GDTF Fixture Reference · by SOH

DMX REFERENCE

DS3

Digital Sputnik DS3

Digital Sputnik



Manufacturer	Digital Sputnik
GDTF file	Digital_Sputnik_DS3_78284.gdtf
GDTF revision	Revision 1 - v2_67_5 · 2024-11-13
Generated	2026-11-23

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1 About this manual

This document describes the Digital Sputnik DS3 by Digital Sputnik. It was compiled from the GDTF file Digital_Sputnik_DS3_78284.gdtf from the GDTF-Share library.

File revision: “Revision 1 - v2_67_5”.

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 Digital Sputnik; 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
ITSH16 - Individual Control	30	17	1, 31, 61, 91, ...
ITSH8 - Individual Control	15	34	1, 16, 31, 46, ...
XFade16 - Individual Control	48	10	1, 49, 97, 145, ...
XFade8 - Individual Control	27	18	1, 28, 55, 82, ...
iRGB8 - Individual Control	18	28	1, 19, 37, 55, ...
RGB8 - Individual Control	12	42	1, 13, 25, 37, ...
ARRI6 - Individual Control	60	8	1, 61, 121, 181, ...
ARRI1 - Individual Control	36	14	1, 37, 73, 109, ...

No light? Check these channels

- ITSH16 - Individual Control: CH 1 Dimmer 1 above 0; CH 11 Dimmer 2 above 0; CH 21 Dimmer 3 above 0
- ITSH8 - Individual Control: CH 1 Dimmer 1 above 0; CH 6 Dimmer 2 above 0; CH 11 Dimmer 3 above 0
- XFade16 - Individual Control: CH 1 Dimmer 1 above 0; CH 17 Dimmer 2 above 0; CH 33 Dimmer 3 above 0
- XFade8 - Individual Control: CH 1 Dimmer 1 above 0; CH 10 Dimmer 2 above 0; CH 19 Dimmer 3 above 0
- iRGB8 - Individual Control: CH 1 Dimmer 1 above 0; CH 7 Dimmer 2 above 0; CH 13 Dimmer 3 above 0
- ARRI6 - Individual Control: CH 1 Dimmer 1 above 0; CH 21 Dimmer 2 above 0; CH 41 Dimmer 3 above 0
- ARRI1 - Individual Control: CH 1 Dimmer 1 above 0; CH 13 Dimmer 2 above 0; CH 25 Dimmer 3 above 0



Read the manual before use



Do not stare into the light



Indoor use only

3 Safety instructions



Read the manual before use



Do not stare into the light



Indoor use only

⚠ WARNING

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

⚠ WARNING

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

⚠ CAUTION

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

4 Installation

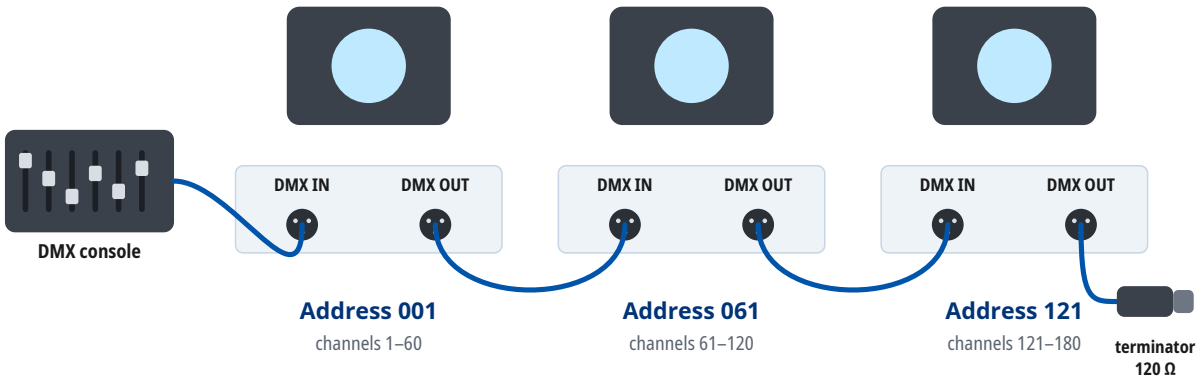
⚠ WARNING

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- 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 ARRI6 - Individual Control: every unit occupies 60 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

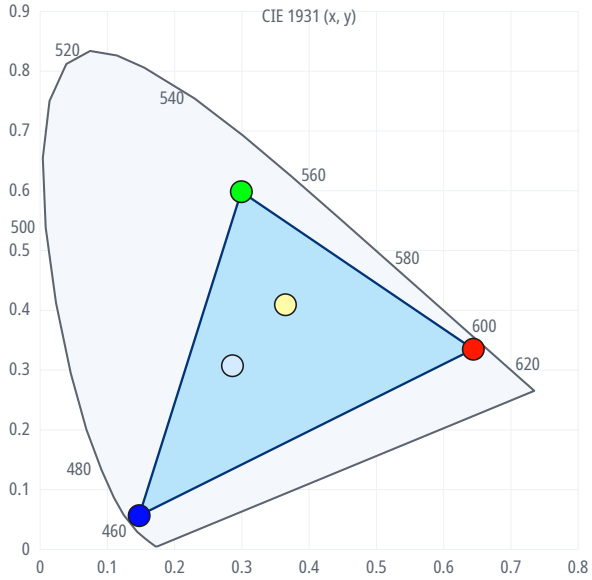
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “ARRI6 - Individual Control”: 60.
- Choose start addresses so that the channels of individual devices do not overlap and 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 “ARRI6 - Individual Control”, you can use, for example, the start addresses 1, 61, 121, 181.
- 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

	ITSH16 - Individual Control 30 channels	ITSH8 - Individual Control 15 channels	XFade16 - Individual Control 48 channels	XFade8 - Individual Control 27 channels	iRGB8 - Individual Control 18 channels	RGB8 - Individual Control 12 channels	ARRI6 - Individual Control 60 channels	ARRI1 - Individual Control 36 channels
Dimmer	**1, 11, 21**	**1, 6, 11**	**1, 17, 33**	**1, 10, 19**	**1, 7, 13**		**1, 21, 41**	**1, 13, 25**
Dimmer resolution	16 bit	8 bit	16 bit	8 bit	8 bit		16 bit	8 bit
Color mixing			12 channels (9–47)	5–8, 14–17, 23–26	2–4, 8–10, 14–16	1–3, 5–7, 9–11	12 channels (9–55)	5–8, 17–20, 29–32
Color temperature	**3, 13, 23**	**2, 7, 12**	**3, 19, 35**	**2, 11, 20**	**5, 11, 17**	**4, 8, 12**	**3, 23, 43**	**2, 14, 26**

