DMX REFERENCE

Robin iSpiiderX

Robe Lighting



Manufacturer	Robe Lighting
GDTF file	Robe_Lighting_Robin_iSpiiderX_162015.gdtf
GDTF revision	2026-09-24 Photometrics added
Generated	2026-11-24

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1 About this manual

This document describes the Robin iSpiiderX® by Robe Lighting. It was compiled from the GDTF file Robe_Lighting_Robin_iSpiiderX_162015.gdtf from the GDTF-Share library.

File revision: “2026-09-24 Photometrics added”.

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 Robe Lighting; 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	660 W
Weight	18 kg
Ingress protection	IP65

DMX modes

Mode	Channels	Units in one universe	First start addresses
Mode 10 - Pattern full RGBW	123	4	1, 124, 247, 370
Mode 9 - Pattern full RGB	104	4	1, 105, 209, 313
Mode 8 - Pixel RGBW	110	4	1, 111, 221, 331
Mode 7 - Pixel RGB	91	5	1, 92, 183, 274, ...
Mode 6 - Pattern	47	10	1, 48, 95, 142, ...
Mode 5 - Wash	27	18	1, 28, 55, 82, ...
Mode 1 - Zones	49	10	1, 50, 99, 148, ...
Mode 2 - Basic	27	18	1, 28, 55, 82, ...
Mode 3 - Advanced	33	15	1, 34, 67, 100, ...
Mode 4 - Full RGBW	90	5	1, 91, 181, 271, ...



Read the manual before use



Risk of electric shock



Do not stare into the light

3 Safety instructions



Read the manual before use



Risk of electric shock



Do not stare into the light

⚠ 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.

⚠ CAUTION

- The device is rated IP65 and may be used outdoors within the limits of this rating.
- This protection is effective only when all connectors are mated or closed with their protective caps and all seals are intact. Use cables and connectors with the same or a higher protection rating.
- Do not open the housing; opening it breaks the seals and the protection rating can no longer be guaranteed.
- Install the device so that water cannot collect around connectors and cable glands, and inspect seals and cables regularly.

⚠ 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.

⚠ WARNING

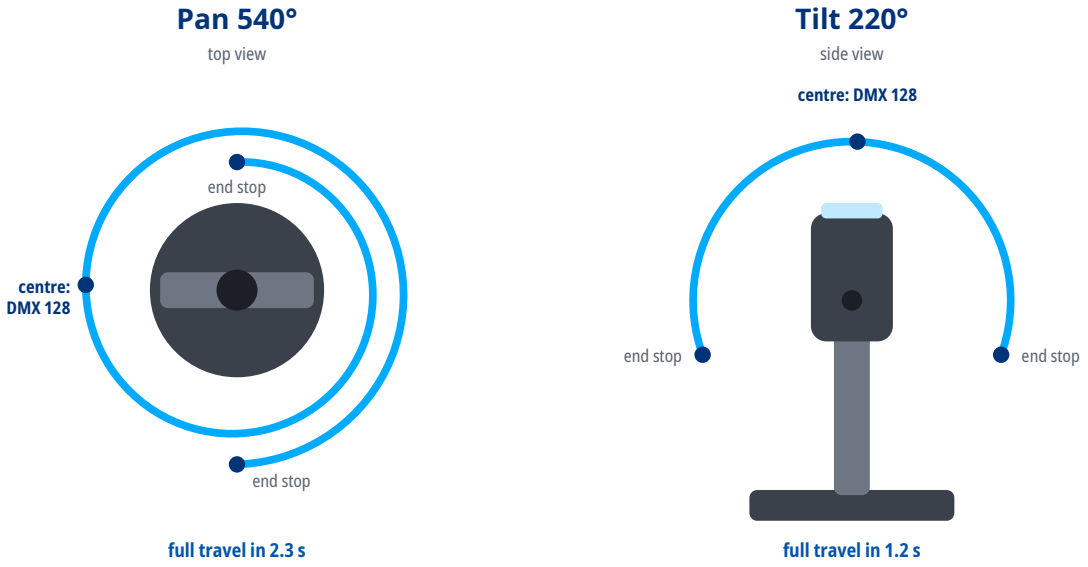
- The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
- Keep yourself and any objects out of the range of movement. While the device is switched on, do not touch the moving parts, move them by hand, or obstruct their movement; this can cause injury (pinching) and damage the drive.
- Do not carry the device by its moving parts. If the device has a transport lock, engage it before transport and release it before switching on.

4 Product description

Description in the GDTF file

“Introducing the iSpiiderX®, a pinnacle of cutting-edge design, construction, and protection technology. Evolving from the esteemed legacy of its predecessor, the original iSpiider®, this high-performance fixture boasts an IP65 rating, ensuring resilience against any weather conditions.”

Range of movement



Full-travel times as stated in the GDTF file.

5 Installation

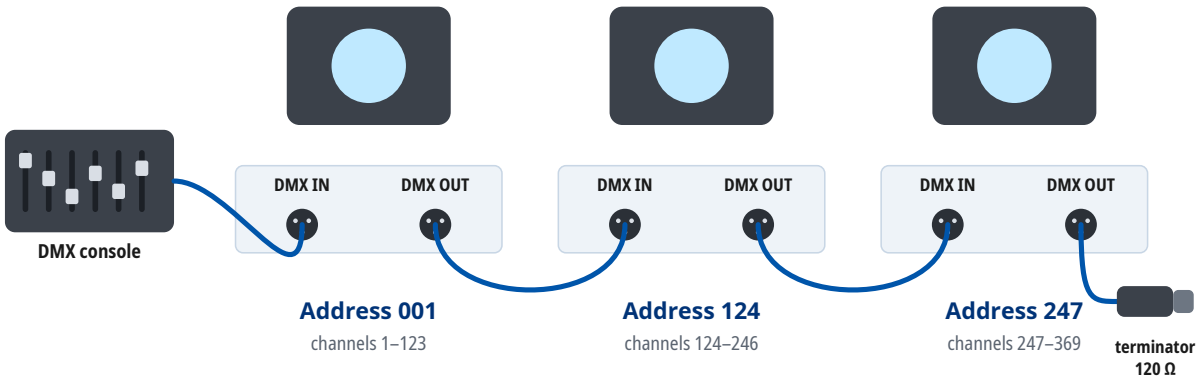
⚠ WARNING

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 18 kg.
- Use suitable mounting hardware (for example truss clamps) and tighten all screw connections properly.
- Always secure the suspended device against falling with a safety cable of adequate load capacity, routed through a fixed point of the device and around the supporting structure.
- During installation and removal, keep people out of the area below the work position.
- Regularly inspect the fixings and the safety cable for damage, corrosion and loosening.

6 Connections

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

DMX line



Mode 10 - Pattern full RGBW: every unit occupies 123 channels from its address. At most 32 units on one line; for more units or longer runs use a DMX splitter. A 120 Ω terminator closes the last DMX OUT.

7 Operation

Setting the DMX address

- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Mode 10 - Pattern full RGBW”: 123.
- 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 “Mode 10 - Pattern full RGBW”, you can use, for example, the start addresses 1, 124, 247, 370.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.
- The device supports RDM (Remote Device Management), two-way communication with the controller over the DMX line.

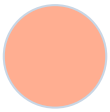
8 Functions at a glance

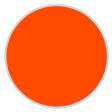
Functions in each DMX mode

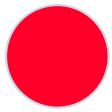
	Mode 10 - Pattern full RGBW 123 channels	Mode 9 - Pattern full RGB 104 channels	Mode 8 - Pixel RGBW 110 channels	Mode 7 - Pixel RGB 91 channels	Mode 6 - Pattern 47 channels	Mode 5 - Wash 27 channels	Mode 1 - Zones 49 channels	Mode 2 - Basic 27 channels
Pan / Tilt	**1, 3**	**1, 3**	**1, 3**	**1, 3**	**1, 3**	**1, 3**	**1, 3**	**1, 3**
Dimmer	4 channels (18–46)	4 channels (18–46)	**18, 29, 33**	**18, 29, 33**	4 channels (18–46)	**14, 24, 27**	**44, 48**	**24, 27**
Dimmer resolution	16 bit	16 bit	16 bit	16 bit	16 bit	8 bit	16 bit	8 bit
Shutter / strobe	4 channels (17–45)	4 channels (17–45)	**17, 28, 32**	**17, 28, 32**	4 channels (17–45)	**13, 23, 26**	**43, 47**	**23, 26**
Color mixing	72 channels (8–112)	69 channels (8–104)	68 channels (8–99)	65 channels (8–91)	12 channels (8–41)	**8–11, 18–21**	16 channels (8–41)	**8–11, 18–21**
Color temperature	**16**	**16**	**16**	**16**	**16**	**12**	**32**	**12**
Color wheel	**7**	**7**	**7**	**7**	**7**	**7**	**7**	**7**
Zoom	**30**	**30**	**30**	**30**	**30**	**25**	**45**	**25**
Effects / macros	**27, 42**	**27, 42**	**27**	**27**	**27, 42**	**22**	**34–36, 42**	**14–16, 22**
Pixel control	**19 cells**	**19 cells**	**19 cells**	**19 cells**	✓	✓	✓	

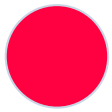
Color wheel

1
No function
DMX 0

2 
Filter 4 (Medium Bastard Amber)
DMX 1–2

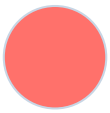
3 
Filter 25 (Sunset red)
DMX 3–4

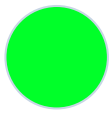
4 
Filter 19 (Fire)
DMX 5–6

5 
Filter 26 (Bright Red)
DMX 7–8

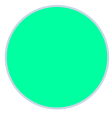
6 
Filter 58 (Lavender)
DMX 9–10

7 
Filter 68 (Sky Blue)
DMX 11–12

8 
Fliter 36 (Medium Pink)
DMX 13–14

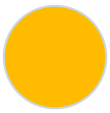
9 
Filter 89 (Moss Green)
DMX 15–16

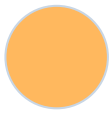
10
Filter 88 (Lime Green)
DMX 17–18

11 
Filter 90 (Dark Yellow Green)
DMX 19–20

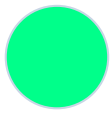
12 
Filter 49 (Medium Purple)
DMX 21–22

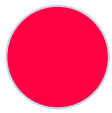
13 
Filter 52 (Light Lavender)
DMX 23–24

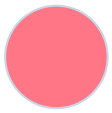
14 
Filter 102 (Light Amber)
DMX 25–26

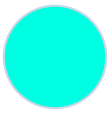
15 
Filter 103 (Straw)
DMX 27–28

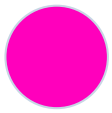
16
Filter 140 (Summer Blue)
DMX 29–30

17 
Fliter 124 (Dark Green)
DMX 31–32

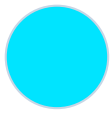
18 
Filter 106 (Primary Red)
DMX 33–34

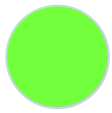
19 
Filter 111 (Dark Pink)
DMX 35–36

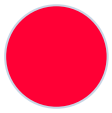
20 
Filter 115 (Peacock Blue)
DMX 37–38

21 
Filter 126 (Mauve)
DMX 39–40

22
Filter 117 (Steel Blue)
DMX 41–42

23 
Filter 118 (Light Blue)
DMX 43–44

24 
Filter 122 (Fern Green)
DMX 45–46

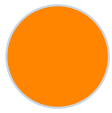
25 
Filter 182 (Light Red)
DMX 47–48

26
Filter 121 (Filter Green)
DMX 49–50

27 
Filter 128 (Bright Pink)
DMX 51–52

28
Filter 131 (Marine Blue)
DMX 53–54

29 
Filter 132 (Medium Blue)
DMX 55–56

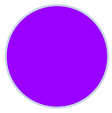
30 
Filter 134 (Golden Amber)
DMX 57–58

31 
Filter 135 (Deep Golden Amber)
DMX 59–60

32
Filter 136 (Pale Lavender)
DMX 61–62

33 
Filter 137 (Special Lavender)
DMX 63–64

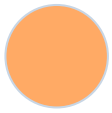
34
Filter 138 (Pale Green)
DMX 65–66

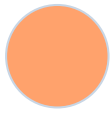
35 
Filter 798 (Chrysalis Pink)
DMX 67–68

