DMX REFERENCE

TF2-AuroLITE 80-SS5421XCT XWT

Silver Star



Manufacturer	Silver Star
GDTF file	Silver_Star_TF2-AuroLITE_80-SS5421XCT_XWT_77156.gdtf
GDTF revision	TF2-SS5421XCT XWT · 2024-10-29
Generated	2026-11-24

Contents

1 About this manual 2
2 Quick reference 3
3 Safety instructions 4
4 Installation 5
5 Connections 5
6 Operation 6
7 Functions at a glance 6
8 DMX channels 9
Mode HSIC(8CH) 10
Mode TR16(17CH) 11
Mode TOUR(12CH) 14
Mode SSP(7CH) 15
Mode BLOCK2(15CH) 16
Mode BLOCK1(9CH) 19
Mode CMY(10CH) 20
9 Technical specifications 22
10 Maintenance and cleaning 22
11 Troubleshooting 23
12 Disposal 23

1 About this manual

This document describes the TF2-AuroLITE 80-SS5421XCT XWT by Silver Star. It was compiled from the GDTF file Silver_Star_TF2-AuroLITE_80-SS5421XCT_XWT_77156.gdtf from the GDTF-Share library.

File revision: “TF2-SS5421XCT XWT”.

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 Silver Star; 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
Power consumption	30 W
Weight	7.5 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
HSIC(8CH)	7	73	1, 8, 15, 22, ...
TR16(17CH)	17	30	1, 18, 35, 52, ...
TOUR(12CH)	12	42	1, 13, 25, 37, ...
SSP(7CH)	7	73	1, 8, 15, 22, ...
BLOCK2(15CH)	15	34	1, 16, 31, 46, ...
BLOCK1(9CH)	9	56	1, 10, 19, 28, ...
CMY(10CH)	10	51	1, 11, 21, 31, ...

No light? Check these channels

- HSIC(8CH): CH 1 Dimmer above 0; CH 6 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”
- TR16(17CH): CH 1 Dimmer above 0; CH 16 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”
- TOUR(12CH): CH 1 Dimmer above 0; CH 11 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”
- SSP(7CH): CH 1 Dimmer above 0; CH 6 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”
- BLOCK2(15CH): CH 1 Dimmer above 0; CH 2 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”
- BLOCK1(9CH): CH 1 Dimmer above 0; CH 2 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”
- CMY(10CH): CH 1 Dimmer above 0; CH 9 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

3 Safety instructions


Read the manual before use


Risk of electric shock


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

- Connect the device only to a properly installed mains outlet with a protective earth (ground) contact. The outlet or other means of disconnection must remain easily accessible.
- Power supply: 100–240 V, 50/60 Hz. Before connecting, make sure that the mains voltage matches this value and the value on the rating plate of the device.
- Do not connect the device to a dimmer or to a dimmed circuit.
- Use only the original power cable or a cable with identical ratings. Protect the cable from damage, do not run it over sharp edges, and never unplug it by pulling on the cable.
- When connecting several devices to one circuit, do not exceed its permitted load.
- Do not touch the device with wet hands.

⚠ 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

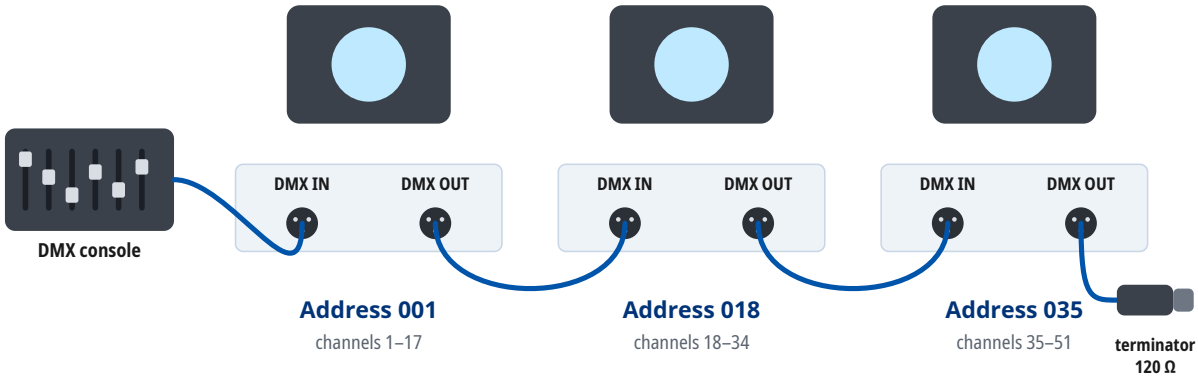
⚠ **WARNING**

- 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.
- Weight of the device: 7.5 kg.
- Use suitable mounting hardware (for example truss clamps) and tighten all screw connections properly.
- Always secure the suspended device against falling with a safety cable of adequate load capacity, routed through a fixed point of the device and around the supporting structure.
- During installation and removal, keep people out of the area below the work position.
- Regularly inspect the fixings and the safety cable for damage, corrosion and loosening.