LED colors and the colors they mix



LED	x	y
Red	0.644	0.335
Green	0.299	0.598
Blue	0.147	0.057
Warm White	0.365	0.409
Cool White	0.286	0.307

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

8 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “ARRI6 - Individual Control”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	301	11	U2 · 121	16	U2 · 421
2	61	7	361	12	U2 · 181	17	U3 · 1
3	121	8	421	13	U2 · 241	18	U3 · 61
4	181	9	U2 · 1	14	U2 · 301	19	U3 · 121
5	241	10	U2 · 61	15	U2 · 361	20	U3 · 181

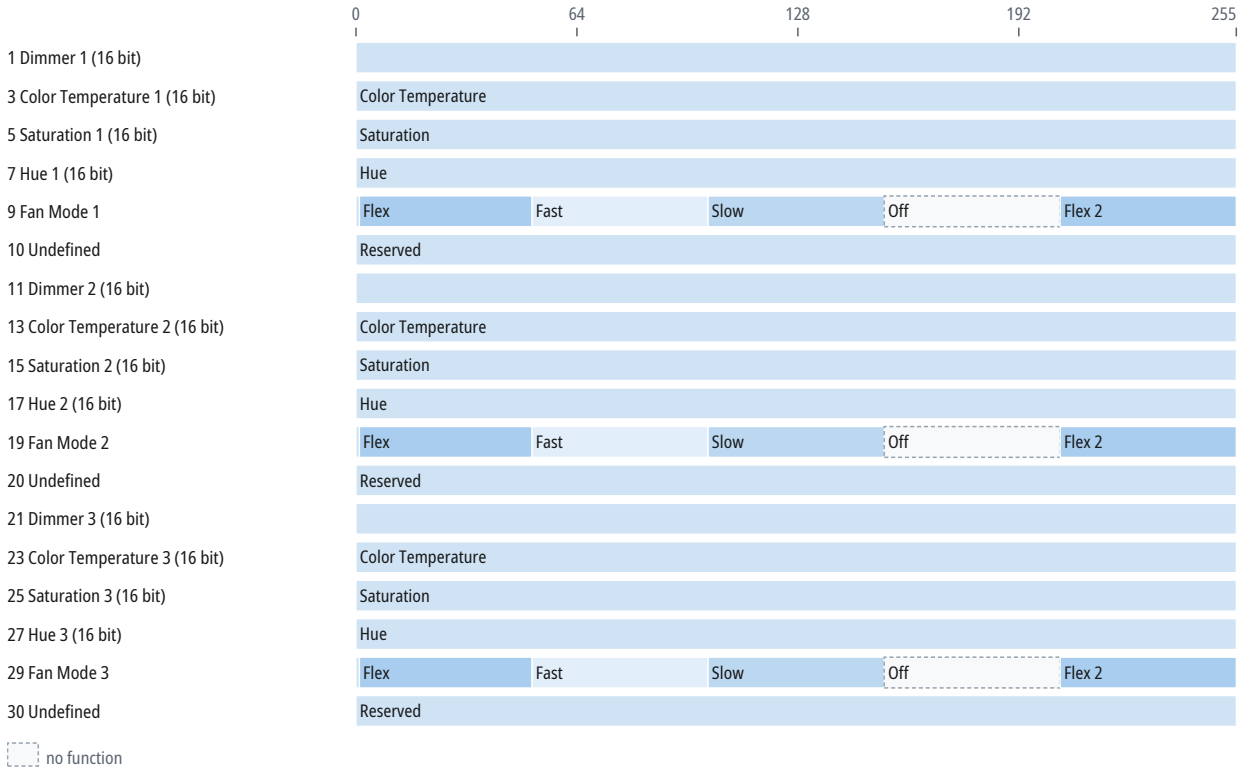
Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode ITSH16 - Individual Control

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

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 11 Dimmer 2 above 0; CH 21 Dimmer 3 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 3 Color Temperature 1 255, CH 11 Dimmer 2 255, CH 13 Color Temperature 2 255, CH 21 Dimmer 3 255, CH 23 Color Temperature 3 255.

Channel functions at a glance



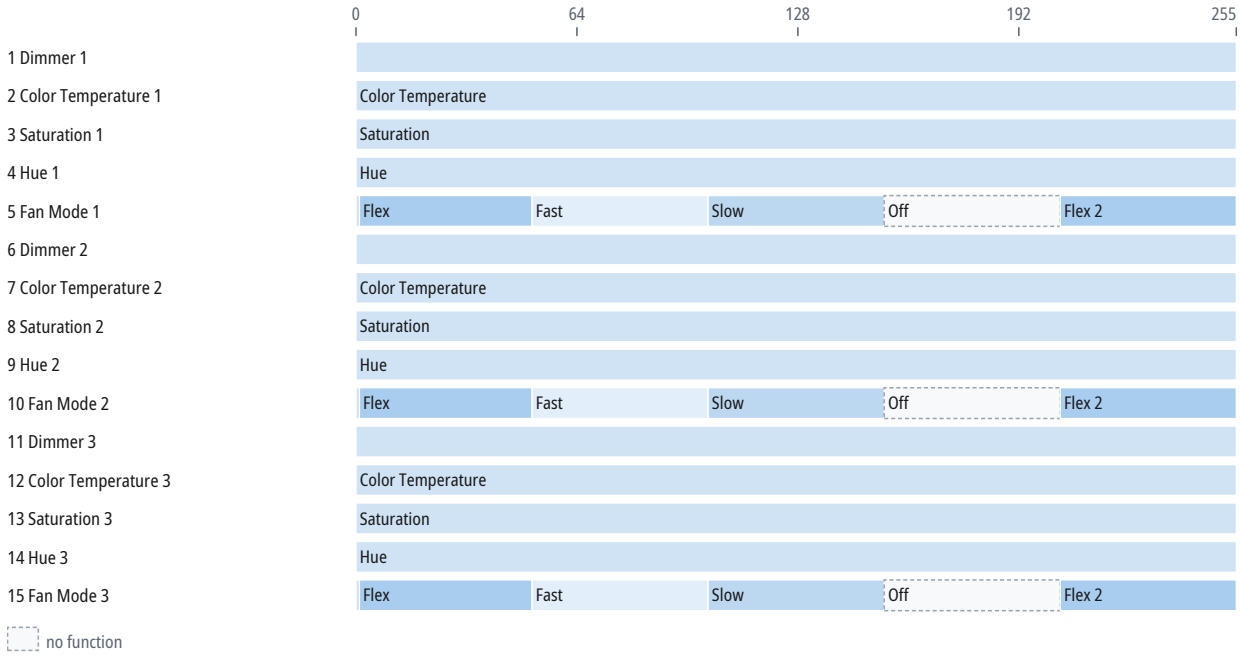
CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Color Temperature 1		Color Temperature
		0–255	Color Temperature (1500–10000 K)
4	Color Temperature 1 Fine	0–255	Fine adjustment of CH 3
5	Saturation 1	0–255	Saturation
6	Saturation 1 Fine	0–255	Fine adjustment of CH 5
7	Hue 1	0–255	Hue
8	Hue 1 Fine	0–255	Fine adjustment of CH 7
9	Fan Mode 1	0	Manual
		1–50	Flex
		51–101	Fast
		102–152	Slow
		153–203	Off
		204–255	Flex 2

