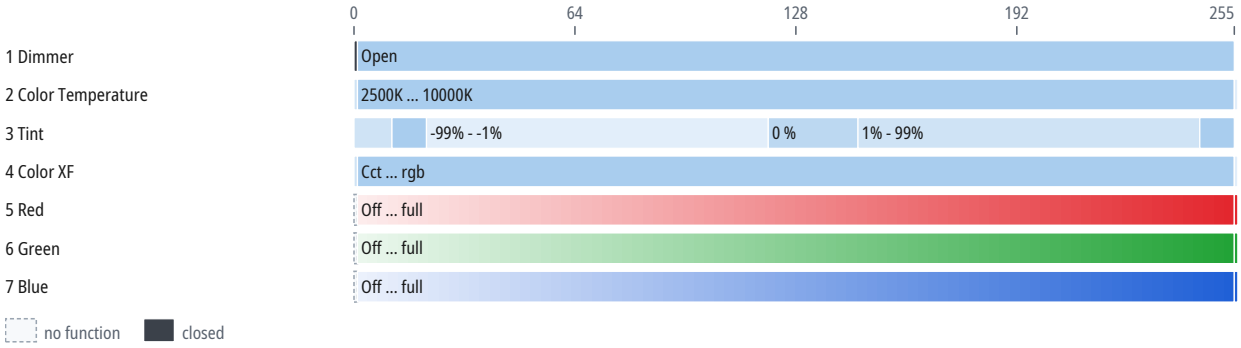


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “CCT+ 16bit Mode” (p. 9)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Color XF		Same as CH 7 in the mode “CCT/xy 16bit Mode” (p. 23)
8	Color XF Fine	0–255	Fine adjustment of CH 7
9	CIE X		Same as CH 3 in the mode “xy 16bit Mode” (p. 16)
10	CIE X Fine	0–255	Fine adjustment of CH 9
11	CIE Y		Same as CH 5 in the mode “xy 16bit Mode” (p. 16)
12	CIE Y Fine	0–255	Fine adjustment of CH 11
13	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
14	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
15	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode Limited CCT/RGB 8bit Mode

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

Channel functions at a glance



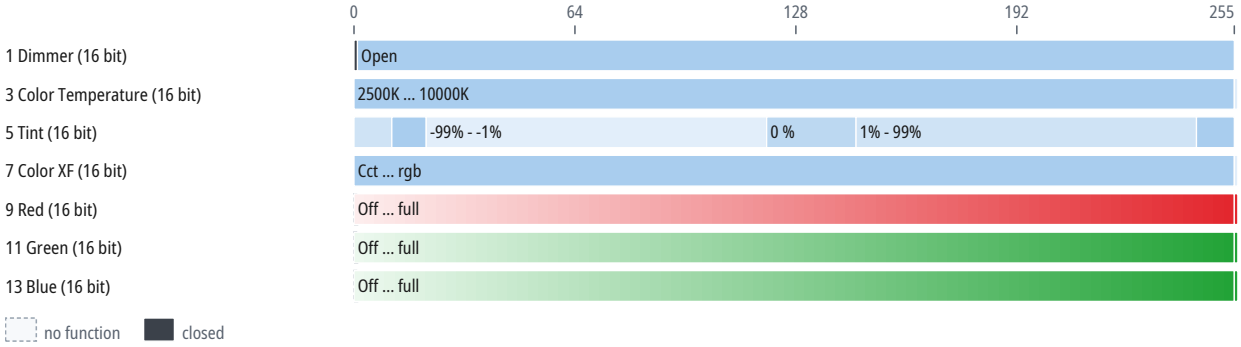
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Color Temperature		Same as CH 2 in the mode “CCT+ 8bit Mode” (p. 8)
3	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
4	Color XF	0	Cct
		1–254	Cct ... rgb
		255	Rgb
5	Red	0	Off
		1–254	Off ... full
		255	Full
6	Green	0	Off
		1–254	Off ... full
		255	Full
7	Blue	0	Off
		1–254	Off ... full
		255	Full