36 
Filter 141 (Bright Blue)
DMX 69–70

37 
Filter 147 (Apricot)
DMX 71–72

38 
Filter 148 (Bright Rose)
DMX 73–74

39 
Filter 152 (Pale Gold)
DMX 75–76

40 
Filter 154 (Pale Rose)
DMX 77–78

41
Filter 157 (Pink)
DMX 79–80

42
Filter 143 (Pale Navy Blue)
DMX 81–82

43
Filter 162 (Bastard Amber)
DMX 83–84

44
Filter 164 (Flame Red)
DMX 85–86

45
Filter 165 (Daylight Blue)
DMX 87–88

46
Filter 169 (Lilac Tint)
DMX 89–90

47
Filter 170 (Deep Lavender)
DMX 91–92

48
Filter 172 (Lagoon Blue)
DMX 93–94

49 Filter 194 (Surprise Pink)
DMX 95–96

50 Filter 180 (Dark Lavender)
DMX 97–98

51 Filter 181 (Congo Blue)
DMX 99–100

52 Filter 197 (Alice Blue)
DMX 101–102

53 Filter 201 (Full CT Blue)
DMX 103–104

54 Filter 202 (Half CT Blue)
DMX 105–106

55 Filter 203 (Quarter CT Blue)
DMX 107–108

56 Filter 204 (Full CT Orange)
DMX 109–110

57 Filter 219 (Fluorescent Green)
DMX 111–112

58 Filter 206 (Quarter CT Orange)
DMX 113–114

59 Filter 247 (Filter Minus Green)
DMX 115–116

60 Filter 248 (Half Minus Green)
DMX 117–118

61 Filter 281 (Three Quarter CT Blue)
DMX 119–120

62 Filter 285 (Three Quarter CT Orange)
DMX 121–122

63 Filter 352 (Glacier Blue)
DMX 123–124

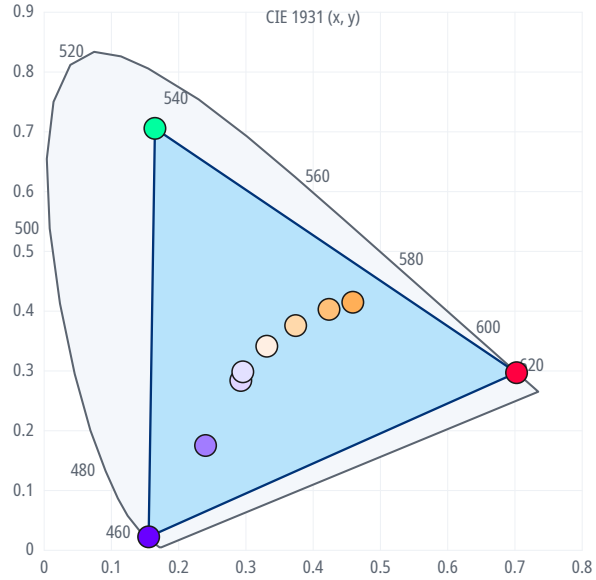
64 Filter 353 (Lighter Blue)
DMX 125–126

65 Filter 507 (Madge)
DMX 127–128

66 Filter 778 (Millennium Gold)
DMX 129–130

67 Filter 793 (Vanity Fair)
DMX 131–132

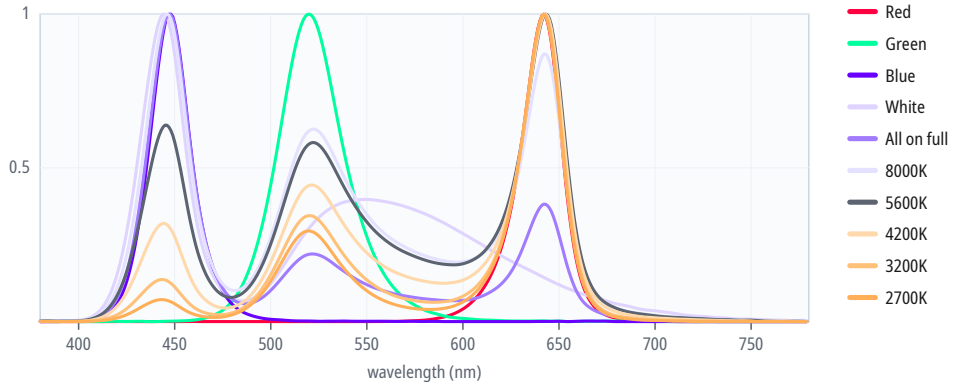
LED colors and the colors they mix



LED	x	y	nm
Red	0.702	0.297	627
Green	0.165	0.706	524
Blue	0.155	0.023	452
White	0.292	0.284	
All on full	0.240	0.175	456
8000K	0.295	0.299	
5600K	0.331	0.341	
4200K	0.374	0.376	
3200K	0.424	0.403	
2700K	0.459	0.415	

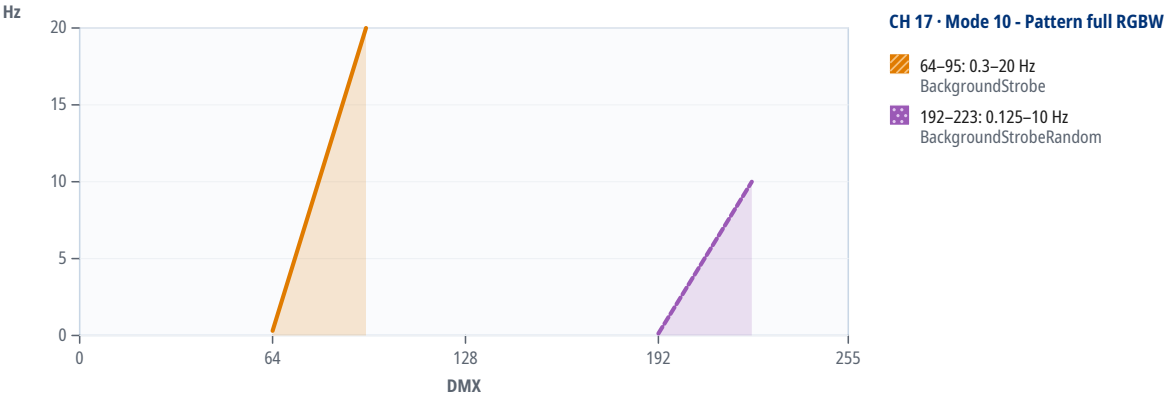
The shaded area holds the colors the LEDs can mix; the dots are the LED colors the GDTF file states.

Spectra of the light sources

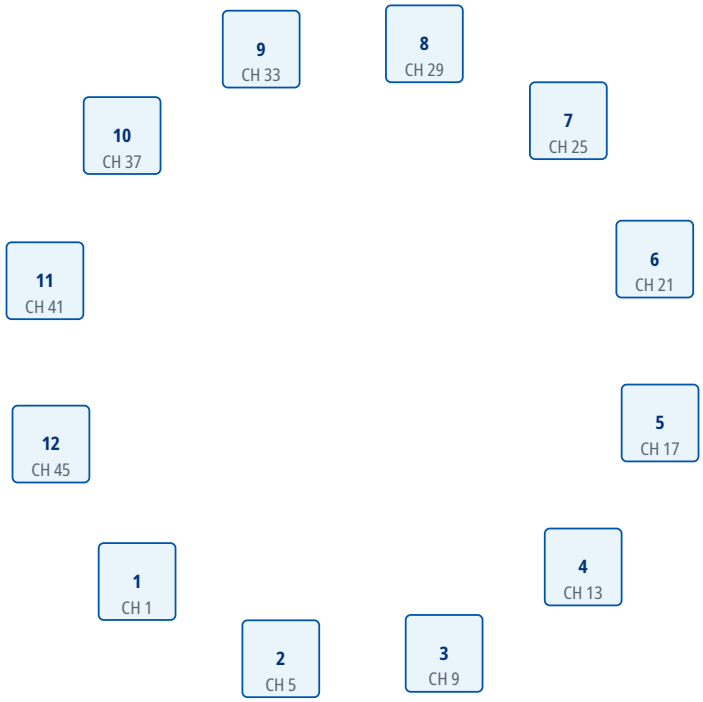


Relative spectrum of each light source as the GDTF file states it; each curve is scaled to its own maximum.

Strobe rate



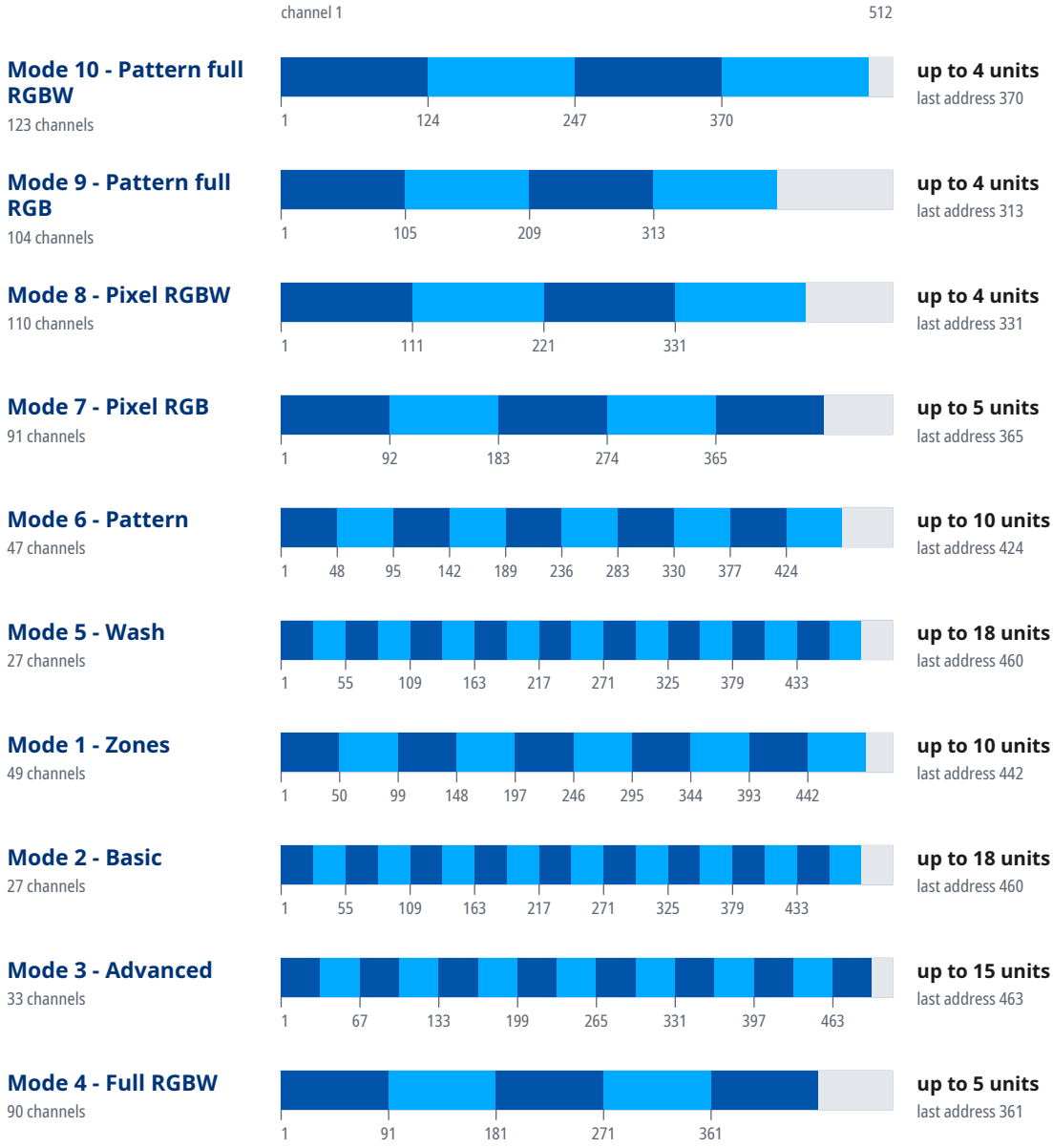
Cells (pixels)



12 cells where the GDTF file places them (seen from above), numbered by their first DMX channel (CH) in the mode “Mode 10 - Pattern full RGBW”.

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Mode 10 - Pattern full RGBW”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	U2 · 124	11	U3 · 247	16	U4 · 370
2	124	7	U2 · 247	12	U3 · 370	17	U5 · 1
3	247	8	U2 · 370	13	U4 · 1	18	U5 · 124
4	370	9	U3 · 1	14	U4 · 124	19	U5 · 247
5	U2 · 1	10	U3 · 124	15	U4 · 247	20	U5 · 370

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.