CH	Function	DMX	Description
10	Undefined	0–255	Reserved
11	Dimmer 2	0–255	
12	Dimmer 2 Fine	0–255	Fine adjustment of CH 11
13	Color Temperature 2		Color Temperature
		0–255	Color Temperature (1500–10000 K)
14	Color Temperature 2 Fine	0–255	Fine adjustment of CH 13
15	Saturation 2	0–255	Saturation
16	Saturation 2 Fine	0–255	Fine adjustment of CH 15
17	Hue 2	0–255	Hue
18	Hue 2 Fine	0–255	Fine adjustment of CH 17
19	Fan Mode 2	0	Manual
		1–50	Flex
		51–101	Fast
		102–152	Slow
		153–203	Off
		204–255	Flex 2
20	Undefined	0–255	Reserved
21	Dimmer 3	0–255	
22	Dimmer 3 Fine	0–255	Fine adjustment of CH 21
23	Color Temperature 3		Color Temperature
		0–255	Color Temperature (1500–10000 K)
24	Color Temperature 3 Fine	0–255	Fine adjustment of CH 23
25	Saturation 3	0–255	Saturation
26	Saturation 3 Fine	0–255	Fine adjustment of CH 25
27	Hue 3	0–255	Hue
28	Hue 3 Fine	0–255	Fine adjustment of CH 27
29	Fan Mode 3	0	Manual
		1–50	Flex
		51–101	Fast
		102–152	Slow
		153–203	Off
		204–255	Flex 2
30	Undefined	0–255	Reserved

Mode ITSH8 - Individual Control

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 6 Dimmer 2 above 0; CH 11 Dimmer 3 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Color Temperature 1 255, CH 6 Dimmer 2 255, CH 7 Color Temperature 2 255, CH 11 Dimmer 3 255, CH 12 Color Temperature 3 255.

Channel functions at a glance



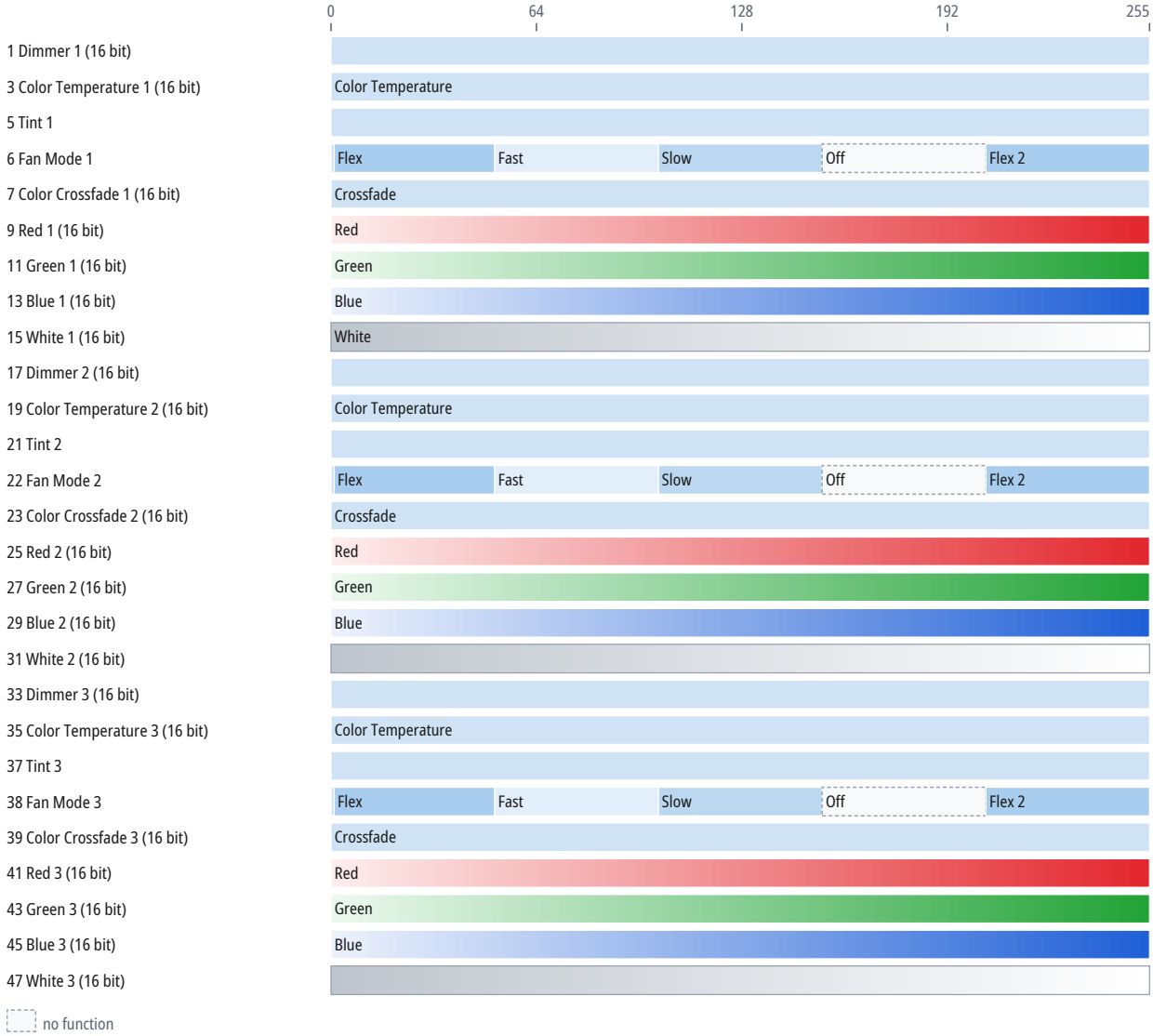
CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Color Temperature 1		Same as CH 3 in the mode “ITSH16 - Individual Control” (p. 8)
3	Saturation 1	0–255	Saturation
4	Hue 1	0–255	Hue
5	Fan Mode 1		Same as CH 9 in the mode “ITSH16 - Individual Control” (p. 8)
6	Dimmer 2	0–255	
7	Color Temperature 2		Same as CH 13 in the mode “ITSH16 - Individual Control” (p. 9)
8	Saturation 2	0–255	Saturation
9	Hue 2	0–255	Hue
10	Fan Mode 2		Same as CH 19 in the mode “ITSH16 - Individual Control” (p. 9)
11	Dimmer 3	0–255	
12	Color Temperature 3		Same as CH 23 in the mode “ITSH16 - Individual Control” (p. 9)
13	Saturation 3	0–255	Saturation
14	Hue 3	0–255	Hue
15	Fan Mode 3		Same as CH 29 in the mode “ITSH16 - Individual Control” (p. 9)