Mode Limited CCT/RGB 16bit Mode

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

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

Channel functions at a glance

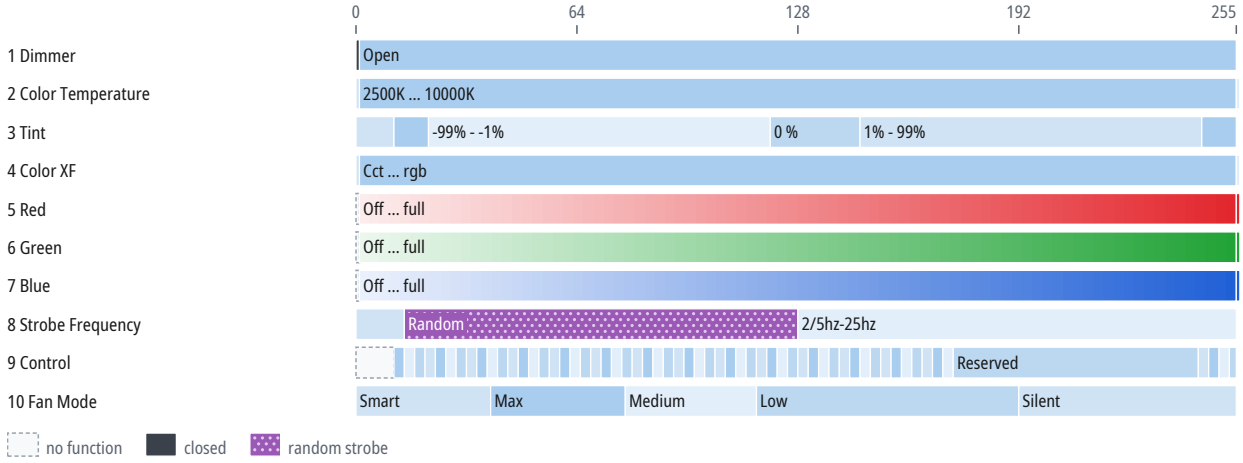


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “CCT+ 16bit Mode” (p. 9)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Color XF	0–255	Cct ... rgb
		255	Rgb
8	Color XF Fine	0–255	Fine adjustment of CH 7
9	Red	0–255	Off ... full
		255	Full
10	Red Fine	0–255	Fine adjustment of CH 9
11	Green	0–255	Off ... full
		255	Full
12	Green Fine	0–255	Fine adjustment of CH 11
13	Blue	0–255	Off ... full
		255	Full
14	Blue Fine	0–255	Fine adjustment of CH 13

Mode Limited CCT/RGB+Control 8bit Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 8 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

Channel functions at a glance



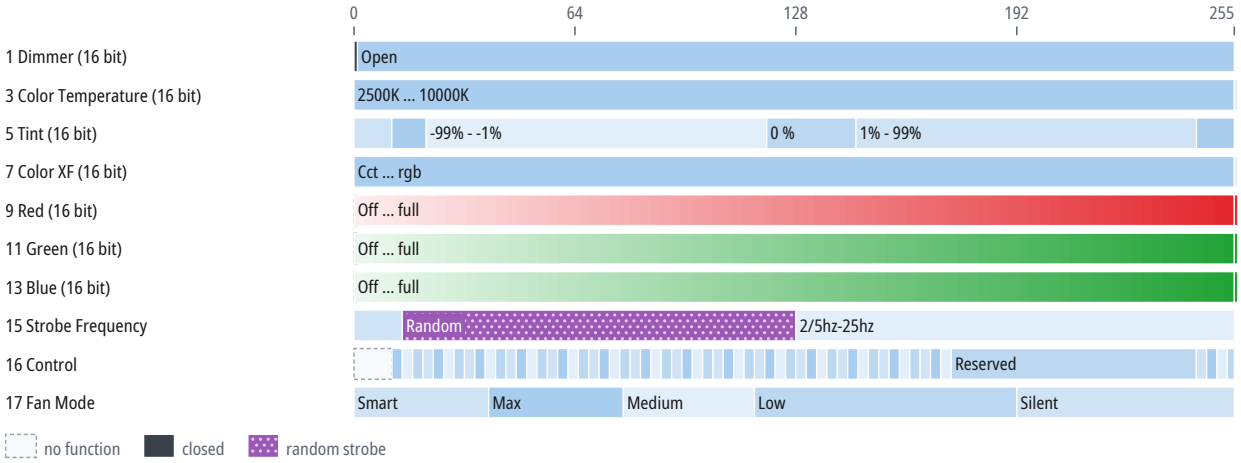
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Color Temperature		Same as CH 2 in the mode “CCT+ 8bit Mode” (p. 8)
3	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
4	Color XF		Same as CH 4 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
5	Red		Same as CH 5 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
6	Green		Same as CH 6 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
7	Blue		Same as CH 7 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
8	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
9	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
10	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode Limited CCT/RGB+Control 16bit Mode