5 Connections

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

DMX line



Mode TR16(17CH): 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 “TR16(17CH)”: 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 “TR16(17CH)”, 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

	HSIC(8CH) 7 channels	TR16(17CH) 17 channels	TOUR(12CH) 12 channels	SSP(7CH) 7 channels	BLOCK2(15CH) 15 channels	BLOCK1(9CH) 9 channels	CMY(10CH) 10 channels
Dimmer	1	1	1	1	1	1	1
Dimmer resolution	8 bit	16 bit	8 bit	8 bit	8 bit	8 bit	8 bit
Shutter / strobe	6	16	11	6	2	2	9
Color mixing		4× (3–9)	2–5	2–5	3–6, 9–12	3–8	2–4
Color temperature	5	12	7		8, 14		6
Color wheel		11	6		7, 13		5
Effects / macros		13–15	8–10				7, 8

Color wheel 1

1 R40 DMX 16–20

2 L24 DMX 21–25

3 L164 DMX 26–40

4 L08 DMX 41–45

5 L25 DMX 46–55

6 L237 DMX 56–60

7 R321 DMX 61–65

8 L652 DMX 66–75

9 L765 DMX 76–80

10 L513 DMX 81–105

11 L90 DMX 106–115

12 R92 DMX 116–135

13 L728 DMX 136–140

14 L117 DMX 141–145

15 L354 DMX 146–155

16 L501 DMX 156–160

17 L174 DMX 161–180

18 L142 DMX 181–195

19 L794 DMX 196–200

20 L328 DMX 201–215

21 L127 DMX 216–220

22 L192 DMX 221–235

23 L157 DMX 236–240

24 R332 DMX 241–245

25 WHITE DMX 0–15

Color wheel 2

1 WHITE
DMX 0–9

2 R40
DMX 10–19

3 L24
DMX 20–30

4 L164
DMX 31–40

5 L08
DMX 41–50

6 L25
DMX 51–60

7 L237
DMX 61–71

8 R321
DMX 72–81

9 L652
DMX 82–91

10 L765
DMX 92–101

11 L513
DMX 102–112