Mode XFade16 - Individual Control

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

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 17 Dimmer 2 above 0; CH 33 Dimmer 3 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 0, CH 3 Color Temperature 1 255, CH 15 White 1 255, CH 17 Dimmer 2 0, CH 19 Color Temperature 2 255, CH 31 White 2 255, CH 33 Dimmer 3 0, CH 35 Color Temperature 3 255, CH 47 White 3 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Color Temperature 1		Same as CH 3 in the mode “ITSH16 - Individual Control” (p. 8)
4	Color Temperature 1 Fine	0–255	Fine adjustment of CH 3
5	Tint 1	0–255	
6	Fan Mode 1		Same as CH 9 in the mode “ITSH16 - Individual Control” (p. 8)

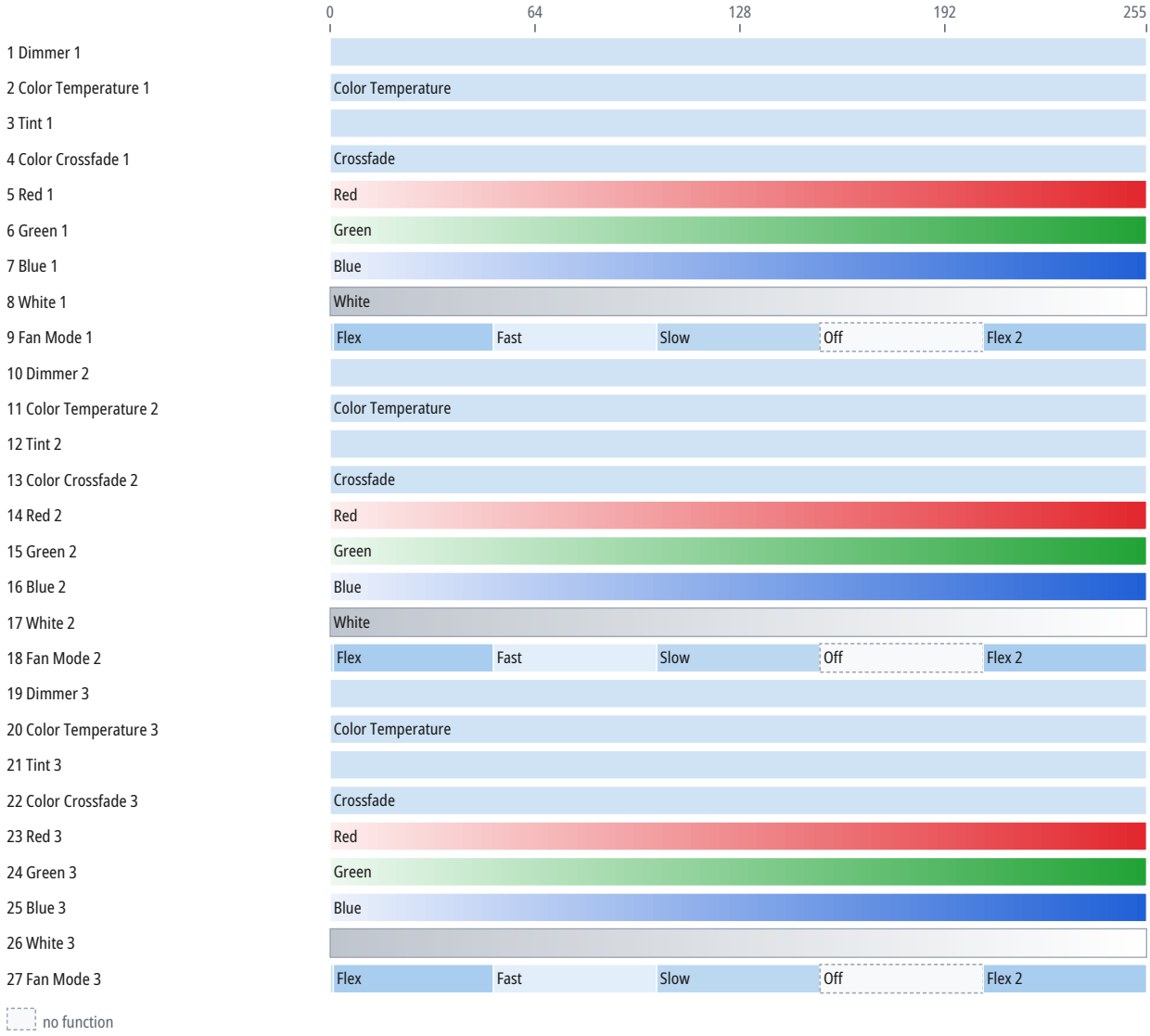
CH	Function	DMX	Description
7	Color Crossfade 1	0–255	Crossfade
8	Color Crossfade 1 Fine	0–255	Fine adjustment of CH 7
9	Red 1	0–255	Red
10	Red 1 Fine	0–255	Fine adjustment of CH 9
11	Green 1	0–255	Green
12	Green 1 Fine	0–255	Fine adjustment of CH 11
13	Blue 1	0–255	Blue
14	Blue 1 Fine	0–255	Fine adjustment of CH 13
15	White 1	0–255	White
16	White 1 Fine	0–255	Fine adjustment of CH 15
17	Dimmer 2	0–255	
18	Dimmer 2 Fine	0–255	Fine adjustment of CH 17
19	Color Temperature 2		Same as CH 13 in the mode “ITSH16 - Individual Control” (p. 9)
20	Color Temperature 2 Fine	0–255	Fine adjustment of CH 19
21	Tint 2	0–255	
22	Fan Mode 2		Same as CH 19 in the mode “ITSH16 - Individual Control” (p. 9)
23	Color Crossfade 2	0–255	Crossfade
24	Color Crossfade 2 Fine	0–255	Fine adjustment of CH 23
25	Red 2	0–255	Red
26	Red 2 Fine	0–255	Fine adjustment of CH 25
27	Green 2	0–255	Green
28	Green 2 Fine	0–255	Fine adjustment of CH 27
29	Blue 2	0–255	Blue
30	Blue 2 Fine	0–255	Fine adjustment of CH 29
31	White 2	0–255	
32	White 2 Fine	0–255	Fine adjustment of CH 31
33	Dimmer 3	0–255	
34	Dimmer 3 Fine	0–255	Fine adjustment of CH 33
35	Color Temperature 3		Same as CH 23 in the mode “ITSH16 - Individual Control” (p. 9)
36	Color Temperature 3 Fine	0–255	Fine adjustment of CH 35
37	Tint 3	0–255	
38	Fan Mode 3		Same as CH 29 in the mode “ITSH16 - Individual Control” (p. 9)
39	Color Crossfade 3	0–255	Crossfade
40	Color Crossfade 3 Fine	0–255	Fine adjustment of CH 39
41	Red 3	0–255	Red
42	Red 3 Fine	0–255	Fine adjustment of CH 41
43	Green 3	0–255	Green
44	Green 3 Fine	0–255	Fine adjustment of CH 43