RDM personalities

Mode	Channels	RDM personality
Mode 10 - Pattern full RGBW	123	10
Mode 9 - Pattern full RGB	104	9
Mode 8 - Pixel RGBW	110	8
Mode 7 - Pixel RGB	91	7
Mode 6 - Pattern	47	6
Mode 5 - Wash	27	5
Mode 1 - Zones	49	1
Mode 2 - Basic	27	2
Mode 3 - Advanced	33	3
Mode 4 - Full RGBW	90	4

Mode 10 - Pattern full RGBW

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 17 Shutter 1 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 18 Dimmer 1 above 0; CH 28 Shutter 2 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 29 Dimmer 2 above 0; CH 43 Shutter 3 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 44 Dimmer 3 above 0; CH 45 Shutter 4 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 46 Dimmer 4 above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 White 1 255, CH 16 CTO 0, CH 17 Shutter 1 32, CH 18 Dimmer 1 255, CH 38 Red 3 255, CH 39 Green 3 255, CH 40 Blue 3 255, CH 41 White 3 255, CH 42 Color Macro 2 0, CH 43 Shutter 3 32, CH 44 Dimmer 3 255, CH 45 Shutter 4 32, CH 46 Dimmer 4 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Pan
		128	Center
		128–255	Pan
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–127	Tilt
		128	Center
		128–255	Tilt
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0	Max
		1–254	Max ... min
		255	Min
6	Control	0–9	No function
		10–14	Wired DMX
		15–19	Wireless DMX
		20–24	Display ON
		25–29	Display OFF
		30–34	RGBW colour mixing mode
		35–39	CMY colour mixing mode
		40–44	Tilt speed mode
		45–49	Tilt time mode
		50–54	Blackout while tilt moving
		55–59	Disabled blackout while tilt moving
		60–64	Dimmer curve Square law
		65–69	Dimmer curve Linear
		70–74	Fans mode Auto
		75–79	Fans mode High
		80–84	White point 8000K On
		85–89	White point 8000K Off
		90–109	Reserved 2
		110–114	Kling-Net On
		115–119	Kling-Net Off
		120–124	Parking position On
		125–129	Parking position Off
		130–139	Fixture reset (except Tilt)
		140–149	Tilt reset
		150–159	Zoom reset
		160–169	Flower effects reset
		170–171	Tungsten effect simulation 750W
		172–173	Tungsten effect simulation 1000W
		174–175	Tungsten effect simulation 1200W

CH	Function	DMX	Description
6	Control (continued)	176–177	Tungsten effect simulation 2000W
		178–179	Tungsten effect simulation 2500W
		180–181	Tungsten effect simulation Off
		182–184	Reserved 3
		185	PWM output frequency of LEDs: Standard (600Hz)
		186	PWM output frequency of LEDs: High (Constant LED current)
		187–192	LED Frequency (step -6...-1)
		193	LED Frequency (Standard or High)
		194–199	LED Frequency (step +1...6)
		200–209	Total fixture reset
		210	PixelIndex min
		211–226	PixelIndex min ... PixelIndex max
		227	PixelIndex max
		228–229	Pixel mirror On
		230–231	Pixel mirror Off
		232–236	Pixel Index: No function
		237	Save Pixel index and Mirror to fixture
		238–239	RoboSpot enabled
		240–241	RoboSpot disabled - except handle faders and p/t
		242–243	RoboSpot fully disabled
		244–255	No function
7	Colors	0	No function
		1–2	Filter 4 (Medium Bastard Amber)
		3–4	Filter 25 (Sunset red)
		5–6	Filter 19 (Fire)
		7–8	Filter 26 (Bright Red)
		9–10	Filter 58 (Lavender)
		11–12	Filter 68 (Sky Blue)
		13–14	Fliter 36 (Medium Pink)
		15–16	Filter 89 (Moss Green)
		17–18	Filter 88 (Lime Green)
		19–20	Filter 90 (Dark Yellow Green)
		21–22	Filter 49 (Medium Purple)
		23–24	Filter 52 (Light Lavender)
		25–26	Filter 102 (Light Amber)
		27–28	Filter 103 (Straw)
		29–30	Filter 140 (Summer Blue)
		31–32	Fliter 124 (Dark Green)
		33–34	Filter 106 (Primary Red)
		35–36	Filter 111 (Dark Pink)
		37–38	Filter 115 (Peacock Blue)

CH	Function	DMX	Description
7	Colors (continued)	39–40	Filter 126 (Mauve)
		41–42	Filter 117 (Steel Blue)
		43–44	Filter 118 (Light Blue)
		45–46	Filter 122 (Fern Green)
		47–48	Filter 182 (Light Red)
		49–50	Filter 121 (Filter Green)
		51–52	Filter 128 (Bright Pink)
		53–54	Filter 131 (Marine Blue)
		55–56	Filter 132 (Medium Blue)
		57–58	Filter 134 (Golden Amber)
		59–60	Filter 135 (Deep Golden Amber)
		61–62	Filter 136 (Pale Lavender)
		63–64	Filter 137 (Special Lavender)
		65–66	Filter 138 (Pale Green)
		67–68	Filter 798 (Chrysalis Pink)
		69–70	Filter 141 (Bright Blue)
		71–72	Filter 147 (Apricot)
		73–74	Filter 148 (Bright Rose)
		75–76	Filter 152 (Pale Gold)
		77–78	Filter 154 (Pale Rose)
		79–80	Filter 157 (Pink)
		81–82	Filter 143 (Pale Navy Blue)
		83–84	Filter 162 (Bastard Amber)
		85–86	Filter 164 (Flame Red)
		87–88	Filter 165 (Daylight Blue)
		89–90	Filter 169 (Lilac Tint)
		91–92	Filter 170 (Deep Lavender)
		93–94	Filter 172 (Lagoon Blue)
		95–96	Filter 194 (Surprise Pink)
		97–98	Filter 180 (Dark Lavender)
		99–100	Filter 181 (Congo Blue)
		101–102	Filter 197 (Alice Blue)
		103–104	Filter 201 (Full CT Blue)
		105–106	Filter 202 (Half CT Blue)
		107–108	Filter 203 (Quarter CT Blue)
		109–110	Filter 204 (Full CT Orange)
		111–112	Filter 219 (Fluorescent Green)
		113–114	Filter 206 (Quarter CT Orange)
		115–116	Filter 247 (Filter Minus Green)
		117–118	Filter 248 (Half Minus Green)
		119–120	Filter 281 (Three Quarter CT Blue)

CH	Function	DMX	Description
7	Colors (continued)	121–122	Filter 285 (Three Quarter CT Orange)
		123–124	Filter 352 (Glacier Blue)
		125–126	Filter 353 (Lighter Blue)
		127–128	Filter 507 (Madge)
		129–130	Filter 778 (Millennium Gold)
		131–132	Filter 793 (Vanity Fair)
		133–235	Raw DMX
		236–245	Ranbow effect (with fade time) from slow to fast
		246–255	Ranbow effect (without fade time) from slow to fast
8	Red 1		Background Red
		0–255	Min ... Max
		255	Max
9	Red 1 Fine	0–255	Fine adjustment of CH 8
10	Green 1		Background Green
		0–255	Min ... Max
		255	Max
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1		Background Blue
		0–255	Min ... Max
		255	Max
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	White 1		Background White
		0–255	Min ... Max
		255	Max
15	White 1 Fine	0–255	Fine adjustment of CH 14
16	CTO		Background CTO
		0	8000K
		1–63	8000K ... 5600K
		64	5600K
		65–127	5600K ... 4200K
		128	4200K
		129–191	4200K ... 3200K
		192	3200K
		193–254	3200K ... 2700K
		255	2700K
17	Shutter 1	0–31	Open/Close: Closed
		32–63	Open/Close: Open
		64–67	Background Strobe: Slow to fast 1/12 (0.3–0.353 Hz)
		68–79	Background Strobe: Slow to fast 1/12 ... Slow to fast 6/12 (0.375–2.86 Hz)
		80–82	Background Strobe: Slow to fast 6/12 (3.49–4.48 Hz)

CH	Function	DMX	Description
17	Shutter 1 (continued)	83–94	Background Strobe: Slow to fast 6/12 ... Slow to fast 12/12 (5–17.6 Hz)
		95	Background Strobe: Slow to fast 12/12
		96–127	Shutter open
		128–130	Background Strobe Pulse Open: Slow to fast 1/7 (0.125–0.139 Hz)
		131–134	Background Strobe Pulse Open: Slow to fast 1/7 ... Slow to fast 4/7 (0.147–0.178 Hz)
		135–136	Background Strobe Pulse Open: Slow to fast 4/7 (0.192–0.208 Hz)
		137–140	Background Strobe Pulse Open: Slow to fast 4/7 ... Slow to fast 7/7 (0.227–0.312 Hz)
		141–143	Background Strobe Pulse Open: Slow to fast 7/7 (0.357–0.499 Hz)
		144–145	Background Strobe Pulse Close: Fast to slow 1/7 (0.5–0.416 Hz)
		146–149	Background Strobe Pulse Close: Fast to slow 1/7 ... Fast to slow 4/7 (0.357–0.25 Hz)
		150–151	Background Strobe Pulse Close: Fast to slow 4/7 (0.227–0.208 Hz)
		152–155	Background Strobe Pulse Close: Fast to slow 4/7 ... Fast to slow 7/7 (0.192–0.156 Hz)
		156–159	Background Strobe Pulse Close: Fast to slow 7/7 (0.147–0.125 Hz)
		160–191	Shutter open
		192	Random strobe slow
		193–222	Random strobe slow ... Random strobe fast
		223	Random strobe fast
		224–255	Shutter open
18	Dimmer 1	0–255	Closed ... Open
		255	Open
19	Dimmer 1 Fine	0–255	Fine adjustment of CH 18
20	LED Zone Mode	0–255	
21	Color Mix Mode	0–9	Global colors
		10–19	Maximum mode
		20–29	Minimum mode
		30–39	Multiply mode
		40–49	Addition mode
		50–59	Subtraction mode
		60–69	Inverted subtraction mode
		70–79	Colored background
		80–127	No function
		128	Global colors
		129–254	Crossfade

CH	Function	DMX	Description
21	Color Mix Mode (continued)	255	Pixel colors
22	Flower Effect	0	Open position/Flower Effect Off
		1–24	Fast to slow 1/7
		25–49	Fast to slow 2/7
		50–74	Fast to slow 3/7
		75–99	Fast to slow 4/7
		100–119	Fast to slow 5/7
		120–124	Fast to slow 6/7
		125–127	Fast to slow 7/7
		128	No rotation middle
		129–131	Slow to fast 1/7
		132–136	Slow to fast 2/7
		137–156	Slow to fast 3/7
		157–181	Slow to fast 4/7
		182–206	Slow to fast 5/7
		207–232	Slow to fast 6/7
		233–255	Slow to fast 7/7
23	Red 2		Flower Red
		0	Min
		1–254	Min ... Max
		255	Max
24	Green 2		Flower Green
		0	Min
		1–254	Min ... Max
		255	Max
25	Blue 2		Flower Blue
		0	Min
		1–254	Min ... Max
		255	Max
26	White 2		Flower White
		0	Min
		1–254	Min ... Max
		255	Max
27	Color Macro 1		Flower Color Macro
		0	Open position
		1–2	Flower Effect color macro 1
		3–4	Flower Effect color macro 2
		5–6	Flower Effect color macro 3
		7–8	Flower Effect color macro 4
		9–10	Flower Effect color macro 5
		11–12	Flower Effect color macro 6

CH	Function	DMX	Description
27	Color Macro 1 (continued)	13–14	Flower Effect color macro 7
		15–16	Flower Effect color macro 8
		17–18	Flower Effect color macro 9
		19–20	Flower Effect color macro 10
		21–22	Flower Effect color macro 11
		23–24	Flower Effect color macro 12
		25–26	Flower Effect color macro 13
		27–28	Flower Effect color macro 14
		29–30	Flower Effect color macro 15
		31–32	Flower Effect color macro 16
		33–34	Flower Effect color macro 17
		35–36	Flower Effect color macro 18
		37–38	Flower Effect color macro 19
		39–40	Flower Effect color macro 20
		41–42	Flower Effect color macro 21
		43–44	Flower Effect color macro 22
		45–46	Flower Effect color macro 23
		47–48	Flower Effect color macro 24
		49–50	Flower Effect color macro 25
		51–52	Flower Effect color macro 26
		53–54	Flower Effect color macro 27
		55–56	Flower Effect color macro 28
		57–58	Flower Effect color macro 29
		59–60	Flower Effect color macro 30
		61–62	Flower Effect color macro 31
		63–64	Flower Effect color macro 32
		65–66	Flower Effect color macro 33
		67–68	Flower Effect color macro 34
		69–70	Flower Effect color macro 35
		71–72	Flower Effect color macro 36
		73–74	Flower Effect color macro 37
		75–76	Flower Effect color macro 38
		77–78	Flower Effect color macro 39
		79–80	Flower Effect color macro 40
		81–82	Flower Effect color macro 41
		83–84	Flower Effect color macro 42
		85–86	Flower Effect color macro 43
		87–88	Flower Effect color macro 44
		89–90	Flower Effect color macro 45
		91–92	Flower Effect color macro 46
		93–94	Flower Effect color macro 47

CH	Function	DMX	Description
27	Color Macro 1 (continued)	95–96	Flower Effect color macro 48
		97–98	Flower Effect color macro 49
		99–100	Flower Effect color macro 50
		101–102	Flower Effect color macro 51
		103–104	Flower Effect color macro 52
		105–106	Flower Effect color macro 53
		107–108	Flower Effect color macro 54
		109–110	Flower Effect color macro 55
		111–112	Flower Effect color macro 56
		113–114	Flower Effect color macro 57
		115–116	Flower Effect color macro 58
		117–118	Flower Effect color macro 59
		119–120	Flower Effect color macro 60
		121–255	Flower Color Macro
28	Shutter 2	0–31	Open/Close: Closed
		32–63	Open/Close: Open
		64–67	Flower Strobe: Slow to fast 1/12 (0.3–0.353 Hz)
		68–79	Flower Strobe: Slow to fast 1/12 ... Slow to fast 6/12 (0.375–2.86 Hz)
		80–82	Flower Strobe: Slow to fast 6/12 (3.49–4.48 Hz)
		83–94	Flower Strobe: Slow to fast 6/12 ... Slow to fast 12/12 (5–17.6 Hz)
		95	Flower Strobe: Slow to fast 12/12
		96–127	Shutter open
		128–130	Flower Strobe Pulse Open: Slow to fast 1/7 (0.125–0.139 Hz)
		131–134	Flower Strobe Pulse Open: Slow to fast 1/7 ... Slow to fast 4/7 (0.147–0.178 Hz)
		135–136	Flower Strobe Pulse Open: Slow to fast 4/7 (0.192–0.208 Hz)
		137–140	Flower Strobe Pulse Open: Slow to fast 4/7 ... Slow to fast 7/7 (0.227–0.312 Hz)
		141–143	Flower Strobe Pulse Open: Slow to fast 7/7 (0.357–0.499 Hz)
		144–145	Flower Strobe Pulse Close: Fast to slow 1/7 (0.5–0.416 Hz)
		146–149	Flower Strobe Pulse Close: Fast to slow 1/7 ... Fast to slow 4/7 (0.357–0.25 Hz)
		150–151	Flower Strobe Pulse Close: Fast to slow 4/7 (0.227–0.208 Hz)
		152–155	Flower Strobe Pulse Close: Fast to slow 4/7 ... Fast to slow 7/7 (0.192–0.156 Hz)
		156–159	Flower Strobe Pulse Close: Fast to slow 7/7 (0.147–0.125 Hz)
		160–191	Shutter open
		192	Random strobe slow
		193–222	Random strobe slow ... Random strobe fast
		223	Random strobe fast
		224–255	Shutter open
29	Dimmer 2	0	Closed