12 L90
DMX 113–122

13 R92
DMX 123–132

14 L728
DMX 133–142

15 L117
DMX 143–153

16 L354
DMX 154–163

17 L501
DMX 164–173

18 L174
DMX 174–183

19 L142
DMX 184–194

20 L794
DMX 195–204

21 L328
DMX 205–214

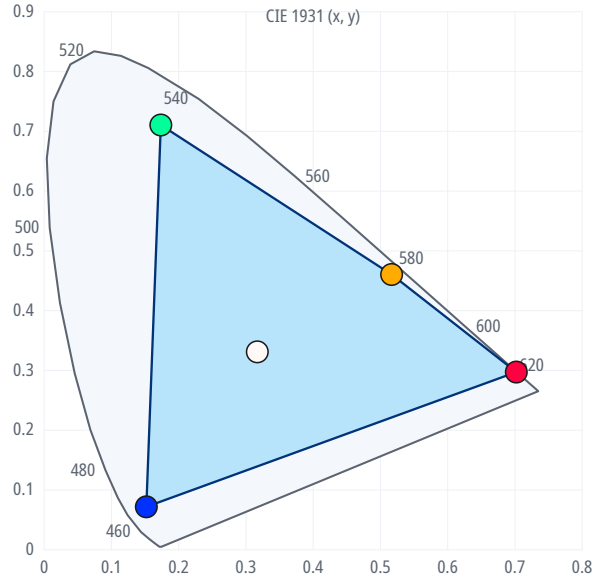
22 L127
DMX 215–224

23 L192
DMX 225–235

24 L157
DMX 236–245

25 R332
DMX 246–255

LED colors and the colors they mix

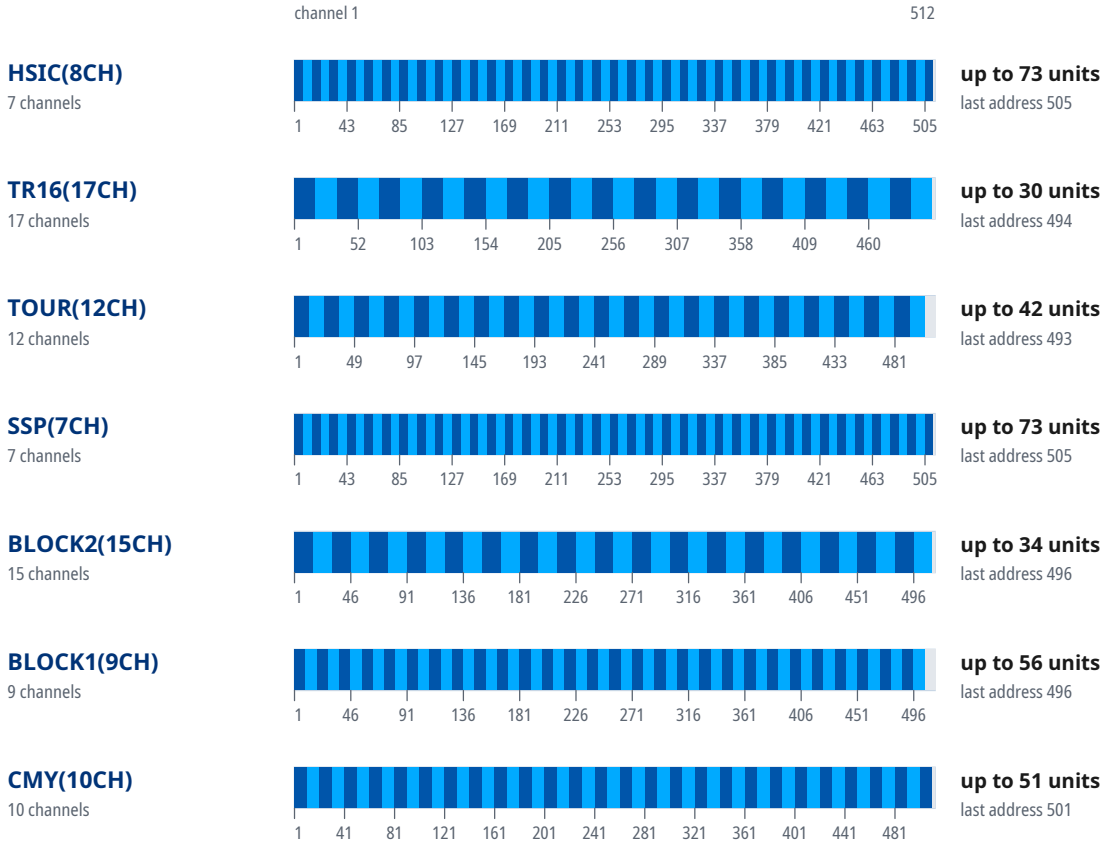


LED	x	y	nm
Red	0.702	0.297	626
Green	0.173	0.711	527
Blue	0.152	0.072	452
White	0.317	0.331	
Amber	0.517	0.461	

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 “TR16(17CH)”

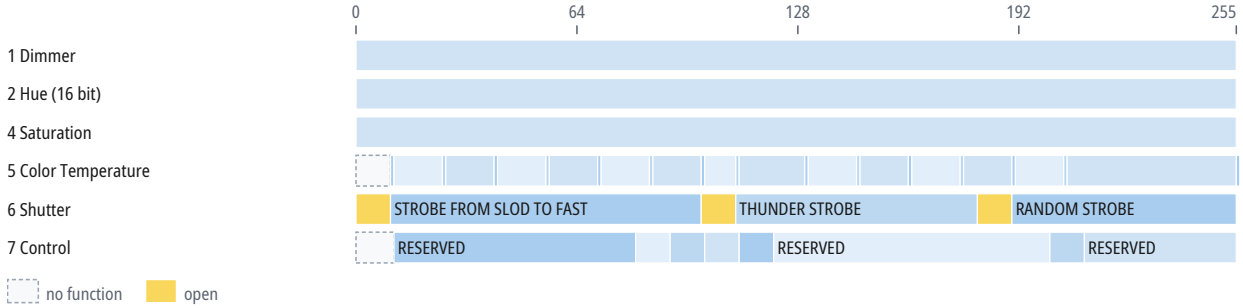
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	86	11	171	16	256
2	18	7	103	12	188	17	273
3	35	8	120	13	205	18	290
4	52	9	137	14	222	19	307
5	69	10	154	15	239	20	324

Mode HSIC(8CH)

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 6 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	
2	Hue	0–255	
3	Hue Fine	0–255	Fine adjustment of CH 2
4	Saturation	0–255	
5	Color Temperature	0–9	NO FUNCTION
		10	1800K
		11–24	1800K … 2200K
		25	2200K
		26–39	2200K … 2700K
		40	2700K
		41–54	2700K … 3000K
		55	3000K
		56–69	3000K … 3200K
		70	3200K
		71–84	3200K … 4000K
		85	4000K
		86–99	4000K … 4500K
		100	4500K
		101–109	4500K … 5000K
		110	5000K
		111–129	5000K … 5600K
		130	5600K
		131–144	5600K … 6000K
		145	6000K
		146–159	6000K … 6500K
		160	6500K
		161–174	6500K … 7000K
		175	7000K