CH	Function	DMX	Description
45	Blue 3	0–255	Blue
46	Blue 3 Fine	0–255	Fine adjustment of CH 45
47	White 3	0–255	
48	White 3 Fine	0–255	Fine adjustment of CH 47

Mode XFade8 - Individual Control

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 10 Dimmer 2 above 0; CH 19 Dimmer 3 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 0, CH 2 Color Temperature 1 255, CH 8 White 1 255, CH 10 Dimmer 2 0, CH 11 Color Temperature 2 255, CH 17 White 2 255, CH 19 Dimmer 3 0, CH 20 Color Temperature 3 255, CH 26 White 3 255.

Channel functions at a glance

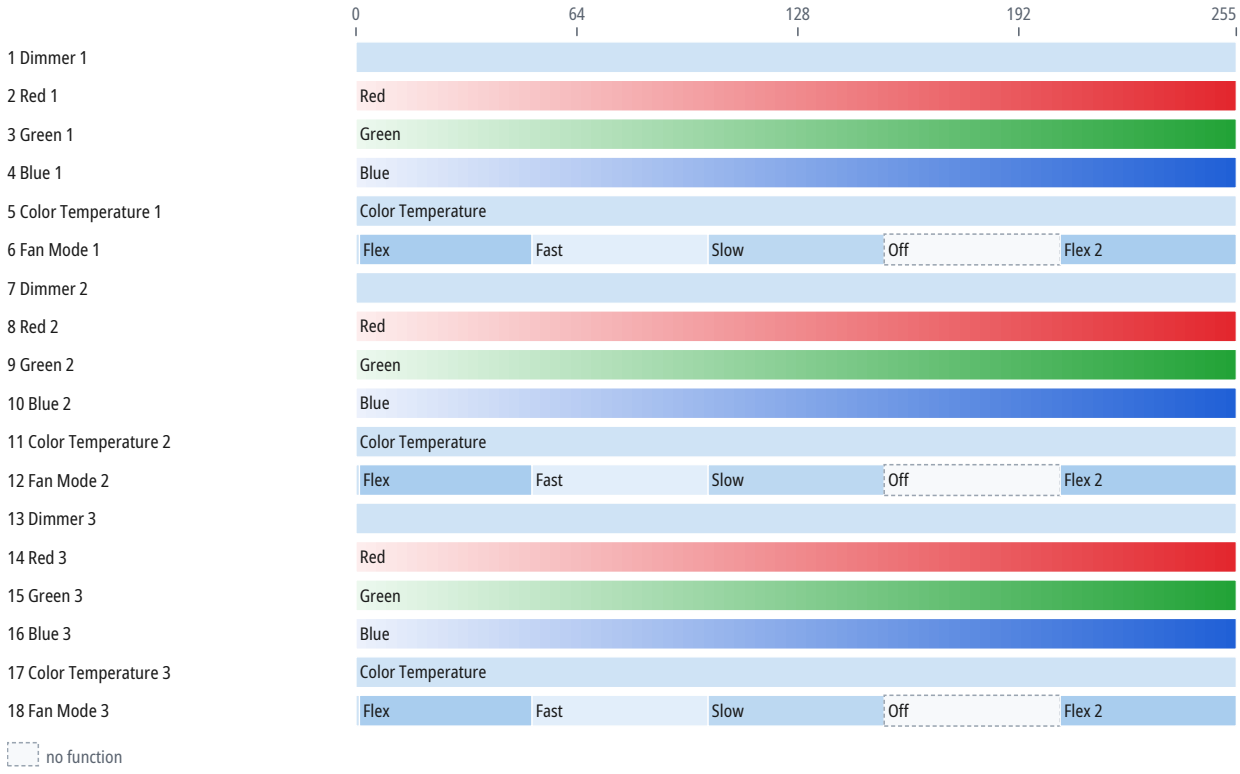


CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Color Temperature 1		Same as CH 3 in the mode “ITSH16 - Individual Control” (p. 8)
3	Tint 1	0–255	
4	Color Crossfade 1	0–255	Crossfade
5	Red 1	0–255	Red
6	Green 1	0–255	Green
7	Blue 1	0–255	Blue
8	White 1	0–255	White
9	Fan Mode 1		Same as CH 9 in the mode “ITSH16 - Individual Control” (p. 8)
10	Dimmer 2	0–255	
11	Color Temperature 2		Same as CH 13 in the mode “ITSH16 - Individual Control” (p. 9)
12	Tint 2	0–255	
13	Color Crossfade 2	0–255	Crossfade
14	Red 2	0–255	Red
15	Green 2	0–255	Green
16	Blue 2	0–255	Blue
17	White 2	0–255	White
18	Fan Mode 2		Same as CH 19 in the mode “ITSH16 - Individual Control” (p. 9)
19	Dimmer 3	0–255	
20	Color Temperature 3		Same as CH 23 in the mode “ITSH16 - Individual Control” (p. 9)
21	Tint 3	0–255	
22	Color Crossfade 3	0–255	Crossfade
23	Red 3	0–255	Red
24	Green 3	0–255	Green
25	Blue 3	0–255	Blue
26	White 3	0–255	
27	Fan Mode 3		Same as CH 29 in the mode “ITSH16 - Individual Control” (p. 9)

Mode iRGB8 - Individual Control

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 7 Dimmer 2 above 0; CH 13 Dimmer 3 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 0, CH 5 Color Temperature 1 255, CH 7 Dimmer 2 0, CH 11 Color Temperature 2 255, CH 13 Dimmer 3 0, CH 17 Color Temperature 3 255.