CH	Function	DMX	Description
29	Dimmer 2 (continued)	1–254	Closed ... Open
		255	Open
30	Zoom	0–255	Max beam angle ... Min beam angle
		255	Min beam angle
31	Zoom Fine	0–255	Fine adjustment of CH 30
32	Pattern Selection	0–2	No pattern
		3–4	Pattern 1
		5–6	Pattern 2
		7–8	Pattern 3
		9–10	Pattern 4
		11–12	Pattern 5
		13–14	Pattern 6
		15–16	Pattern 7
		17–18	Pattern 8
		19–20	Pattern 9
		21–22	Pattern 10
		23–24	Pattern 11
		25–26	Pattern 12
		27–255	Reserved
33	Pattern Size	0–2	Variant 1
		3–4	Variant 2
		5–6	Variant 3
		7–8	Variant 4
		9–10	Variant 5
		11–12	Variant 6
		13–14	Variant 7
		15–16	Variant 8
		17–18	Variant 9
		19–20	Variant 10
		21–22	Variant 11
		23–24	Variant 12
		25–26	Variant 13
		27–28	Variant 14
		29–30	Variant 15
		31–32	Variant 16
		33–34	Variant 17
		35–255	Reserved
34	Pattern Rotation	0	No rotation
		1–127	Pattern indexing
		128–190	Forwards rotation - Fast to slow
		191–192	No rotation
		193–255	Backwards rotation - Slow to fast

CH	Function	DMX	Description
35	Pattern Fade	0	Snap
		1	Fade min
		2–254	Fade min ... Fade max
		255	Fade max
36	Pattern Transition	0	No fade
		1	100 ms
		2–254	100 ms ... 4 s
		255	4 s
37	Pattern Crossfade	0	Background
		1–254	Background ... Pattern
		255	Pattern
38	Red 3		Pattern Red
		0	Min
		1–254	Min ... Max
		255	Max
39	Green 3		Pattern Green
		0	Min
		1–254	Min ... Max
		255	Max
40	Blue 3		Pattern Blue
		0	Min
		1–254	Min ... Max
		255	Max
41	White 3		Pattern White
		0	Min
		1–254	Min ... Max
		255	Max
42	Color Macro 2	0–2	No macro
		3–8	Macro 1
		9–14	Macro 2
		15–20	Macro 3
		21–26	Macro 4
		27–32	Macro 5
		33–38	Macro 6
		39–44	Macro 7
		45–50	Macro 8
		51–56	Macro 9
		57–62	Macro 10
		63–68	Macro 11
		69–74	Macro 12
		75–80	Macro 13
		81–86	Macro 14

CH	Function	DMX	Description
42	Color Macro 2 (continued)	87–92	Macro 15
		93–98	Macro 16
		99–104	Macro 17
		105–110	Macro 18
		111–116	Macro 19
		117–122	Macro 20
		123–128	Macro 21
		129–134	Macro 22
		135–140	Macro 23
		141–255	Reserved
43	Shutter 3	0–31	Open/Close: Closed
		32–63	Open/Close: Open
		64–67	Pattern Strobe: Slow to fast 1/12 (0.3–0.353 Hz)
		68–79	Pattern Strobe: Slow to fast 1/12 ... Slow to fast 6/12 (0.375–2.86 Hz)
		80–82	Pattern Strobe: Slow to fast 6/12 (3.49–4.48 Hz)
		83–94	Pattern Strobe: Slow to fast 6/12 ... Slow to fast 12/12 (5–17.6 Hz)
		95	Pattern Strobe: Slow to fast 12/12
		96–127	Shutter open
		128–130	Pattern Strobe Pulse Open: Slow to fast 1/7 (0.125–0.139 Hz)
		131–134	Pattern Strobe Pulse Open: Slow to fast 1/7 ... Slow to fast 4/7 (0.147–0.178 Hz)
		135–136	Pattern Strobe Pulse Open: Slow to fast 4/7 (0.192–0.208 Hz)
		137–140	Pattern Strobe Pulse Open: Slow to fast 4/7 ... Slow to fast 7/7 (0.227–0.312 Hz)
		141–143	Pattern Strobe Pulse Open: Slow to fast 7/7 (0.357–0.499 Hz)
		144–145	Pattern Strobe Pulse Close: Fast to slow 1/7 (0.5–0.416 Hz)
		146–149	Pattern Strobe Pulse Close: Fast to slow 1/7 ... Fast to slow 4/7 (0.357–0.25 Hz)
		150–151	Pattern Strobe Pulse Close: Fast to slow 4/7 (0.227–0.208 Hz)
		152–155	Pattern Strobe Pulse Close: Fast to slow 4/7 ... Fast to slow 7/7 (0.192–0.156 Hz)
		156–159	Pattern Strobe Pulse Close: Fast to slow 7/7 (0.147–0.125 Hz)
		160–191	Shutter open
		192	Random strobe slow
		193–222	Random strobe slow ... Random strobe fast
		223	Random strobe fast
		224–255	Shutter open
44	Dimmer 3		Pattern Dimmer
		0	Closed
		1–254	Closed ... Open
		255	Open
45	Shutter 4	0–31	Open/Close: Closed

CH	Function	DMX	Description
45	Shutter 4 (continued)	32–63	Open/Close: Open
		64–67	Master Strobe: Slow to fast 1/12 (0.3–0.353 Hz)
		68–79	Master Strobe: Slow to fast 1/12 ... Slow to fast 6/12 (0.375–2.86 Hz)
		80–82	Master Strobe: Slow to fast 6/12 (3.49–4.48 Hz)
		83–94	Master Strobe: Slow to fast 6/12 ... Slow to fast 12/12 (5–17.6 Hz)
		95	Master Strobe: Slow to fast 12/12
		96–127	Shutter open
		128–130	Master Strobe Pulse Open: Slow to fast 1/7 (0.125–0.139 Hz)
		131–134	Master Strobe Pulse Open: Slow to fast 1/7 ... Slow to fast 4/7 (0.147–0.178 Hz)
		135–136	Master Strobe Pulse Open: Slow to fast 4/7 (0.192–0.208 Hz)
		137–140	Master Strobe Pulse Open: Slow to fast 4/7 ... Slow to fast 7/7 (0.227–0.312 Hz)
		141–143	Master Strobe Pulse Open: Slow to fast 7/7 (0.357–0.499 Hz)
		144–145	Master Strobe Pulse Close: Fast to slow 1/7 (0.5–0.416 Hz)
		146–149	Master Strobe Pulse Close: Fast to slow 1/7 ... Fast to slow 4/7 (0.357–0.25 Hz)
		150–151	Master Strobe Pulse Close: Fast to slow 4/7 (0.227–0.208 Hz)
		152–155	Master Strobe Pulse Close: Fast to slow 4/7 ... Fast to slow 7/7 (0.192–0.156 Hz)
		156–159	Master Strobe Pulse Close: Fast to slow 7/7 (0.147–0.125 Hz)
		160–191	Shutter open
		192	Random strobe slow
		193–222	Random strobe slow ... Random strobe fast
		223	Random strobe fast
		224–255	Shutter open
46	Dimmer 4		Master Dimmer
		0–255	Closed ... Open
		255	Open
47	Dimmer 4 Fine	0–255	Fine adjustment of CH 46
48	Red 4		Pixel Red
		0	Min
		1–254	Min ... Max
		255	Max
49	Green 4		Pixel Green
		0	Min
		1–254	Min ... Max
		255	Max
50	Blue 4		Pixel Blue
		0	Min
		1–254	Min ... Max
		255	Max

CH	Function	DMX	Description
51	White 4		Pixel White
		0	Min
		1–254	Min ... Max
		255	Max

CH 48–123: 19 cells of 4 channels each. Every cell works as cell 1 in the table above (CH 48–51); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	White	Cell	Red	Green	Blue	White
1	48	49	50	51	2	52	53	54	55
3	56	57	58	59	4	60	61	62	63
5	64	65	66	67	6	68	69	70	71
7	72	73	74	75	8	76	77	78	79
9	80	81	82	83	10	84	85	86	87
11	88	89	90	91	12	92	93	94	95
13	96	97	98	99	14	100	101	102	103
15	104	105	106	107	16	108	109	110	111
17	112	113	114	115	18	116	117	118	119
19	120	121	122	123					

Mode 9 - Pattern full RGB

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 17 Shutter 1 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 18 Dimmer 1 above 0; CH 28 Shutter 2 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 29 Dimmer 2 above 0; CH 43 Shutter 3 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 44 Dimmer 3 above 0; CH 45 Shutter 4 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 46 Dimmer 4 above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 White 1 255, CH 16 CTO 0, CH 17 Shutter 1 32, CH 18 Dimmer 1 255, CH 38 Red 3 255, CH 39 Green 3 255, CH 40 Blue 3 255, CH 41 White 3 255, CH 42 Color Macro 2 0, CH 43 Shutter 3 32, CH 44 Dimmer 3 255, CH 45 Shutter 4 32, CH 46 Dimmer 4 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
6	Control		Same as CH 6 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
7	Colors		Same as CH 7 in the mode “Mode 10 - Pattern full RGBW” (p. 16)
8	Red 1		Same as CH 8 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
9	Red 1 Fine	0–255	Fine adjustment of CH 8
10	Green 1		Same as CH 10 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1		Same as CH 12 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	White 1		Same as CH 14 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
15	White 1 Fine	0–255	Fine adjustment of CH 14
16	CTO		Same as CH 16 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
17	Shutter 1		Same as CH 17 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
18	Dimmer 1		Same as CH 18 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
19	Dimmer 1 Fine	0–255	Fine adjustment of CH 18
20	LED Zone Mode	0–255	
21	Color Mix Mode		Same as CH 21 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
22	Flower Effect		Same as CH 22 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
23	Red 2		Same as CH 23 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
24	Green 2		Same as CH 24 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
25	Blue 2		Same as CH 25 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
26	White 2		Same as CH 26 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
27	Color Macro 1		Same as CH 27 in the mode “Mode 10 - Pattern full RGBW” (p. 20)

CH	Function	DMX	Description
28	Shutter 2		Same as CH 28 in the mode “Mode 10 - Pattern full RGBW” (p. 22)
29	Dimmer 2		Same as CH 29 in the mode “Mode 10 - Pattern full RGBW” (p. 22)
30	Zoom		Same as CH 30 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
31	Zoom Fine	0–255	Fine adjustment of CH 30
32	Pattern Selection		Same as CH 32 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
33	Pattern Size		Same as CH 33 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
34	Pattern Rotation		Same as CH 34 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
35	Pattern Fade		Same as CH 35 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
36	Pattern Transition		Same as CH 36 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
37	Pattern Crossfade		Same as CH 37 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
38	Red 3		Same as CH 38 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
39	Green 3		Same as CH 39 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
40	Blue 3		Same as CH 40 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
41	White 3		Same as CH 41 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
42	Color Macro 2		Same as CH 42 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
43	Shutter 3		Same as CH 43 in the mode “Mode 10 - Pattern full RGBW” (p. 25)
44	Dimmer 3		Same as CH 44 in the mode “Mode 10 - Pattern full RGBW” (p. 25)
45	Shutter 4		Same as CH 45 in the mode “Mode 10 - Pattern full RGBW” (p. 25)
46	Dimmer 4		Same as CH 46 in the mode “Mode 10 - Pattern full RGBW” (p. 26)
47	Dimmer 4 Fine	0–255	Fine adjustment of CH 46
48	Red 4		Pixel Red
		0	Min
		1–254	Min ... Max
		255	Max
49	Green 4		Pixel Green
		0	Min
		1–254	Min ... Max
		255	Max

CH	Function	DMX	Description
50	Blue 4		Pixel Blue
		0	Min
		1–254	Min ... Max
		255	Max

CH 48–104: 19 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 48–50); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	48	49	50	2	51	52	53	3	54	55	56
4	57	58	59	5	60	61	62	6	63	64	65
7	66	67	68	8	69	70	71	9	72	73	74
10	75	76	77	11	78	79	80	12	81	82	83
13	84	85	86	14	87	88	89	15	90	91	92
16	93	94	95	17	96	97	98	18	99	100	101
19	102	103	104								