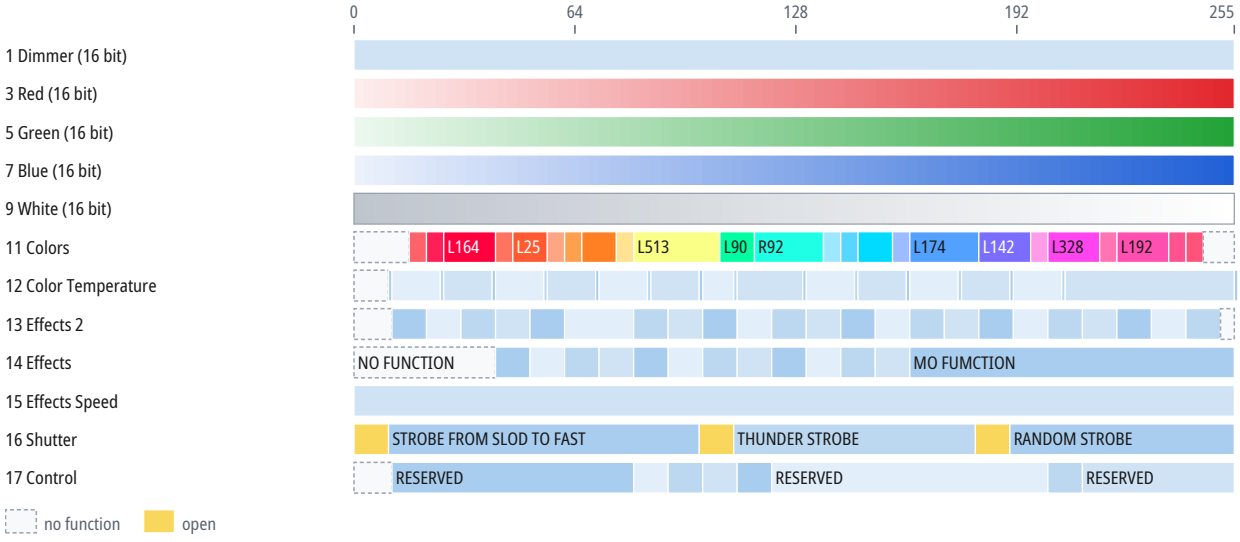
CH	Function	DMX	Description
5	Color Temperature (continued)	176–189	7000K … 8000K
		190	8000K
		191–204	8000K … 10000K
		205	10000K
		206–254	CTC
		255	10000K
6	Shutter	0–9	Shutter 1: NO FUNCTION
		10–99	STROBE FROM SLOD TO FAST
		100–109	Shutter 1: NO FUNCTION
		110–179	THUNDER STROBE
		180–189	Shutter 1: NO FUNCTION
		190–255	RANDOM STROBE
7	Control	0–10	NO FUNCTION
		11–80	RESERVED
		81–90	CELL ORDER LEFT TO RIGHT
		91–100	CELL ORDER LEFT TO LIFT
		101–110	DIMMER OFF
		111–120	DIMMER DIM4
		121–200	RESERVED
		201–210	ALL RESET
		211–255	RESERVED

Mode TR16(17CH)

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 16 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”.

Channel functions at a glance



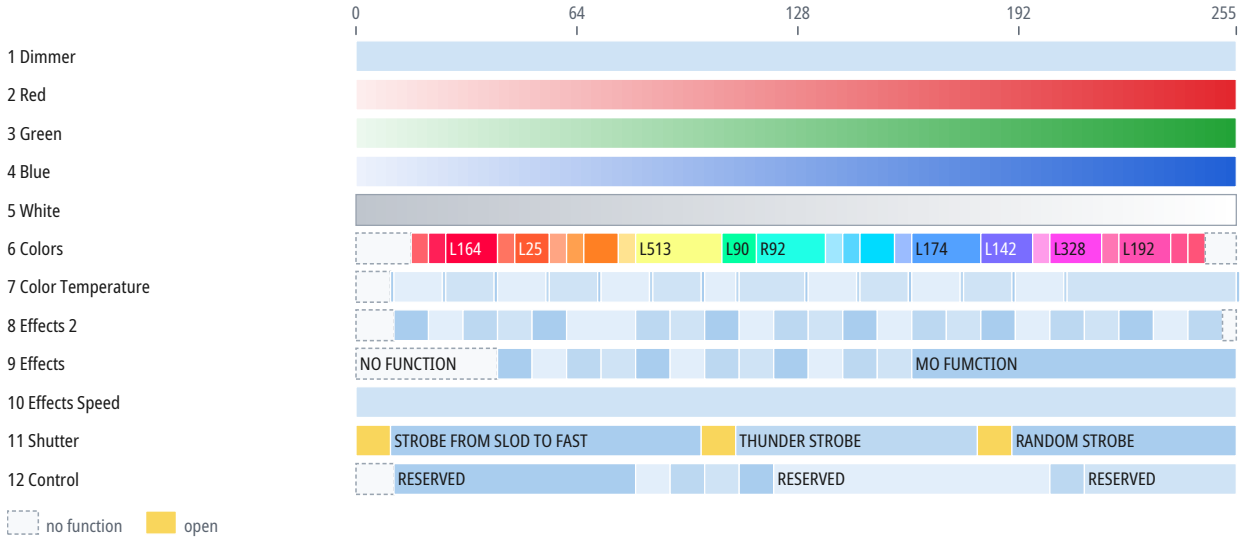
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Red	0–255	
4	Red Fine	0–255	Fine adjustment of CH 3
5	Green	0–255	
6	Green Fine	0–255	Fine adjustment of CH 5
7	Blue	0–255	
8	Blue Fine	0–255	Fine adjustment of CH 7
9	White	0–255	
10	White Fine	0–255	Fine adjustment of CH 9
11	Colors	0–15	NO FUNCTION
		16–20	R40
		21–25	L24
		26–40	L164
		41–45	L08
		46–55	L25
		56–60	L237
		61–65	R321
		66–75	L652
		76–80	L765
		81–105	L513
		106–115	L90
		116–135	R92
		136–140	L728
		141–145	L117
		146–155	L354
		156–160	L501
		161–180	L174
		181–195	L142
		196–200	L794
		201–215	L328
		216–220	L127
		221–235	L192
		236–240	L157
		241–245	R332
		246–255	NO FUNCTION
12	Color Temperature		Same as CH 5 in the mode “HSIC(8CH)” (p. 10)
13	Effects 2	0–10	NO FUNCTION
		11–20	ZONE 1
		21–30	ZONE 2
		31–40	ZONE 1-2