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; CH 15 Strobe Frequency at 0–13 “no effect”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255.

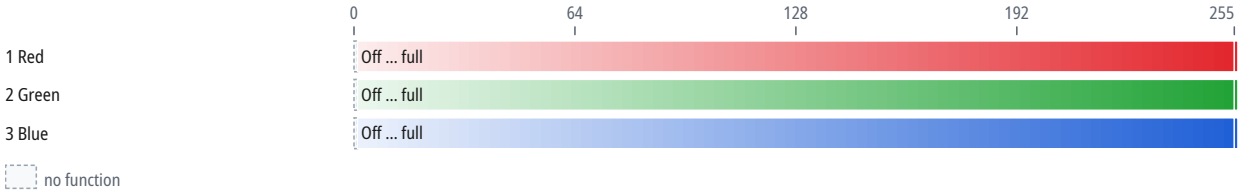
Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “CCT+ 8bit Mode” (p. 8)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Color Temperature		Same as CH 3 in the mode “CCT+ 16bit Mode” (p. 9)
4	Color Temperature Fine	0–255	Fine adjustment of CH 3
5	Tint		Same as CH 3 in the mode “CCT+ 8bit Mode” (p. 8)
6	Tint Fine	0–255	Fine adjustment of CH 5
7	Color XF		Same as CH 7 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
8	Color XF Fine	0–255	Fine adjustment of CH 7
9	Red		Same as CH 9 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
10	Red Fine	0–255	Fine adjustment of CH 9
11	Green		Same as CH 11 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
12	Green Fine	0–255	Fine adjustment of CH 11
13	Blue		Same as CH 13 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
14	Blue Fine	0–255	Fine adjustment of CH 13
15	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
16	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
17	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode RGB 8bit Mode

Channel functions at a glance

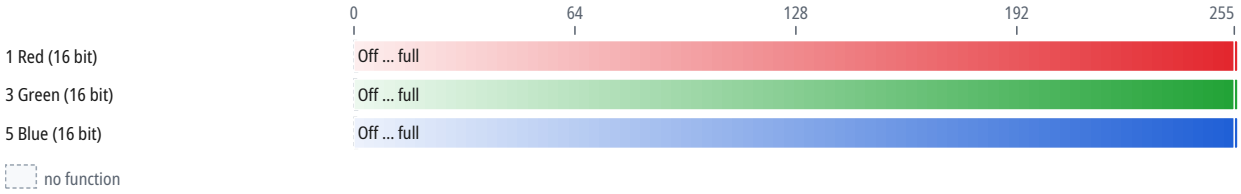


CH	Function	DMX	Description
1	Red		Same as CH 5 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
2	Green		Same as CH 6 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
3	Blue		Same as CH 7 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)