Channel functions at a glance



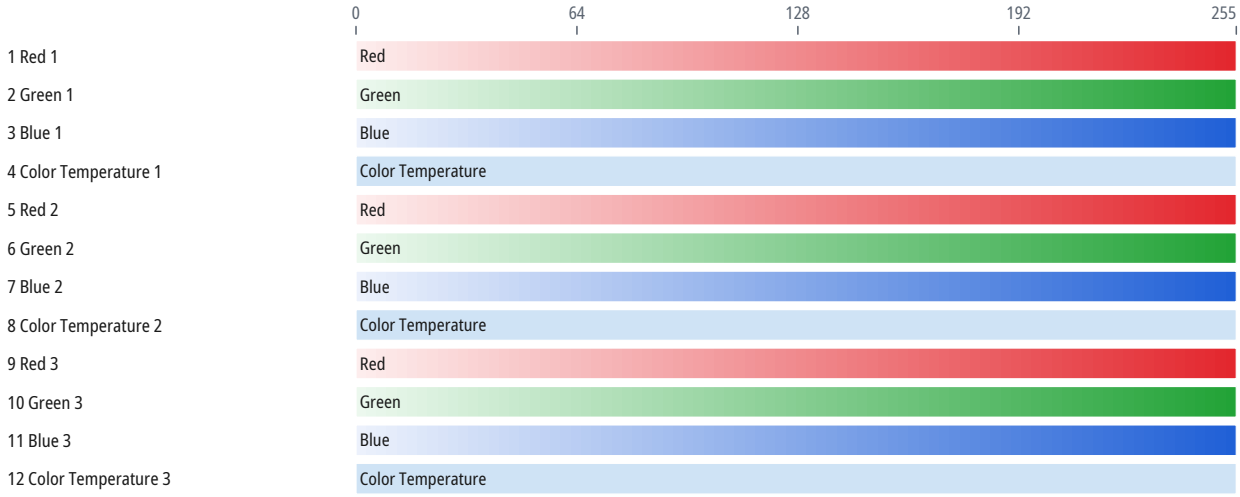
CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Red 1	0–255	Red
3	Green 1	0–255	Green
4	Blue 1	0–255	Blue
5	Color Temperature 1		Same as CH 3 in the mode “ITSH16 - Individual Control” (p. 8)
6	Fan Mode 1		Same as CH 9 in the mode “ITSH16 - Individual Control” (p. 8)
7	Dimmer 2	0–255	
8	Red 2	0–255	Red
9	Green 2	0–255	Green
10	Blue 2	0–255	Blue
11	Color Temperature 2		Same as CH 13 in the mode “ITSH16 - Individual Control” (p. 9)
12	Fan Mode 2		Same as CH 19 in the mode “ITSH16 - Individual Control” (p. 9)
13	Dimmer 3	0–255	
14	Red 3	0–255	Red
15	Green 3	0–255	Green

CH	Function	DMX	Description
16	Blue 3	0–255	Blue
17	Color Temperature 3		Same as CH 23 in the mode “ITSH16 - Individual Control” (p. 9)
18	Fan Mode 3		Same as CH 29 in the mode “ITSH16 - Individual Control” (p. 9)

Mode RGB8 - Individual Control

The GDTF file gives these values for a console's Highlight function: CH 4 Color Temperature 1 255, CH 8 Color Temperature 2 255, CH 12 Color Temperature 3 255.

Channel functions at a glance



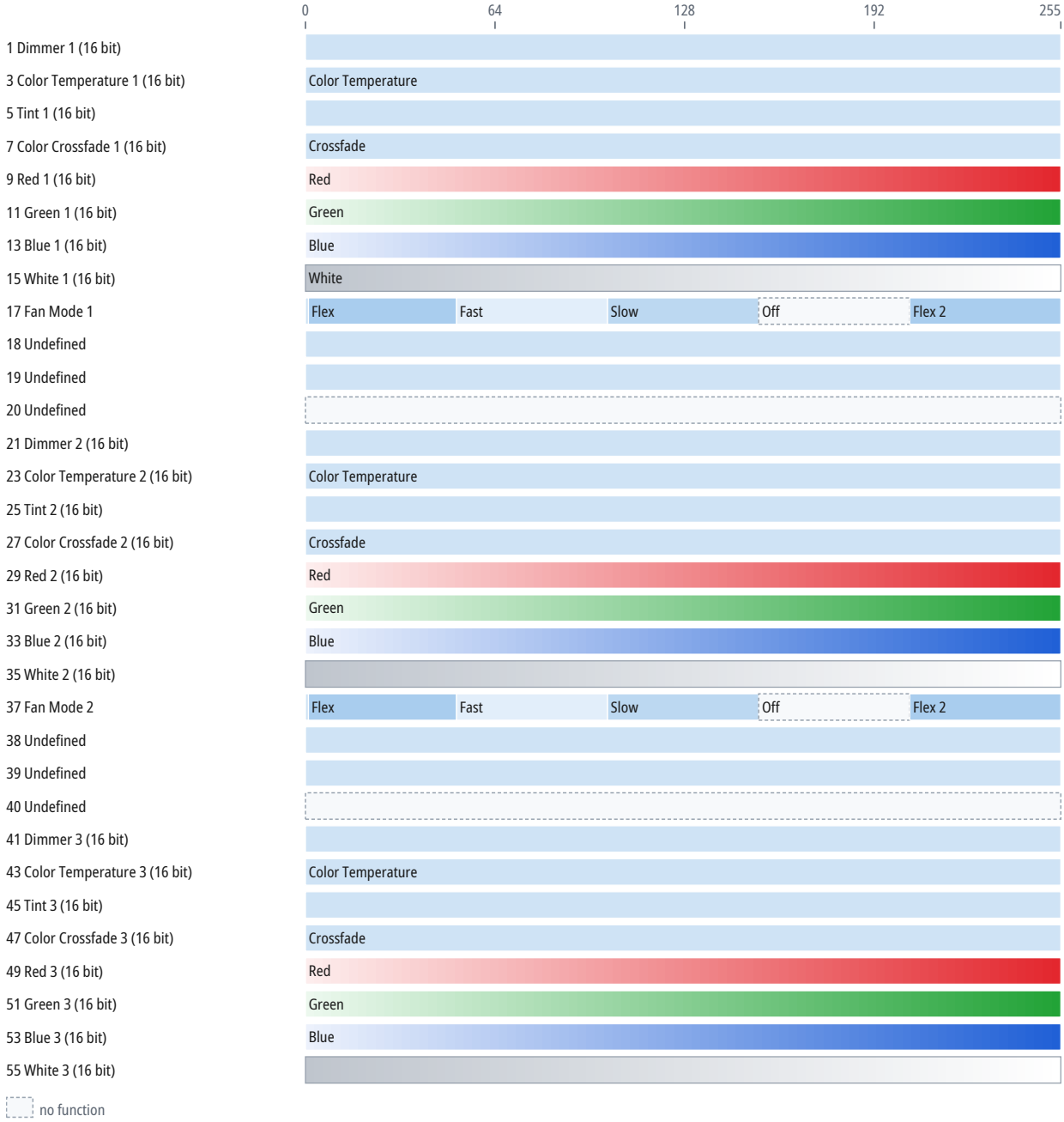
CH	Function	DMX	Description
1	Red 1	0–255	Red
2	Green 1	0–255	Green
3	Blue 1	0–255	Blue
4	Color Temperature 1		Same as CH 3 in the mode “ITSH16 - Individual Control” (p. 8)
5	Red 2	0–255	Red
6	Green 2	0–255	Green
7	Blue 2	0–255	Blue
8	Color Temperature 2		Same as CH 13 in the mode “ITSH16 - Individual Control” (p. 9)
9	Red 3	0–255	Red
10	Green 3	0–255	Green
11	Blue 3	0–255	Blue
12	Color Temperature 3		Same as CH 23 in the mode “ITSH16 - Individual Control” (p. 9)