CH	Function	DMX	Description
13	Effects 2 (continued)	41–50	ZONE 1
		51–60	ZONE 2
		61–90	ZONE 1-2
		91–100	ZONE 2-1
		101–120	ZONE 1-2-1
		121–130	ZONE 1-2
		131–140	ZONE 2-1
		141–150	ZONE 1-2-1
		151–160	ZONE 1-2
		161–170	ZONE 2-1
		171–180	ZONE 1-2-1
		181–200	RED 1-2-1
		201–220	GREEN 1-2-1
		221–240	BLUE 1-2-1
		241–250	WHITE 1-2-1
		251–255	NO FUNCTION
14	Effects	0–40	NO FUNCTION
		41–50	AUTO 1
		51–60	AUTO 2
		61–70	AUTO 3
		71–80	AUTO 4
		81–90	AUTO 5
		91–100	AUTO 6
		101–110	AUTO 7
		111–120	AUTO 8
		121–130	AUTO 9
		131–140	AUTO 10
		141–150	PROGRAM 1
		151–160	PROGRAM 2
		161–255	MO FUMCTION
15	Effects Speed	0–255	
16	Shutter		Same as CH 6 in the mode “HSIC(8CH)” (p. 11)
17	Control		Same as CH 7 in the mode “HSIC(8CH)” (p. 11)

Mode TOUR(12CH)

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 11 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”.

Channel functions at a glance

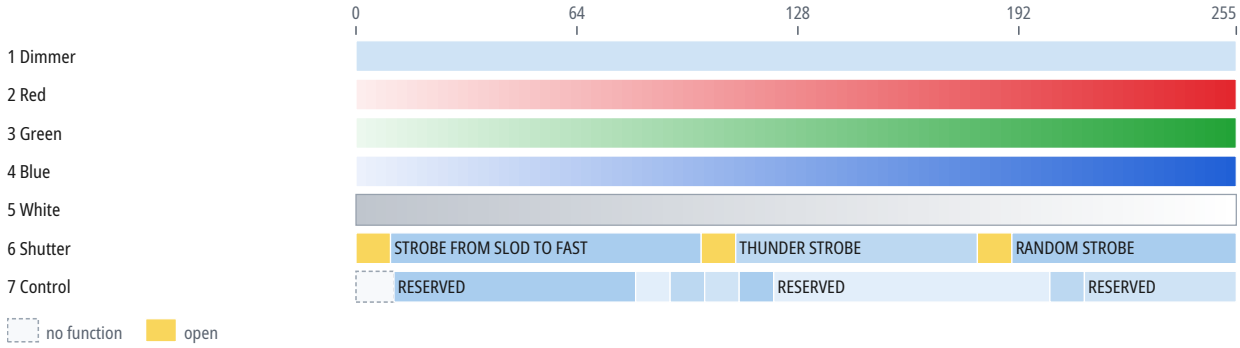


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Red	0–255	
3	Green	0–255	
4	Blue	0–255	
5	White	0–255	
6	Colors		Same as CH 11 in the mode “TR16(17CH)” (p. 12)
7	Color Temperature		Same as CH 5 in the mode “HSIC(8CH)” (p. 10)
8	Effects 2		Same as CH 13 in the mode “TR16(17CH)” (p. 12)
9	Effects		Same as CH 14 in the mode “TR16(17CH)” (p. 13)
10	Effects Speed	0–255	
11	Shutter		Same as CH 6 in the mode “HSIC(8CH)” (p. 11)
12	Control		Same as CH 7 in the mode “HSIC(8CH)” (p. 11)

Mode SSP(7CH)

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 6 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”.