Mode RGB 16bit Mode

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

Channel functions at a glance

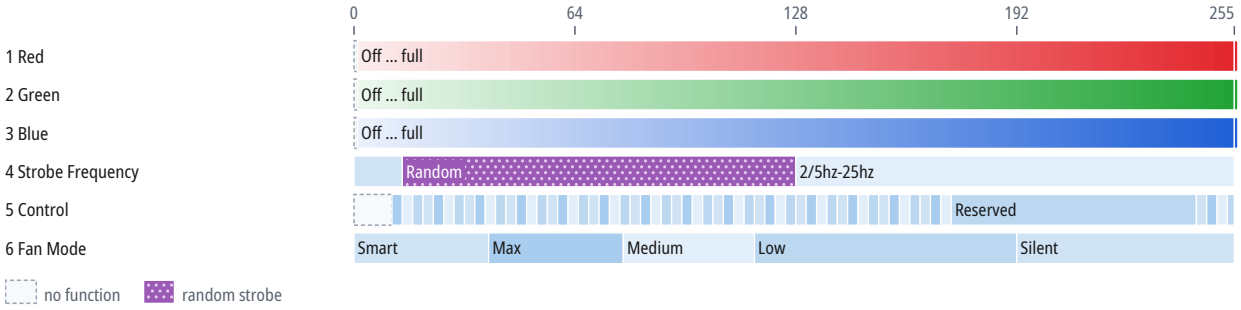


CH	Function	DMX	Description
1	Red		Same as CH 9 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
2	Red Fine	0–255	Fine adjustment of CH 1
3	Green		Same as CH 11 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
4	Green Fine	0–255	Fine adjustment of CH 3
5	Blue		Same as CH 13 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
6	Blue Fine	0–255	Fine adjustment of CH 5

Mode RGB+Control 8bit Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 4 Strobe Frequency at 0–13 “no effect”.

Channel functions at a glance



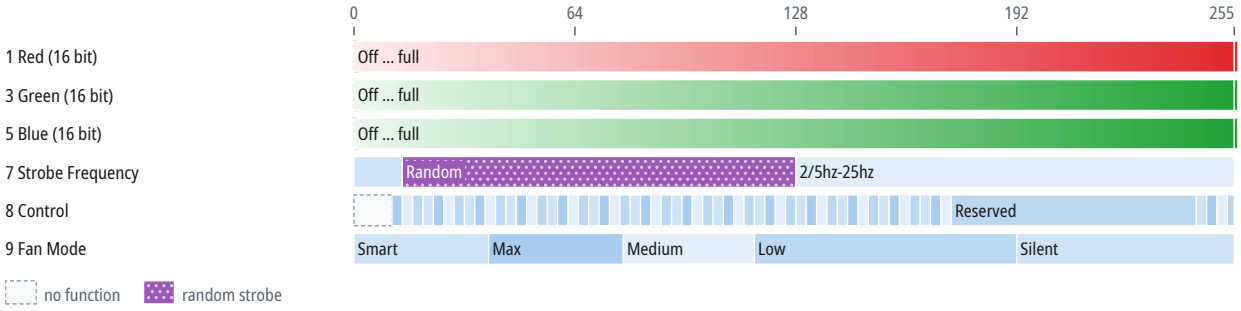
CH	Function	DMX	Description
1	Red		Same as CH 5 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
2	Green		Same as CH 6 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
3	Blue		Same as CH 7 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
4	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
5	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
6	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode RGB+Control 16bit Mode

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 7 Strobe Frequency at 0–13 “no effect”.