Mode ARRI6 - Individual Control

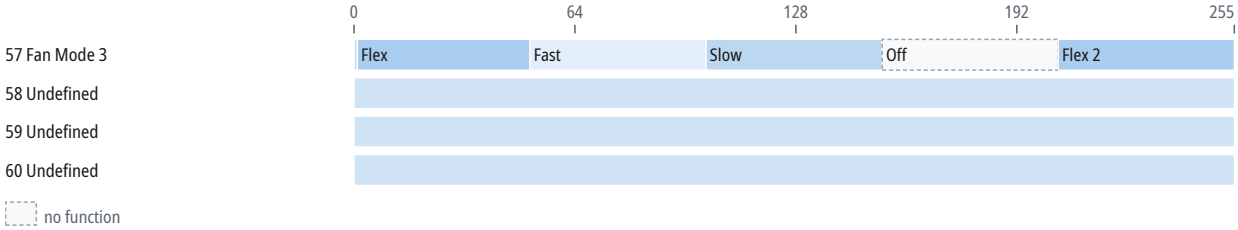
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 21 Dimmer 2 above 0; CH 41 Dimmer 3 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 0, CH 3 Color Temperature 1 255, CH 15 White 1 255, CH 21 Dimmer 2 0, CH 23 Color Temperature 2 255, CH 35 White 2 255, CH 41 Dimmer 3 0, CH 43 Color Temperature 3 255, CH 55 White 3 255.

Channel functions at a glance



Channel functions at a glance



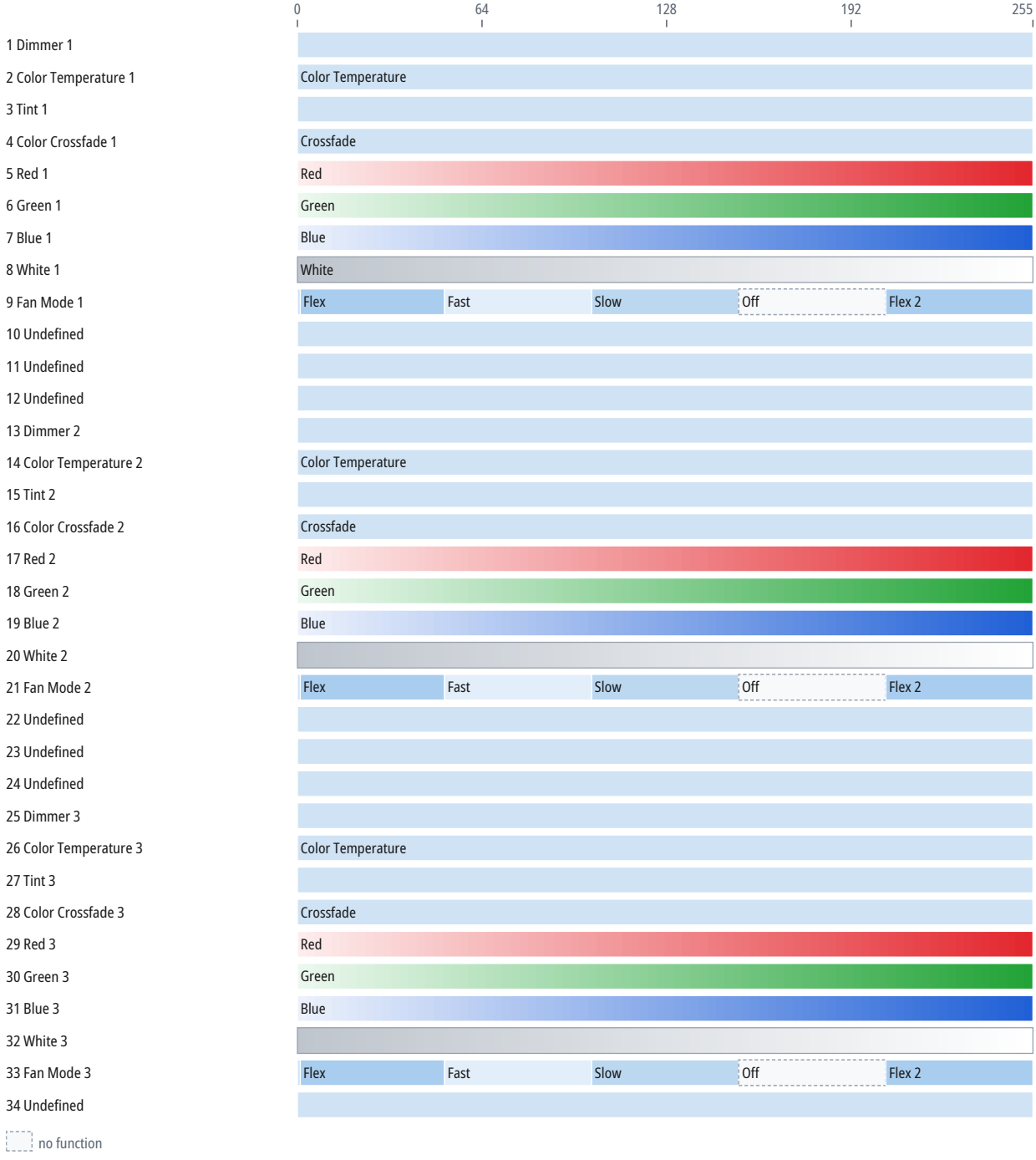
CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Color Temperature 1		Same as CH 3 in the mode “ITSH16 - Individual Control” (p. 8)
4	Color Temperature 1 Fine	0–255	Fine adjustment of CH 3
5	Tint 1	0–255	
6	Tint 1 Fine	0–255	Fine adjustment of CH 5
7	Color Crossfade 1	0–255	Crossfade
8	Color Crossfade 1 Fine	0–255	Fine adjustment of CH 7
9	Red 1	0–255	Red
10	Red 1 Fine	0–255	Fine adjustment of CH 9
11	Green 1	0–255	Green
12	Green 1 Fine	0–255	Fine adjustment of CH 11
13	Blue 1	0–255	Blue
14	Blue 1 Fine	0–255	Fine adjustment of CH 13
15	White 1	0–255	White
16	White 1 Fine	0–255	Fine adjustment of CH 15
17	Fan Mode 1		Same as CH 9 in the mode “ITSH16 - Individual Control” (p. 8)
18	Undefined	0–255	
19	Undefined	0–255	
20	Undefined	0–255	
21	Dimmer 2	0–255	
22	Dimmer 2 Fine	0–255	Fine adjustment of CH 21
23	Color Temperature 2		Same as CH 13 in the mode “ITSH16 - Individual Control” (p. 9)
24	Color Temperature 2 Fine	0–255	Fine adjustment of CH 23
25	Tint 2	0–255	
26	Tint 2 Fine	0–255	Fine adjustment of CH 25
27	Color Crossfade 2	0–255	Crossfade
28	Color Crossfade 2 Fine	0–255	Fine adjustment of CH 27
29	Red 2	0–255	Red
30	Red 2 Fine	0–255	Fine adjustment of CH 29
31	Green 2	0–255	Green
32	Green 2 Fine	0–255	Fine adjustment of CH 31
33	Blue 2	0–255	Blue