Channel functions at a glance

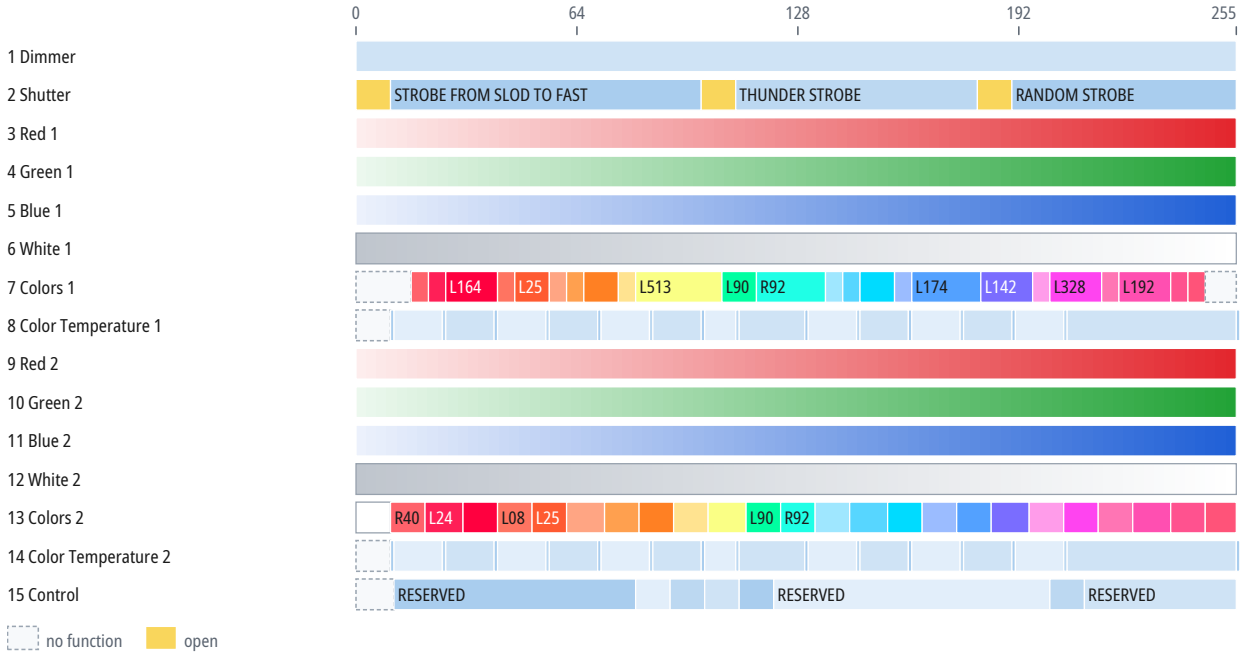


CH	Function	DMX	Description
1	Dimmer	0–255	
2	Red	0–255	
3	Green	0–255	
4	Blue	0–255	
5	White	0–255	
6	Shutter		Same as CH 6 in the mode “HSIC(8CH)” (p. 11)
7	Control		Same as CH 7 in the mode “HSIC(8CH)” (p. 11)

Mode BLOCK2(15CH)

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	
2	Shutter		Same as CH 6 in the mode “HSIC(8CH)” (p. 11)
3	Red 1	0–255	
4	Green 1	0–255	
5	Blue 1	0–255	
6	White 1	0–255	
7	Colors 1	0–15	NO FUNCTION
		16–20	R40
		21–25	L24
		26–40	L164
		41–45	L08
		46–55	L25
		56–60	L237
		61–65	R321
		66–75	L652
		76–80	L765
		81–105	L513
		106–115	L90
		116–135	R92
		136–140	L728
		141–145	L117

CH	Function	DMX	Description
7	Colors 1 (continued)	146–155	L354
		156–160	L501
		161–180	L174
		181–195	L142
		196–200	L794
		201–215	L328
		216–220	L127
		221–235	L192
		236–240	L157
		241–245	R332
		246–255	NO FUNCTION
8	Color Temperature 1	0–9	NO FUNCTION
		10	1800K
		11–24	1800K … 2200K
		25	2200K
		26–39	2200K … 2700K
		40	2700K
		41–54	2700K … 3000K
		55	3000K
		56–69	3000K … 3200K
		70	3200K
		71–84	3200K … 4000K
		85	4000K
		86–99	4000K … 4500K
		100	4500K
		101–109	4500K … 5000K
		110	5000K
		111–129	5000K … 5600K
		130	5600K
		131–144	5600K … 6000K
		145	6000K
		146–159	6000K … 6500K
		160	6500K
		161–174	6500K … 7000K
		175	7000K
		176–189	7000K … 8000K
		190	8000K
		191–204	8000K … 10000K
		205	10000K
		206–254	CTC
		255	10000K
9	Red 2	0–255	