Channel functions at a glance

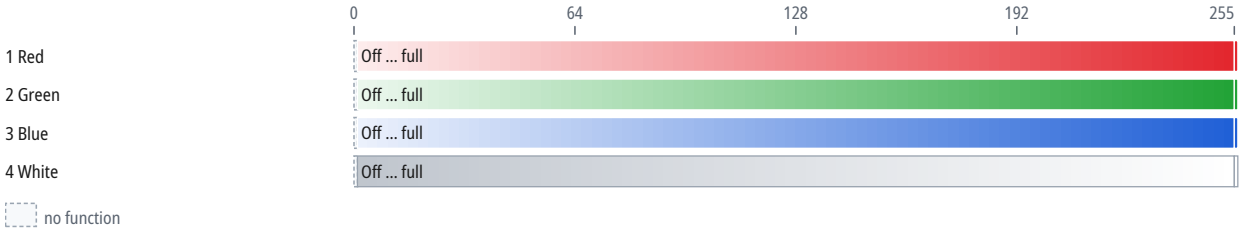


CH	Function	DMX	Description
1	Red		Same as CH 9 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
2	Red Fine	0–255	Fine adjustment of CH 1
3	Green		Same as CH 11 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)

CH	Function	DMX	Description
4	Green Fine	0–255	Fine adjustment of CH 3
5	Blue		Same as CH 13 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
6	Blue Fine	0–255	Fine adjustment of CH 5
7	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
8	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
9	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode RGBA 8bit Mode

Channel functions at a glance

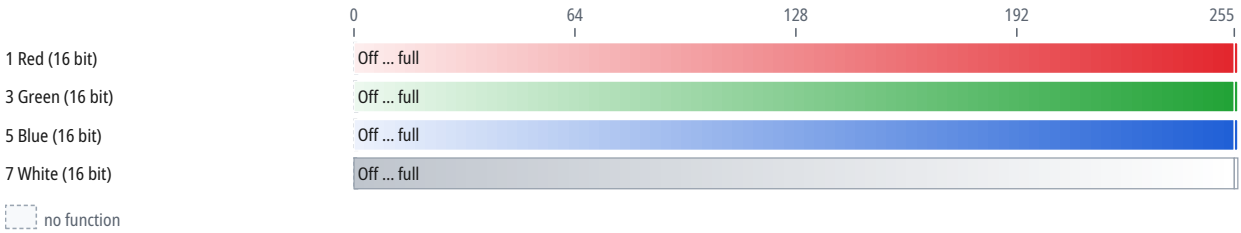


CH	Function	DMX	Description
1	Red		Same as CH 5 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
2	Green		Same as CH 6 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
3	Blue		Same as CH 7 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
4	White	0	Off
		1–254	Off ... full
		255	Full

Mode RGBA 16bit Mode

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

Channel functions at a glance

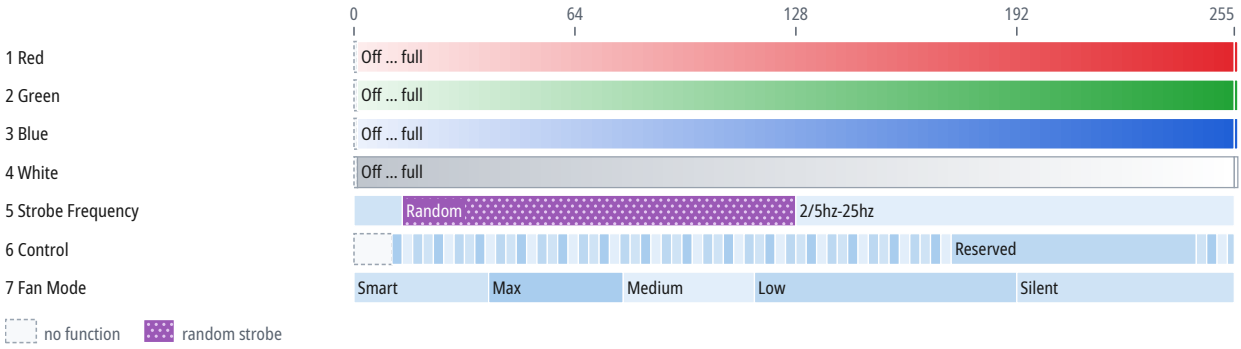


CH	Function	DMX	Description
1	Red		Same as CH 9 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
2	Red Fine	0–255	Fine adjustment of CH 1
3	Green		Same as CH 11 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
4	Green Fine	0–255	Fine adjustment of CH 3
5	Blue		Same as CH 13 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
6	Blue Fine	0–255	Fine adjustment of CH 5
7	White	0–255	Off … full
		255	Full
8	White Fine	0–255	Fine adjustment of CH 7

Mode RGBA+Control 8bit Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 5 Strobe Frequency at 0–13 “no effect”.