CH	Function	DMX	Description
34	Blue 2 Fine	0–255	Fine adjustment of CH 33
35	White 2	0–255	
36	White 2 Fine	0–255	Fine adjustment of CH 35
37	Fan Mode 2		Same as CH 19 in the mode “ITSH16 - Individual Control” (p. 9)
38	Undefined	0–255	
39	Undefined	0–255	
40	Undefined	0–255	
41	Dimmer 3	0–255	
42	Dimmer 3 Fine	0–255	Fine adjustment of CH 41
43	Color Temperature 3		Same as CH 23 in the mode “ITSH16 - Individual Control” (p. 9)
44	Color Temperature 3 Fine	0–255	Fine adjustment of CH 43
45	Tint 3	0–255	
46	Tint 3 Fine	0–255	Fine adjustment of CH 45
47	Color Crossfade 3	0–255	Crossfade
48	Color Crossfade 3 Fine	0–255	Fine adjustment of CH 47
49	Red 3	0–255	Red
50	Red 3 Fine	0–255	Fine adjustment of CH 49
51	Green 3	0–255	Green
52	Green 3 Fine	0–255	Fine adjustment of CH 51
53	Blue 3	0–255	Blue
54	Blue 3 Fine	0–255	Fine adjustment of CH 53
55	White 3	0–255	
56	White 3 Fine	0–255	Fine adjustment of CH 55
57	Fan Mode 3		Same as CH 29 in the mode “ITSH16 - Individual Control” (p. 9)
58	Undefined	0–255	
59	Undefined	0–255	
60	Undefined	0–255	

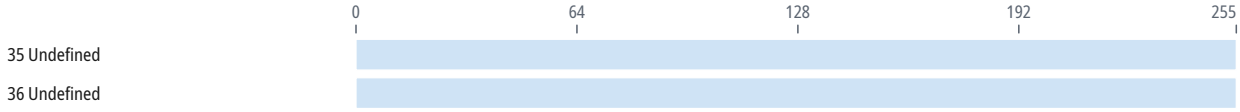
Mode ARRI1 - Individual Control

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 13 Dimmer 2 above 0; CH 25 Dimmer 3 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 0, CH 2 Color Temperature 1 255, CH 8 White 1 255, CH 13 Dimmer 2 0, CH 14 Color Temperature 2 255, CH 20 White 2 255, CH 25 Dimmer 3 0, CH 26 Color Temperature 3 255, CH 32 White 3 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Color Temperature 1		Same as CH 3 in the mode “ITSH16 - Individual Control” (p. 8)
3	Tint 1	0–255	
4	Color Crossfade 1	0–255	Crossfade
5	Red 1	0–255	Red
6	Green 1	0–255	Green
7	Blue 1	0–255	Blue
8	White 1	0–255	White
9	Fan Mode 1		Same as CH 9 in the mode “ITSH16 - Individual Control” (p. 8)
10	Undefined	0–255	
11	Undefined	0–255	
12	Undefined	0–255	
13	Dimmer 2	0–255	
14	Color Temperature 2		Same as CH 13 in the mode “ITSH16 - Individual Control” (p. 9)
15	Tint 2	0–255	
16	Color Crossfade 2	0–255	Crossfade
17	Red 2	0–255	Red
18	Green 2	0–255	Green
19	Blue 2	0–255	Blue
20	White 2	0–255	
21	Fan Mode 2		Same as CH 19 in the mode “ITSH16 - Individual Control” (p. 9)
22	Undefined	0–255	
23	Undefined	0–255	
24	Undefined	0–255	
25	Dimmer 3	0–255	
26	Color Temperature 3		Same as CH 23 in the mode “ITSH16 - Individual Control” (p. 9)
27	Tint 3	0–255	
28	Color Crossfade 3	0–255	Crossfade
29	Red 3	0–255	Red
30	Green 3	0–255	Green
31	Blue 3	0–255	Blue
32	White 3	0–255	
33	Fan Mode 3		Same as CH 29 in the mode “ITSH16 - Individual Control” (p. 9)

CH	Function	DMX	Description
34	Undefined	0–255	
35	Undefined	0–255	
36	Undefined	0–255	

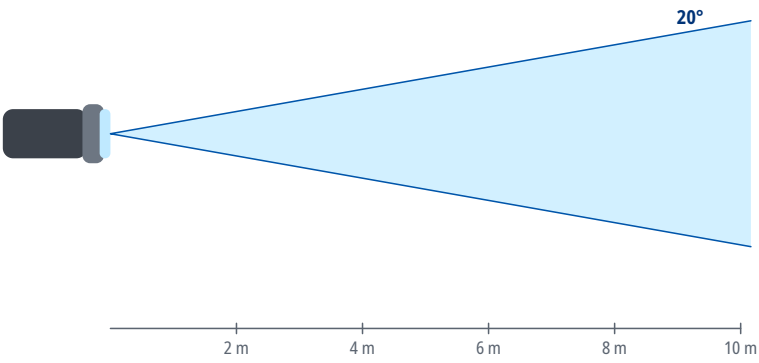
9 Technical specifications

Parameter	Value
Operating temperature	0 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	1500–10000 K

Spot diameter



Distance	Ø 20°
2 m	0.71 m
4 m	1.4 m
6 m	2.1 m
8 m	2.8 m
10 m	3.5 m
15 m	5.3 m

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

10 Maintenance and cleaning

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

11 Troubleshooting

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

12 Disposal

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

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

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

Recycle the packaging materials according to their type.