Mode 8 - Pixel RGBW

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 17 Shutter 1 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 18 Dimmer 1 above 0; CH 28 Shutter 2 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 29 Dimmer 2 above 0; CH 32 Shutter 3 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 33 Dimmer 3 above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 White 1 255, CH 16 CTO 0, CH 17 Shutter 1 32, CH 18 Dimmer 1 255, CH 32 Shutter 3 32, CH 33 Dimmer 3 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
6	Control		Same as CH 6 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
7	Colors		Same as CH 7 in the mode “Mode 10 - Pattern full RGBW” (p. 16)
8	Red 1		Same as CH 8 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
9	Red 1 Fine	0–255	Fine adjustment of CH 8

CH	Function	DMX	Description
10	Green 1		Same as CH 10 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1		Same as CH 12 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	White 1		Same as CH 14 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
15	White 1 Fine	0–255	Fine adjustment of CH 14
16	CTO		Same as CH 16 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
17	Shutter 1		Same as CH 17 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
18	Dimmer 1		Same as CH 18 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
19	Dimmer 1 Fine	0–255	Fine adjustment of CH 18
20	LED Zone Mode	0–255	
21	Color Mix Mode		Same as CH 21 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
22	Flower Effect		Same as CH 22 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
23	Red 2		Same as CH 23 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
24	Green 2		Same as CH 24 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
25	Blue 2		Same as CH 25 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
26	White 2		Same as CH 26 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
27	Color Macro		Flower Color Macro
		0	Open position
		1–2	Flower Effect color macro 1
		3–4	Flower Effect color macro 2
		5–6	Flower Effect color macro 3
		7–8	Flower Effect color macro 4
		9–10	Flower Effect color macro 5
		11–12	Flower Effect color macro 6
		13–14	Flower Effect color macro 7
		15–16	Flower Effect color macro 8
		17–18	Flower Effect color macro 9
		19–20	Flower Effect color macro 10
		21–22	Flower Effect color macro 11
		23–24	Flower Effect color macro 12
		25–26	Flower Effect color macro 13
		27–28	Flower Effect color macro 14

CH	Function	DMX	Description
27	Color Macro (continued)	29–30	Flower Effect color macro 15
		31–32	Flower Effect color macro 16
		33–34	Flower Effect color macro 17
		35–36	Flower Effect color macro 18
		37–38	Flower Effect color macro 19
		39–40	Flower Effect color macro 20
		41–42	Flower Effect color macro 21
		43–44	Flower Effect color macro 22
		45–46	Flower Effect color macro 23
		47–48	Flower Effect color macro 24
		49–50	Flower Effect color macro 25
		51–52	Flower Effect color macro 26
		53–54	Flower Effect color macro 27
		55–56	Flower Effect color macro 28
		57–58	Flower Effect color macro 29
		59–60	Flower Effect color macro 30
		61–62	Flower Effect color macro 31
		63–64	Flower Effect color macro 32
		65–66	Flower Effect color macro 33
		67–68	Flower Effect color macro 34
		69–70	Flower Effect color macro 35
		71–72	Flower Effect color macro 36
		73–74	Flower Effect color macro 37
		75–76	Flower Effect color macro 38
		77–78	Flower Effect color macro 39
		79–80	Flower Effect color macro 40
		81–82	Flower Effect color macro 41
		83–84	Flower Effect color macro 42
		85–86	Flower Effect color macro 43
		87–88	Flower Effect color macro 44
		89–90	Flower Effect color macro 45
		91–92	Flower Effect color macro 46
		93–94	Flower Effect color macro 47
		95–96	Flower Effect color macro 48
		97–98	Flower Effect color macro 49
		99–100	Flower Effect color macro 50
		101–102	Flower Effect color macro 51
		103–104	Flower Effect color macro 52
		105–106	Flower Effect color macro 53
		107–108	Flower Effect color macro 54
		109–110	Flower Effect color macro 55
		111–112	Flower Effect color macro 56

CH	Function	DMX	Description
27	Color Macro (continued)	113–114	Flower Effect color macro 57
		115–116	Flower Effect color macro 58
		117–118	Flower Effect color macro 59
		119–120	Flower Effect color macro 60
		121–255	Flower Color Macro
28	Shutter 2		Same as CH 28 in the mode “Mode 10 - Pattern full RGBW” (p. 22)
29	Dimmer 2		Same as CH 29 in the mode “Mode 10 - Pattern full RGBW” (p. 22)
30	Zoom		Same as CH 30 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
31	Zoom Fine	0–255	Fine adjustment of CH 30
32	Shutter 3	0–31	Open/Close: Closed
		32–63	Open/Close: Open
		64–67	Master Strobe: Slow to fast 1/12 (0.3–0.353 Hz)
		68–79	Master Strobe: Slow to fast 1/12 ... Slow to fast 6/12 (0.375–2.86 Hz)
		80–82	Master Strobe: Slow to fast 6/12 (3.49–4.48 Hz)
		83–94	Master Strobe: Slow to fast 6/12 ... Slow to fast 12/12 (5–17.6 Hz)
		95	Master Strobe: Slow to fast 12/12
		96–127	Shutter open
		128–130	Master Strobe Pulse Open: Slow to fast 1/7 (0.125–0.139 Hz)
		131–134	Master Strobe Pulse Open: Slow to fast 1/7 ... Slow to fast 4/7 (0.147–0.178 Hz)
		135–136	Master Strobe Pulse Open: Slow to fast 4/7 (0.192–0.208 Hz)
		137–140	Master Strobe Pulse Open: Slow to fast 4/7 ... Slow to fast 7/7 (0.227–0.312 Hz)
		141–143	Master Strobe Pulse Open: Slow to fast 7/7 (0.357–0.499 Hz)
		144–145	Master Strobe Pulse Close: Fast to slow 1/7 (0.5–0.416 Hz)
		146–149	Master Strobe Pulse Close: Fast to slow 1/7 ... Fast to slow 4/7 (0.357–0.25 Hz)
		150–151	Master Strobe Pulse Close: Fast to slow 4/7 (0.227–0.208 Hz)
		152–155	Master Strobe Pulse Close: Fast to slow 4/7 ... Fast to slow 7/7 (0.192–0.156 Hz)
		156–159	Master Strobe Pulse Close: Fast to slow 7/7 (0.147–0.125 Hz)
		160–191	Shutter open
		192	Random strobe slow
		193–222	Random strobe slow ... Random strobe fast
		223	Random strobe fast
		224–255	Shutter open
33	Dimmer 3		Master Dimmer
		0–255	Closed ... Open

CH	Function	DMX	Description
33	Dimmer 3 (continued)	255	Open
34	Dimmer 3 Fine	0–255	Fine adjustment of CH 33
35	Red 3		Pixel Red
		0	Min
		1–254	Min ... Max
		255	Max
36	Green 3		Pixel Green
		0	Min
		1–254	Min ... Max
		255	Max
37	Blue 3		Pixel Blue
		0	Min
		1–254	Min ... Max
		255	Max
38	White 3		Pixel White
		0	Min
		1–254	Min ... Max
		255	Max

CH 35–110: 19 cells of 4 channels each. Every cell works as cell 1 in the table above (CH 35–38); the table below gives each cell's channel numbers.

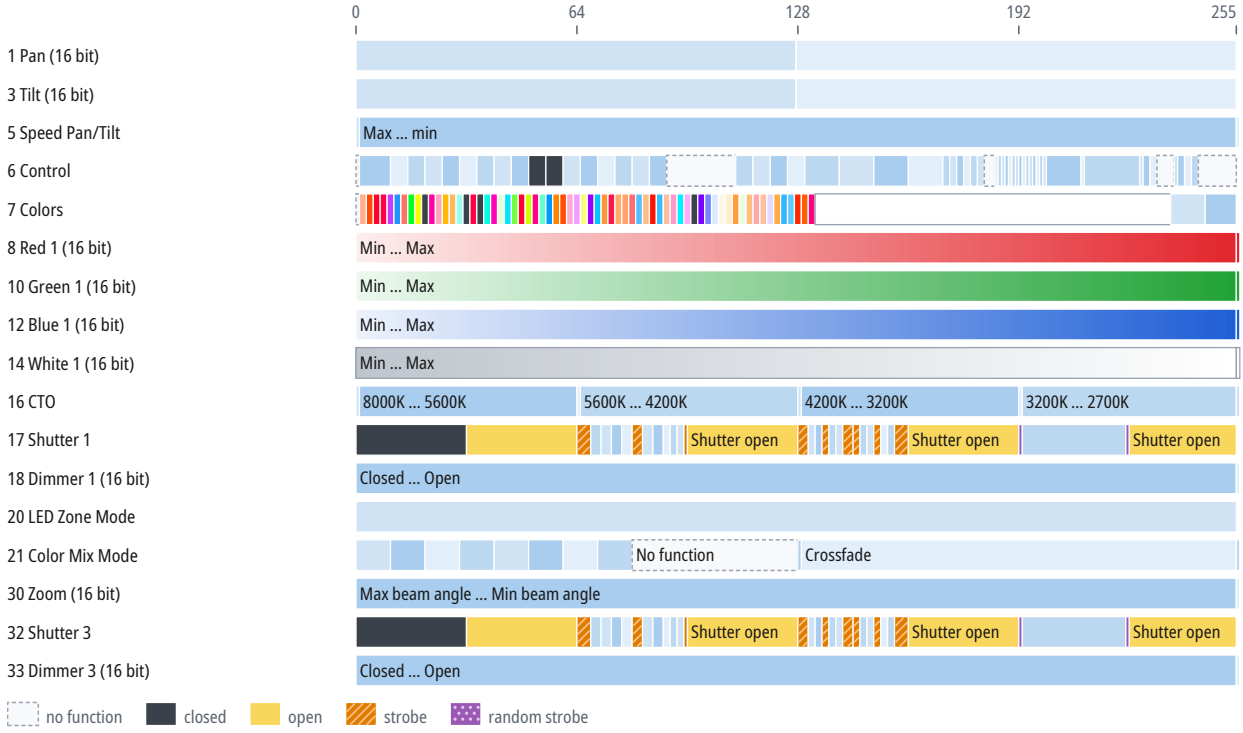
Cell	Red	Green	Blue	White	Cell	Red	Green	Blue	White
1	35	36	37	38	2	39	40	41	42
3	43	44	45	46	4	47	48	49	50
5	51	52	53	54	6	55	56	57	58
7	59	60	61	62	8	63	64	65	66
9	67	68	69	70	10	71	72	73	74
11	75	76	77	78	12	79	80	81	82
13	83	84	85	86	14	87	88	89	90
15	91	92	93	94	16	95	96	97	98
17	99	100	101	102	18	103	104	105	106
19	107	108	109	110					

Mode 7 - Pixel RGB

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 17 Shutter 1 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 18 Dimmer 1 above 0; CH 28 Shutter 2 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 29 Dimmer 2 above 0; CH 32 Shutter 3 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 33 Dimmer 3 above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 White 1 255, CH 16 CTO 0, CH 17 Shutter 1 32, CH 18 Dimmer 1 255, CH 32 Shutter 3 32, CH 33 Dimmer 3 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
6	Control		Same as CH 6 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
7	Colors		Same as CH 7 in the mode “Mode 10 - Pattern full RGBW” (p. 16)
8	Red 1		Same as CH 8 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
9	Red 1 Fine	0–255	Fine adjustment of CH 8

CH	Function	DMX	Description
10	Green 1		Same as CH 10 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1		Same as CH 12 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	White 1		Same as CH 14 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
15	White 1 Fine	0–255	Fine adjustment of CH 14
16	CTO		Same as CH 16 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
17	Shutter 1		Same as CH 17 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
18	Dimmer 1		Same as CH 18 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
19	Dimmer 1 Fine	0–255	Fine adjustment of CH 18
20	LED Zone Mode	0–255	
21	Color Mix Mode		Same as CH 21 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
22	Flower Effect		Same as CH 22 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
23	Red 2		Same as CH 23 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
24	Green 2		Same as CH 24 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
25	Blue 2		Same as CH 25 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
26	White 2		Same as CH 26 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
27	Color Macro		Same as CH 27 in the mode “Mode 8 - Pixel RGBW” (p. 33)
28	Shutter 2		Same as CH 28 in the mode “Mode 10 - Pattern full RGBW” (p. 22)
29	Dimmer 2		Same as CH 29 in the mode “Mode 10 - Pattern full RGBW” (p. 22)
30	Zoom		Same as CH 30 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
31	Zoom Fine	0–255	Fine adjustment of CH 30
32	Shutter 3		Same as CH 32 in the mode “Mode 8 - Pixel RGBW” (p. 35)
33	Dimmer 3		Same as CH 33 in the mode “Mode 8 - Pixel RGBW” (p. 35)
34	Dimmer 3 Fine	0–255	Fine adjustment of CH 33
35	Red 3		Pixel Red
		0	Min
		1–254	Min ... Max
		255	Max
36	Green 3		Pixel Green
		0	Min

CH	Function	DMX	Description
36	Green 3 (continued)	1–254	Min … Max
		255	Max
37	Blue 3		Pixel Blue
		0	Min
		1–254	Min … Max
		255	Max