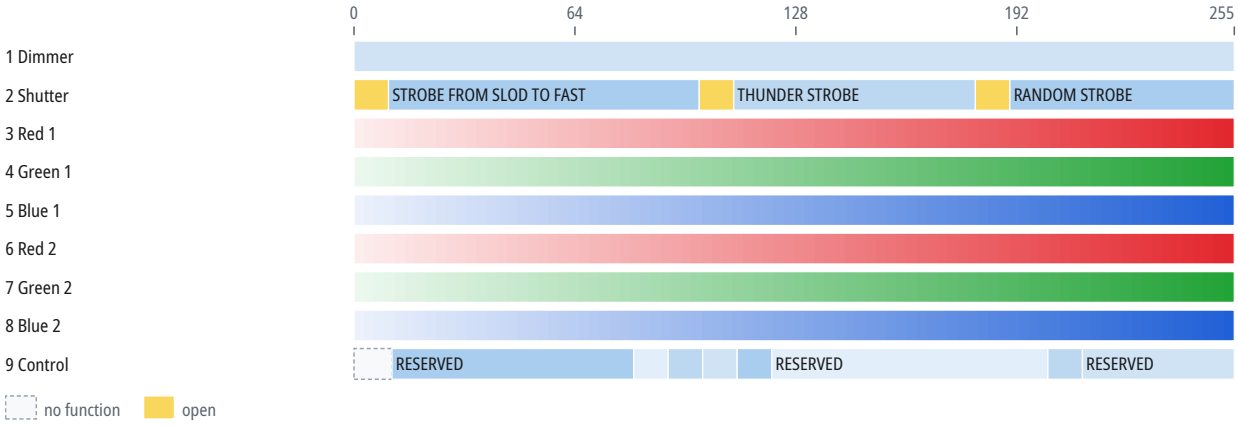
CH	Function	DMX	Description
10	Green 2	0–255	
11	Blue 2	0–255	
12	White 2	0–255	
13	Colors 2	0–9	WHITE
		10–19	R40
		20–30	L24
		31–40	L164
		41–50	L08
		51–60	L25
		61–71	L237
		72–81	R321
		82–91	L652
		92–101	L765
		102–112	L513
		113–122	L90
		123–132	R92
		133–142	L728
		143–153	L117
		154–163	L354
		164–173	L501
		174–183	L174
		184–194	L142
		195–204	L794
		205–214	L328
		215–224	L127
		225–235	L192
		236–245	L157
		246–255	R332
14	Color Temperature 2	0–9	NO FUNCTION
		10	1800K
		11–24	1800K ... 2200K
		25	2200K
		26–39	2200K ... 2700K
		40	2700K
		41–54	2700K ... 3000K
		55	3000K
		56–69	3000K ... 3200K
		70	3200K
		71–84	3200K ... 4000K
		85	4000K
		86–99	4000K ... 4500K
		100	4500K

CH	Function	DMX	Description
14	Color Temperature 2 (continued)	101–109	4500K … 5000K
		110	5000K
		111–129	5000K … 5600K
		130	5600K
		131–144	5600K … 6000K
		145	6000K
		146–159	6000K … 6500K
		160	6500K
		161–174	6500K … 7000K
		175	7000K
		176–189	7000K … 8000K
		190	8000K
		191–204	8000K … 10000K
		205	10000K
		206–254	CTC
		255	10000K
15	Control		Same as CH 7 in the mode “HSIC(8CH)” (p. 11)

Mode BLOCK1(9CH)

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”.

Channel functions at a glance



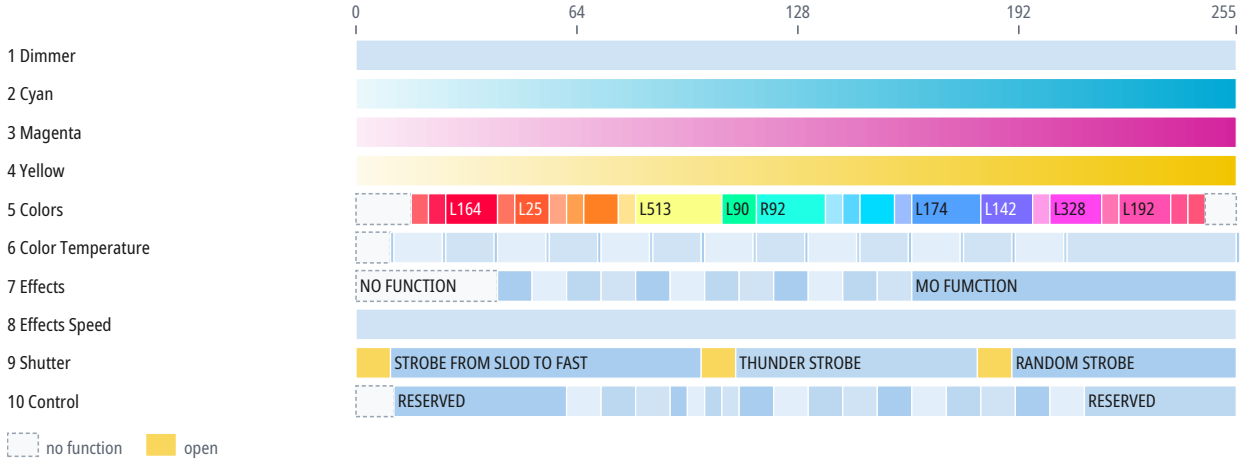
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Shutter		Same as CH 6 in the mode “HSIC(8CH)” (p. 11)
3	Red 1	0–255	
4	Green 1	0–255	
5	Blue 1	0–255	
6	Red 2	0–255	