Channel functions at a glance



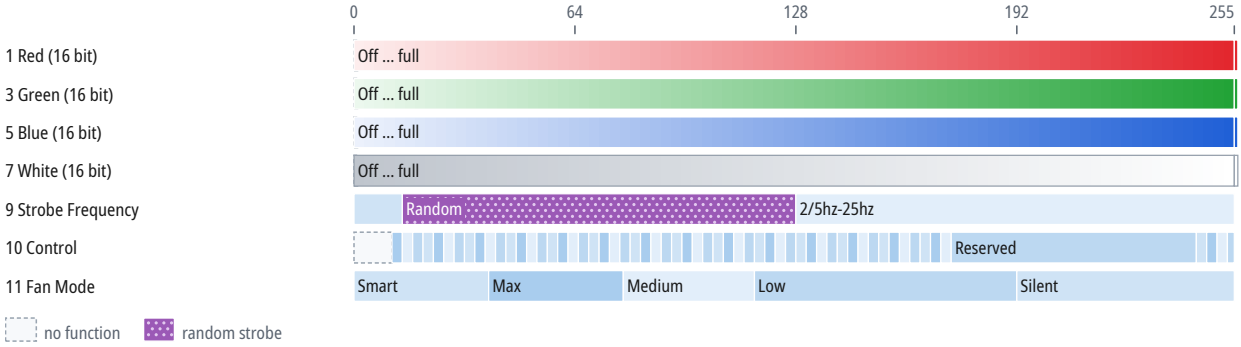
CH	Function	DMX	Description
1	Red		Same as CH 5 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
2	Green		Same as CH 6 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
3	Blue		Same as CH 7 in the mode “Limited CCT/RGB 8bit Mode” (p. 26)
4	White		Same as CH 4 in the mode “RGBA 8bit Mode” (p. 32)
5	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
6	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
7	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

Mode RGBA+Control 16bit Mode

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 9 Strobe Frequency at 0–13 “no effect”.

Channel functions at a glance



CH	Function	DMX	Description
1	Red		Same as CH 9 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
2	Red Fine	0–255	Fine adjustment of CH 1
3	Green		Same as CH 11 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
4	Green Fine	0–255	Fine adjustment of CH 3
5	Blue		Same as CH 13 in the mode “Limited CCT/RGB 16bit Mode” (p. 27)
6	Blue Fine	0–255	Fine adjustment of CH 5
7	White		Same as CH 7 in the mode “RGBA 16bit Mode” (p. 33)
8	White Fine	0–255	Fine adjustment of CH 7
9	Strobe Frequency		Same as CH 4 in the mode “CCT+Control 8bit Mode” (p. 9)
10	Control		Same as CH 9 in the mode “CCT+ Control /FX -8bit Mode” (p. 13)
11	Fan Mode		Same as CH 6 in the mode “CCT+Control 8bit Mode” (p. 11)

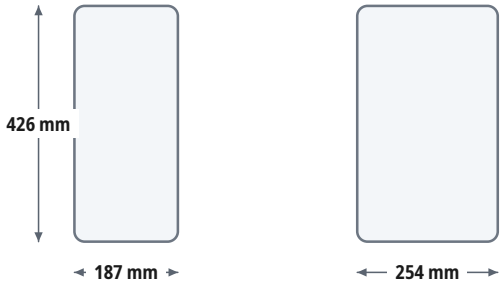
9 Technical specifications

Parameter	Value
Operating temperature	-20 to 45 °C

Speeds and ranges

Parameter	Value
Color temperature range	2500–10000 K

Dimensions



10 Maintenance and cleaning

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

11 Troubleshooting

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

12 Disposal

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

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

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

Recycle the packaging materials according to their type.