CH 35–91: 19 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 35–37); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	35	36	37	2	38	39	40	3	41	42	43
4	44	45	46	5	47	48	49	6	50	51	52
7	53	54	55	8	56	57	58	9	59	60	61
10	62	63	64	11	65	66	67	12	68	69	70
13	71	72	73	14	74	75	76	15	77	78	79
16	80	81	82	17	83	84	85	18	86	87	88
19	89	90	91								

Mode 6 - Pattern

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 17 Shutter 1 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 18 Dimmer 1 above 0; CH 28 Shutter 2 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 29 Dimmer 2 above 0; CH 43 Shutter 3 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 44 Dimmer 3 above 0; CH 45 Shutter 4 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 46 Dimmer 4 above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 White 1 255, CH 16 CTO 0, CH 17 Shutter 1 32, CH 18 Dimmer 1 255, CH 38 Red 3 255, CH 39 Green 3 255, CH 40 Blue 3 255, CH 41 White 3 255, CH 42 Color Macro 2 0, CH 43 Shutter 3 32, CH 44 Dimmer 3 255, CH 45 Shutter 4 32, CH 46 Dimmer 4 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
6	Control		Same as CH 6 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
7	Colors		Same as CH 7 in the mode “Mode 10 - Pattern full RGBW” (p. 16)
8	Red 1		Same as CH 8 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
9	Red 1 Fine	0–255	Fine adjustment of CH 8
10	Green 1		Same as CH 10 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1		Same as CH 12 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	White 1		Same as CH 14 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
15	White 1 Fine	0–255	Fine adjustment of CH 14
16	CTO		Same as CH 16 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
17	Shutter 1		Same as CH 17 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
18	Dimmer 1		Same as CH 18 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
19	Dimmer 1 Fine	0–255	Fine adjustment of CH 18
20	LED Zone Mode	0–255	
21	Color Mix Mode		Same as CH 21 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
22	Flower Effect		Same as CH 22 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
23	Red 2		Same as CH 23 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
24	Green 2		Same as CH 24 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
25	Blue 2		Same as CH 25 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
26	White 2		Same as CH 26 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
27	Color Macro 1		Same as CH 27 in the mode “Mode 10 - Pattern full RGBW” (p. 20)

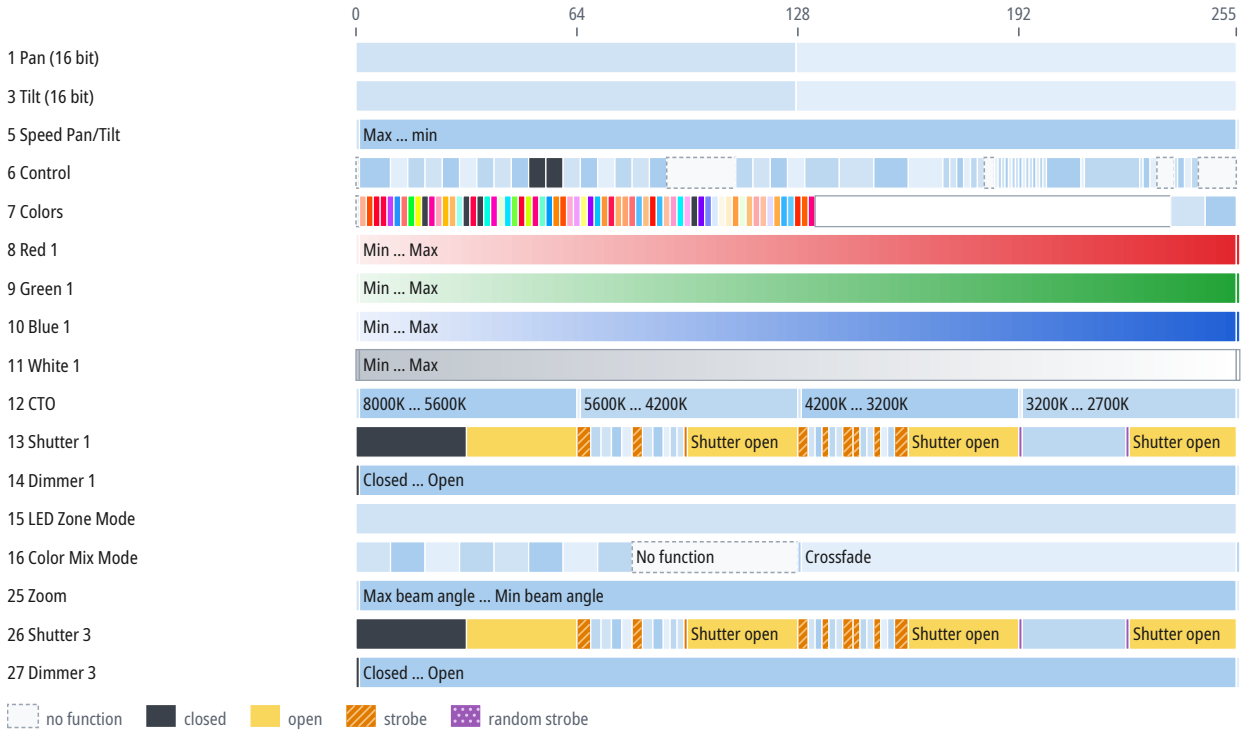
CH	Function	DMX	Description
28	Shutter 2		Same as CH 28 in the mode “Mode 10 - Pattern full RGBW” (p. 22)
29	Dimmer 2		Same as CH 29 in the mode “Mode 10 - Pattern full RGBW” (p. 22)
30	Zoom		Same as CH 30 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
31	Zoom Fine	0–255	Fine adjustment of CH 30
32	Pattern Selection		Same as CH 32 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
33	Pattern Size		Same as CH 33 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
34	Pattern Rotation		Same as CH 34 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
35	Pattern Fade		Same as CH 35 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
36	Pattern Transition		Same as CH 36 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
37	Pattern Crossfade		Same as CH 37 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
38	Red 3		Same as CH 38 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
39	Green 3		Same as CH 39 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
40	Blue 3		Same as CH 40 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
41	White 3		Same as CH 41 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
42	Color Macro 2		Same as CH 42 in the mode “Mode 10 - Pattern full RGBW” (p. 24)
43	Shutter 3		Same as CH 43 in the mode “Mode 10 - Pattern full RGBW” (p. 25)
44	Dimmer 3		Same as CH 44 in the mode “Mode 10 - Pattern full RGBW” (p. 25)
45	Shutter 4		Same as CH 45 in the mode “Mode 10 - Pattern full RGBW” (p. 25)
46	Dimmer 4		Same as CH 46 in the mode “Mode 10 - Pattern full RGBW” (p. 26)
47	Dimmer 4 Fine	0–255	Fine adjustment of CH 46

Mode 5 - Wash

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 13 Shutter 1 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 14 Dimmer 1 above 0; CH 23 Shutter 2 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 24 Dimmer 2 above 0; CH 26 Shutter 3 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 27 Dimmer 3 above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 1 255, CH 9 Green 1 255, CH 10 Blue 1 255, CH 11 White 1 255, CH 12 CTO 0, CH 13 Shutter 1 32, CH 14 Dimmer 1 255, CH 26 Shutter 3 32, CH 27 Dimmer 3 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
6	Control		Same as CH 6 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
7	Colors		Same as CH 7 in the mode “Mode 10 - Pattern full RGBW” (p. 16)
8	Red 1		Background Red
		0	Min
		1–254	Min ... Max

CH	Function	DMX	Description
8	Red 1 (continued)	255	Max
9	Green 1		Background Green
		0	Min
		1–254	Min ... Max
		255	Max
10	Blue 1		Background Blue
		0	Min
		1–254	Min ... Max
		255	Max
11	White 1		Background White
		0	Min
		1–254	Min ... Max
		255	Max
12	CTO		Same as CH 16 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
13	Shutter 1		Same as CH 17 in the mode “Mode 10 - Pattern full RGBW” (p. 18)
14	Dimmer 1	0	Closed
		1–254	Closed ... Open
		255	Open
15	LED Zone Mode	0–255	
16	Color Mix Mode		Same as CH 21 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
17	Flower Effect		Same as CH 22 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
18	Red 2		Same as CH 23 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
19	Green 2		Same as CH 24 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
20	Blue 2		Same as CH 25 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
21	White 2		Same as CH 26 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
22	Color Macro		Same as CH 27 in the mode “Mode 8 - Pixel RGBW” (p. 33)
23	Shutter 2		Same as CH 28 in the mode “Mode 10 - Pattern full RGBW” (p. 22)
24	Dimmer 2		Same as CH 29 in the mode “Mode 10 - Pattern full RGBW” (p. 22)
25	Zoom	0	Max beam angle
		1–254	Max beam angle ... Min beam angle
		255	Min beam angle
26	Shutter 3		Same as CH 32 in the mode “Mode 8 - Pixel RGBW” (p. 35)

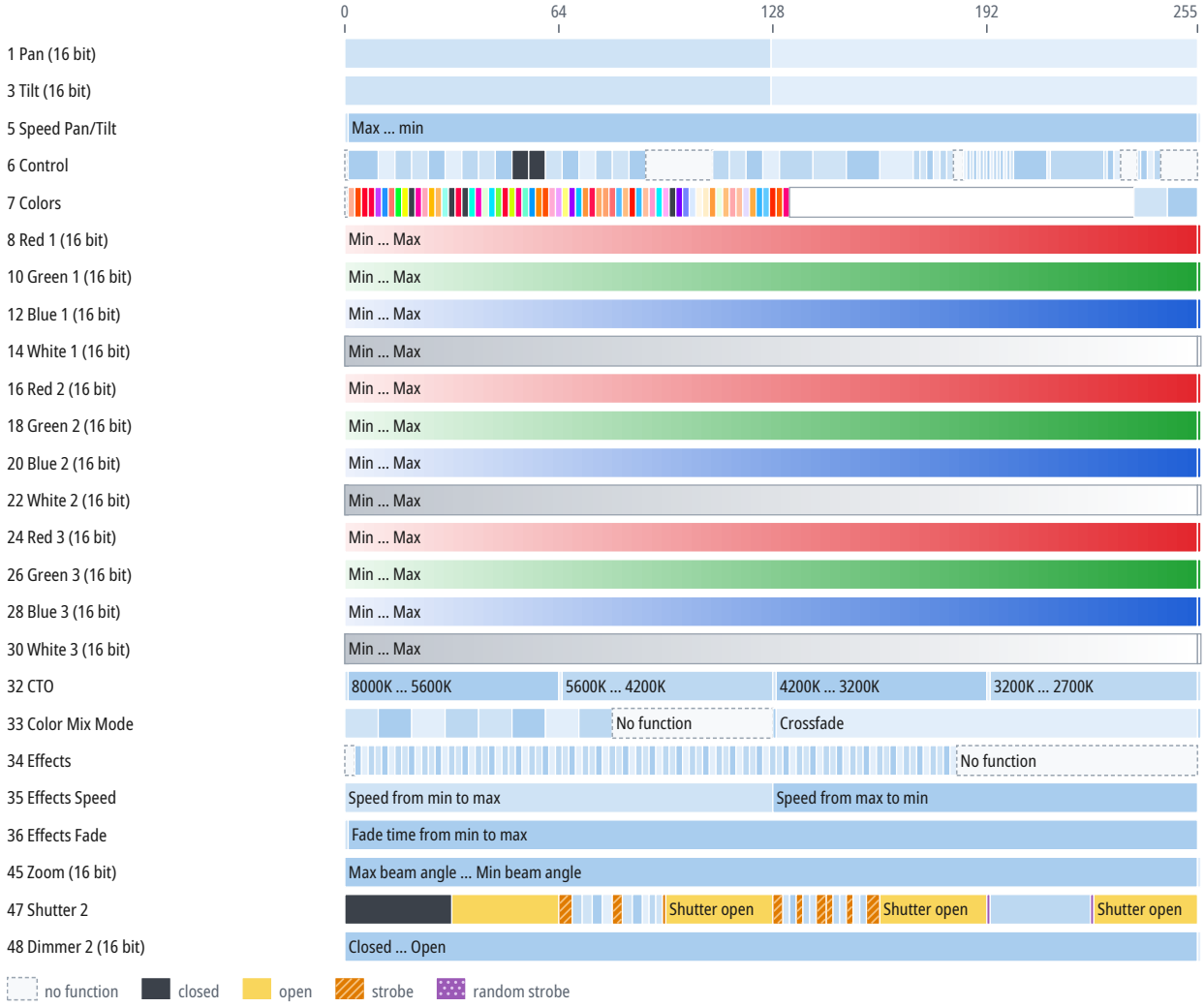
CH	Function	DMX	Description
27	Dimmer 3		Master Dimmer
		0	Closed
		1–254	Closed … Open
		255	Open