CH	Function	DMX	Description
7	Green 2	0–255	
8	Blue 2	0–255	
9	Control		Same as CH 7 in the mode “HSIC(8CH)” (p. 11)

Mode CMY(10CH)

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 9 Shutter at 0–9, 100–109 or 180–189 “NO FUNCTION”.

Channel functions at a glance



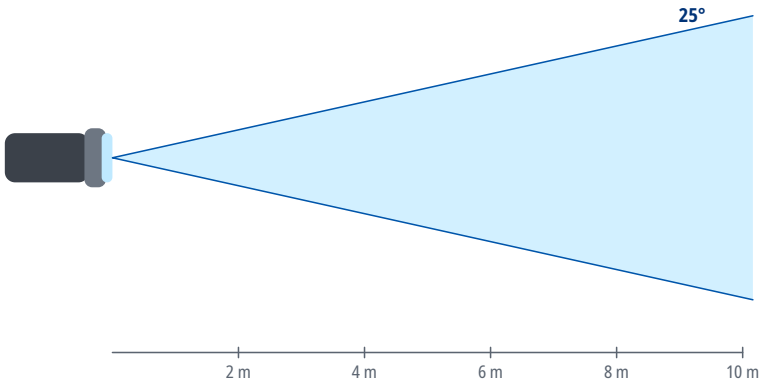
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Cyan	0–255	
3	Magenta	0–255	
4	Yellow	0–255	
5	Colors		Same as CH 11 in the mode “TR16(17CH)” (p. 12)
6	Color Temperature	0–9	NO FUNCTION
		10	1800K
		11–24	1800K … 2200K
		25	2200K
		26–39	2200K … 2700K
		40	2700K
		41–54	2700K … 3000K
		55	3000K
		56–69	3000K … 3200K
		70	3200K
		71–84	3200K … 4000K
		85	4000K
		86–99	4000K … 4500K
		100	4500K

CH	Function	DMX	Description
6	Color Temperature (continued)	101–114	4500K … 5000K
		115	5000K
		116–129	5000K … 5600K
		130	5600K
		131–144	5600K … 6000K
		145	6000K
		146–159	6000K … 6500K
		160	6500K
		161–174	6500K … 7000K
		175	7000K
		176–189	7000K … 8000K
		190	8000K
		191–204	8000K … 10000K
		205	10000K
		206–254	CTC
		255	10000K
7	Effects		Same as CH 14 in the mode “TR16(17CH)” (p. 13)
8	Effects Speed	0–255	
9	Shutter		Same as CH 6 in the mode “HSIC(8CH)” (p. 11)
10	Control	0–10	NO FUNCTION
		11–60	RESERVED
		61–70	STUDIO
		71–80	POWER
		81–90	LIVE
		91–95	DIMMER SPEED OFF
		96–100	DIMMER SPEED HALOGEN
		101–105	Tungsten Fade ON
		106–110	Tungsten Fade OFF
		111–120	LINEAR
		121–130	SQUARE LAW
		131–140	INV SQUARE LAW
		141–150	S-CURVE
		151–160	1200Hz
		161–170	2400Hz
		171–180	4000Hz
		181–190	6000Hz
		191–200	25000Hz
		201–210	ALL RESET
		211–255	RESERVED

9 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	70 W
Luminous flux	2,671 lm
Color temperature	6,000 K
Color rendering index (CRI)	95
Optics	
Beam angle	25°
Control	
DMX connection	5-pin XLR IN/OUT
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	30 W
Power connectors	powerCON TRUE1 IN
Dimensions and construction	
Weight	7.5 kg
Operating environment	
Operating temperature	-20 to 45 °C

Spot diameter



Distance	Ø 25°
2 m	0.89 m
4 m	1.8 m
6 m	2.7 m
8 m	3.5 m
10 m	4.4 m
15 m	6.7 m

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

10 Maintenance and cleaning

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

service center.

- How often to clean depends on the environment; dust, smoke and fog make the device dirty much faster.

11 Troubleshooting

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

12 Disposal

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

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

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

Recycle the packaging materials according to their type.