Mode 1 - Zones

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 43 Shutter 1 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 44 Dimmer 1 above 0; CH 47 Shutter 2 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 48 Dimmer 2 above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 White 1 255, CH 16 Red 2 255, CH 18 Green 2 255, CH 20 Blue 2 255, CH 22 White 2 255, CH 24 Red 3 255, CH 26 Green 3 255, CH 28 Blue 3 255, CH 30 White 3 255, CH 32 CTO 0, CH 47 Shutter 2 32, CH 48 Dimmer 2 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
6	Control		Same as CH 6 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
7	Colors		Same as CH 7 in the mode “Mode 10 - Pattern full RGBW” (p. 16)
8	Red 1		Zone 1 Red
		0–255	Min ... Max
		255	Max
9	Red 1 Fine	0–255	Fine adjustment of CH 8
10	Green 1		Zone 1 Green
		0–255	Min ... Max
		255	Max
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1		Zone 1 Blue
		0–255	Min ... Max
		255	Max
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	White 1		Zone 1 White
		0–255	Min ... Max
		255	Max
15	White 1 Fine	0–255	Fine adjustment of CH 14
16	Red 2		Zone 2 Red
		0–255	Min ... Max
		255	Max
17	Red 2 Fine	0–255	Fine adjustment of CH 16
18	Green 2		Zone 2 Green
		0–255	Min ... Max
		255	Max
19	Green 2 Fine	0–255	Fine adjustment of CH 18
20	Blue 2		Zone 2 Blue
		0–255	Min ... Max
		255	Max
21	Blue 2 Fine	0–255	Fine adjustment of CH 20
22	White 2		Zone 2 White
		0–255	Min ... Max
		255	Max

CH	Function	DMX	Description
23	White 2 Fine	0–255	Fine adjustment of CH 22
24	Red 3		Zone 3 Red
		0–255	Min ... Max
		255	Max
25	Red 3 Fine	0–255	Fine adjustment of CH 24
26	Green 3		Zone 3 Green
		0–255	Min ... Max
		255	Max
27	Green 3 Fine	0–255	Fine adjustment of CH 26
28	Blue 3		Zone 3 Blue
		0–255	Min ... Max
		255	Max
29	Blue 3 Fine	0–255	Fine adjustment of CH 28
30	White 3		Zone 3 White
		0–255	Min ... Max
		255	Max
31	White 3 Fine	0–255	Fine adjustment of CH 30
32	CTO	0	8000K
		1–63	8000K ... 5600K
		64	5600K
		65–127	5600K ... 4200K
		128	4200K
		129–191	4200K ... 3200K
		192	3200K
		193–254	3200K ... 2700K
		255	2700K
33	Color Mix Mode		Same as CH 21 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
34	Effects	0–2	No function
		3–4	Effect 1
		5–6	Effect 2
		7–8	Effect 3
		9–10	Effect 4
		11–12	Effect 5
		13–14	Effect 6
		15–16	Effect 7
		17–18	Effect 8
		19–20	Effect 9
		21–22	Effect 10
		23–24	Effect 11
		25–26	Effect 12
		27–28	Effect 13

CH	Function	DMX	Description
34	Effects (continued)	29–30	Effect 14
		31–32	Effect 15
		33–34	Effect 16
		35–36	Effect 17
		37–38	Effect 18
		39–40	Effect 19
		41–42	Effect 20
		43–44	Effect 21
		45–46	Effect 22
		47–48	Effect 23
		49–50	Effect 24
		51–52	Effect 25
		53–54	Effect 26
		55–56	Effect 27
		57–58	Effect 28
		59–60	Effect 29
		61–62	Effect 30
		63–64	Effect 31
		65–66	Effect 32
		67–68	Effect 33
		69–70	Effect 34
		71–72	Effect 35
		73–74	Effect 36
		75–76	Effect 37
		77–78	Effect 38
		79–80	Effect 39
		81–82	Effect 40
		83–84	Effect 41
		85–86	Effect 42
		87–88	Effect 43
		89–90	Effect 44
		91–92	Effect 45
		93–94	Effect 46
		95–96	Effect 47
		97–98	Effect 48
		99–100	Effect 49
		101–102	Effect 50
		103–104	Effect 51
		105–106	Effect 52
		107–108	Effect 53
		109–110	Effect 54
		111–112	Effect 55

CH	Function	DMX	Description
34	Effects (continued)	113–114	Effect 56
		115–116	Effect 57
		117–118	Effect 58
		119–120	Effect 59
		121–122	Effect 60
		123–124	Effect 61
		125–126	Effect 62
		127–128	Effect 63
		129–130	Effect 64
		131–132	Effect 65
		133–134	Effect 66
		135–136	Effect 67
		137–138	Effect 68
		139–140	Effect 69
		141–142	Effect 70
		143–144	Effect 71
		145–146	Effect 72
		147–148	Effect 73
		149–150	Effect 74
		151–152	Effect 75
		153–154	Effect 76
		155–156	Effect 77
		157–158	Effect 78
		159–160	Effect 79
		161–162	Effect 80
		163–164	Effect 81
		165–166	Effect 82
		167–168	Effect 83
		169–170	Effect 84
		171–172	Effect 85
		173–174	Effect 86
		175–176	Effect 87
		177–178	Effect 88
		179–180	Effect 89
		181–182	Effect 90
		183–255	No function
35	Effects Speed		Pixel Effects speed
		0–127	Speed from min to max
		128–255	Speed from max to min
36	Effects Fade		Pixel Effects fade
		0	Without fade time
		1–255	Fade time from min to max

CH	Function	DMX	Description
37	Flower Effect	0	Open position/Flower Effect Off
		1–24	Fast to slow 1/7
		25–124	Fast to slow 1/7 ... Fast to slow 7/7
		125–127	Fast to slow 7/7
		128	No rotation middle
		129–131	Slow to fast 1/7
		132–232	Slow to fast 1/7 ... Slow to fast 7/7
		233–255	Slow to fast 7/7
38	Red 4		Flower Red
		0	Min
		1–254	Min ... Max
		255	Max
39	Green 4		Flower Green
		0	Min
		1–254	Min ... Max
		255	Max
40	Blue 4		Flower Blue
		0	Min
		1–254	Min ... Max
		255	Max
41	White 4		Flower White
		0	Min
		1–254	Min ... Max
		255	Max
42	Color Macro		Same as CH 27 in the mode “Mode 8 - Pixel RGBW” (p. 33)
43	Shutter 1	0–31	Open/Close: Closed
		32–63	Open/Close: Open
		64–67	Flower Strobe: Slow to fast 1/12 (0.3–0.353 Hz)
		68–79	Flower Strobe: Slow to fast 1/12 ... Slow to fast 6/12 (0.375–2.86 Hz)
		80–82	Flower Strobe: Slow to fast 6/12 (3.49–4.48 Hz)
		83–94	Flower Strobe: Slow to fast 6/12 ... Slow to fast 12/12 (5–17.6 Hz)
		95	Flower Strobe: Slow to fast 12/12
		96–127	Shutter open
		128–130	Flower Strobe Pulse Open: Slow to fast 1/7 (0.125–0.139 Hz)
		131–134	Flower Strobe Pulse Open: Slow to fast 1/7 ... Slow to fast 4/7 (0.147–0.178 Hz)
		135–136	Flower Strobe Pulse Open: Slow to fast 4/7 (0.192–0.208 Hz)
		137–140	Flower Strobe Pulse Open: Slow to fast 4/7 ... Slow to fast 7/7 (0.227–0.312 Hz)
		141–143	Flower Strobe Pulse Open: Slow to fast 7/7 (0.357–0.499 Hz)
		144–145	Flower Strobe Pulse Close: Fast to slow 1/7 (0.5–0.416 Hz)

CH	Function	DMX	Description
43	Shutter 1 (continued)	146–149	Flower Strobe Pulse Close: Fast to slow 1/7 ... Fast to slow 4/7 (0.357–0.25 Hz)
		150–151	Flower Strobe Pulse Close: Fast to slow 4/7 (0.227–0.208 Hz)
		152–155	Flower Strobe Pulse Close: Fast to slow 4/7 ... Fast to slow 7/7 (0.192–0.156 Hz)
		156–159	Flower Strobe Pulse Close: Fast to slow 7/7 (0.147–0.125 Hz)
		160–191	Shutter open
		192	Random strobe slow
		193–222	Random strobe slow ... Random strobe fast
		223	Random strobe fast
		224–255	Shutter open
44	Dimmer 1		Same as CH 14 in the mode “Mode 5 - Wash” (p. 44)
45	Zoom		Same as CH 30 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
46	Zoom Fine	0–255	Fine adjustment of CH 45
47	Shutter 2	0–31	Open/Close: Closed
		32–63	Open/Close: Open
		64–67	Master Strobe: Slow to fast 1/12 (0.3–0.353 Hz)
		68–79	Master Strobe: Slow to fast 1/12 ... Slow to fast 6/12 (0.375–2.86 Hz)
		80–82	Master Strobe: Slow to fast 6/12 (3.49–4.48 Hz)
		83–94	Master Strobe: Slow to fast 6/12 ... Slow to fast 12/12 (5–17.6 Hz)
		95	Master Strobe: Slow to fast 12/12
		96–127	Shutter open
		128–130	Master Strobe Pulse Open: Slow to fast 1/7 (0.125–0.139 Hz)
		131–134	Master Strobe Pulse Open: Slow to fast 1/7 ... Slow to fast 4/7 (0.147–0.178 Hz)
		135–136	Master Strobe Pulse Open: Slow to fast 4/7 (0.192–0.208 Hz)
		137–140	Master Strobe Pulse Open: Slow to fast 4/7 ... Slow to fast 7/7 (0.227–0.312 Hz)
		141–143	Master Strobe Pulse Open: Slow to fast 7/7 (0.357–0.499 Hz)
		144–145	Master Strobe Pulse Close: Fast to slow 1/7 (0.5–0.416 Hz)
		146–149	Master Strobe Pulse Close: Fast to slow 1/7 ... Fast to slow 4/7 (0.357–0.25 Hz)
		150–151	Master Strobe Pulse Close: Fast to slow 4/7 (0.227–0.208 Hz)
		152–155	Master Strobe Pulse Close: Fast to slow 4/7 ... Fast to slow 7/7 (0.192–0.156 Hz)
		156–159	Master Strobe Pulse Close: Fast to slow 7/7 (0.147–0.125 Hz)
		160–191	Shutter open
		192	Random strobe slow
		193–222	Random strobe slow ... Random strobe fast
		223	Random strobe fast
		224–255	Shutter open

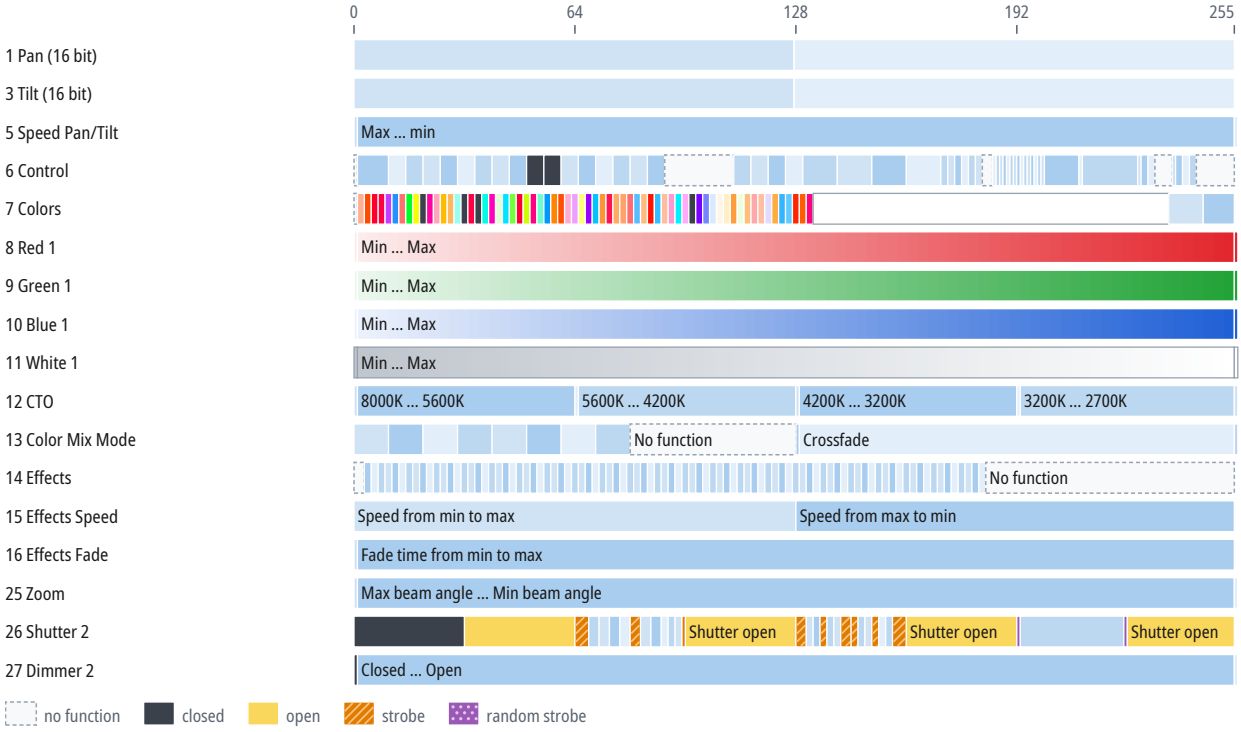
CH	Function	DMX	Description
48	Dimmer 2		Master Dimmer
		0–255	Closed ... Open
		255	Open
49	Dimmer 2 Fine	0–255	Fine adjustment of CH 48

Mode 2 - Basic

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 23 Shutter 1 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 24 Dimmer 1 above 0; CH 26 Shutter 2 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 27 Dimmer 2 above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 1 255, CH 9 Green 1 255, CH 10 Blue 1 255, CH 11 White 1 255, CH 12 CTO 0, CH 26 Shutter 2 32, CH 27 Dimmer 2 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
6	Control		Same as CH 6 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
7	Colors		Same as CH 7 in the mode “Mode 10 - Pattern full RGBW” (p. 16)

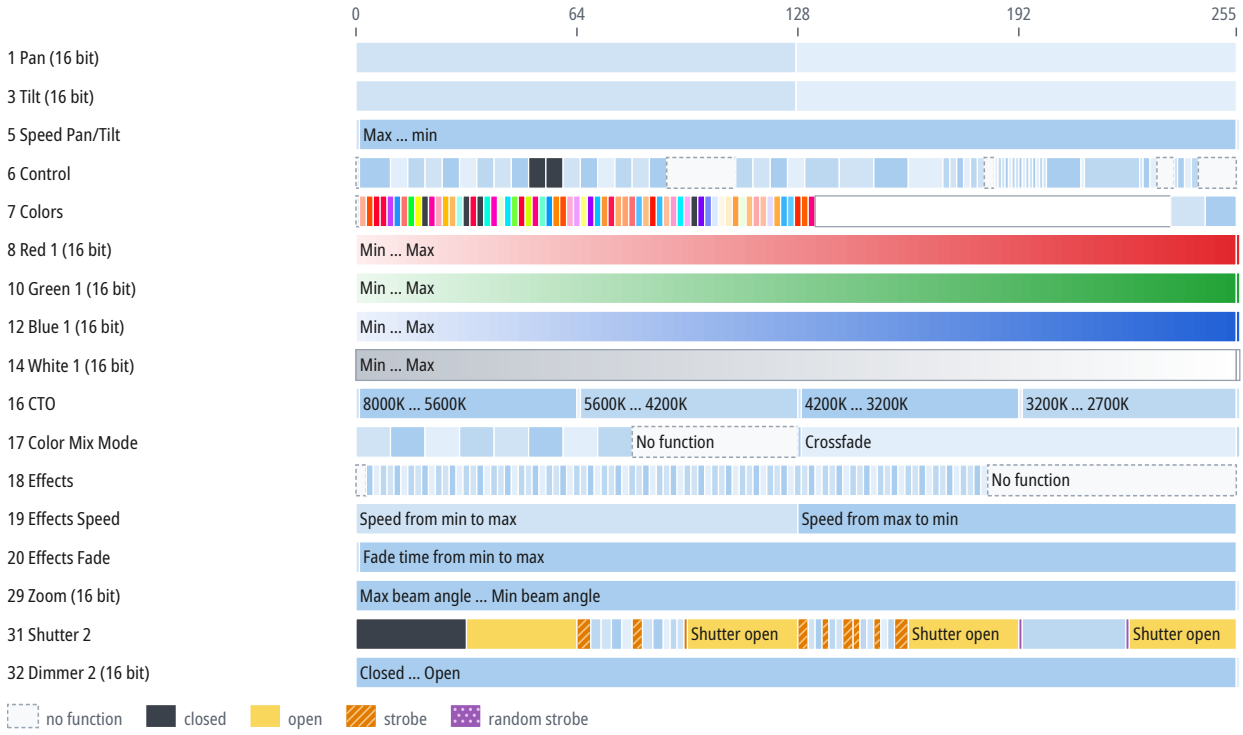
CH	Function	DMX	Description
8	Red 1	0	Min
		1–254	Min ... Max
		255	Max
9	Green 1	0	Min
		1–254	Min ... Max
		255	Max
10	Blue 1	0	Min
		1–254	Min ... Max
		255	Max
11	White 1	0	Min
		1–254	Min ... Max
		255	Max
12	CTO		Same as CH 32 in the mode “Mode 1 - Zones” (p. 47)
13	Color Mix Mode		Same as CH 21 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
14	Effects		Same as CH 34 in the mode “Mode 1 - Zones” (p. 47)
15	Effects Speed		Same as CH 35 in the mode “Mode 1 - Zones” (p. 49)
16	Effects Fade		Same as CH 36 in the mode “Mode 1 - Zones” (p. 49)
17	Flower Effect		Same as CH 22 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
18	Red 2		Same as CH 23 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
19	Green 2		Same as CH 24 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
20	Blue 2		Same as CH 25 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
21	White 2		Same as CH 26 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
22	Color Macro		Same as CH 27 in the mode “Mode 8 - Pixel RGBW” (p. 33)
23	Shutter 1		Same as CH 43 in the mode “Mode 1 - Zones” (p. 50)
24	Dimmer 1		Same as CH 14 in the mode “Mode 5 - Wash” (p. 44)
25	Zoom		Same as CH 25 in the mode “Mode 5 - Wash” (p. 44)
26	Shutter 2		Same as CH 47 in the mode “Mode 1 - Zones” (p. 51)
27	Dimmer 2		Master Dimmer
		0	Closed
		1–254	Closed ... Open
		255	Open

Mode 3 - Advanced

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 27 Shutter 1 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 28 Dimmer 1 above 0; CH 31 Shutter 2 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 32 Dimmer 2 above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 White 1 255, CH 16 CTO 0, CH 31 Shutter 2 32, CH 32 Dimmer 2 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
6	Control		Same as CH 6 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
7	Colors		Same as CH 7 in the mode “Mode 10 - Pattern full RGBW” (p. 16)
8	Red 1	0–255	Min ... Max
		255	Max
9	Red 1 Fine	0–255	Fine adjustment of CH 8
10	Green 1	0–255	Min ... Max
		255	Max

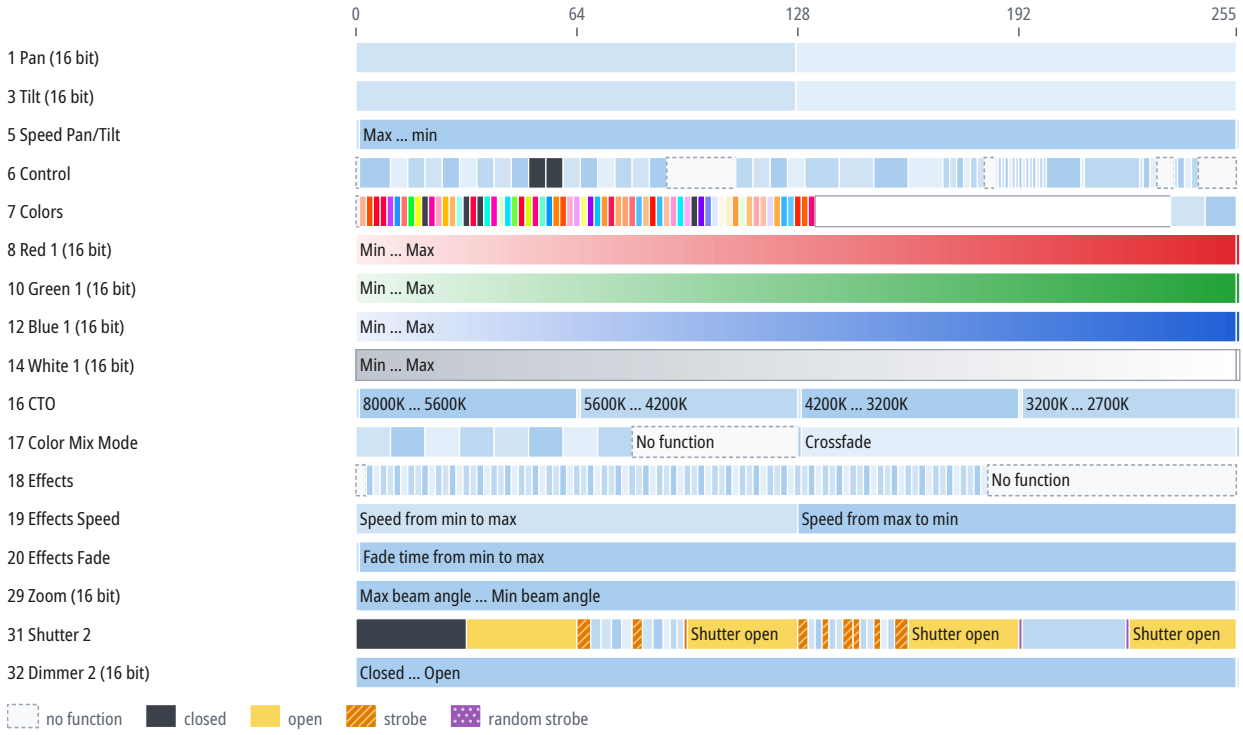
CH	Function	DMX	Description
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1	0–255	Min ... Max
		255	Max
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	White 1	0–255	Min ... Max
		255	Max
15	White 1 Fine	0–255	Fine adjustment of CH 14
16	CTO		Same as CH 32 in the mode “Mode 1 - Zones” (p. 47)
17	Color Mix Mode		Same as CH 21 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
18	Effects		Same as CH 34 in the mode “Mode 1 - Zones” (p. 47)
19	Effects Speed		Same as CH 35 in the mode “Mode 1 - Zones” (p. 49)
20	Effects Fade		Same as CH 36 in the mode “Mode 1 - Zones” (p. 49)
21	Flower Effect		Same as CH 22 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
22	Red 2		Same as CH 23 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
23	Green 2		Same as CH 24 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
24	Blue 2		Same as CH 25 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
25	White 2		Same as CH 26 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
26	Color Macro		Same as CH 27 in the mode “Mode 8 - Pixel RGBW” (p. 33)
27	Shutter 1		Same as CH 43 in the mode “Mode 1 - Zones” (p. 50)
28	Dimmer 1		Same as CH 14 in the mode “Mode 5 - Wash” (p. 44)
29	Zoom		Same as CH 30 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
30	Zoom Fine	0–255	Fine adjustment of CH 29
31	Shutter 2		Same as CH 47 in the mode “Mode 1 - Zones” (p. 51)
32	Dimmer 2		Same as CH 48 in the mode “Mode 1 - Zones” (p. 52)
33	Dimmer 2 Fine	0–255	Fine adjustment of CH 32

Mode 4 - Full RGBW

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 27 Shutter 1 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 28 Dimmer 1 above 0; CH 31 Shutter 2 at 32–63 “Open” or 96–127, 160–191, 224–255 “Shutter open”; CH 32 Dimmer 2 above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 White 1 255, CH 16 CTO 0, CH 31 Shutter 2 32, CH 32 Dimmer 2 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
6	Control		Same as CH 6 in the mode “Mode 10 - Pattern full RGBW” (p. 15)
7	Colors		Same as CH 7 in the mode “Mode 10 - Pattern full RGBW” (p. 16)
8	Red 1		Same as CH 8 in the mode “Mode 3 - Advanced” (p. 54)
9	Red 1 Fine	0–255	Fine adjustment of CH 8
10	Green 1		Same as CH 10 in the mode “Mode 3 - Advanced” (p. 54)
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1		Same as CH 12 in the mode “Mode 3 - Advanced” (p. 55)

CH	Function	DMX	Description
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	White 1		Same as CH 14 in the mode “Mode 3 - Advanced” (p. 55)
15	White 1 Fine	0–255	Fine adjustment of CH 14
16	CTO		Same as CH 32 in the mode “Mode 1 - Zones” (p. 47)
17	Color Mix Mode		Same as CH 21 in the mode “Mode 10 - Pattern full RGBW” (p. 19)
18	Effects		Same as CH 34 in the mode “Mode 1 - Zones” (p. 47)
19	Effects Speed		Same as CH 35 in the mode “Mode 1 - Zones” (p. 49)
20	Effects Fade		Same as CH 36 in the mode “Mode 1 - Zones” (p. 49)
21	Flower Effect		Same as CH 22 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
22	Red 2		Same as CH 23 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
23	Green 2		Same as CH 24 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
24	Blue 2		Same as CH 25 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
25	White 2		Same as CH 26 in the mode “Mode 10 - Pattern full RGBW” (p. 20)
26	Color Macro		Same as CH 27 in the mode “Mode 8 - Pixel RGBW” (p. 33)
27	Shutter 1		Same as CH 43 in the mode “Mode 1 - Zones” (p. 50)
28	Dimmer 1		Same as CH 14 in the mode “Mode 5 - Wash” (p. 44)
29	Zoom		Same as CH 30 in the mode “Mode 10 - Pattern full RGBW” (p. 23)
30	Zoom Fine	0–255	Fine adjustment of CH 29
31	Shutter 2		Same as CH 47 in the mode “Mode 1 - Zones” (p. 51)
32	Dimmer 2		Same as CH 48 in the mode “Mode 1 - Zones” (p. 52)
33	Dimmer 2 Fine	0–255	Fine adjustment of CH 32
34	Red 3		Pixel Red
		0	Min
		1–254	Min ... Max
		255	Max
35	Green 3		Pixel Green
		0	Min
		1–254	Min ... Max
		255	Max
36	Blue 3		Pixel Blue
		0	Min
		1–254	Min ... Max
		255	Max

CH 34–90: 19 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 34–36); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	34	35	36	2	37	38	39	3	40	41	42
4	43	44	45	5	46	47	48	6	49	50	51
7	52	53	54	8	55	56	57	9	58	59	60
10	61	62	63	11	64	65	66	12	67	68	69
13	70	71	72	14	73	74	75	15	76	77	78
16	79	80	81	17	82	83	84	18	85	86	87
19	88	89	90								

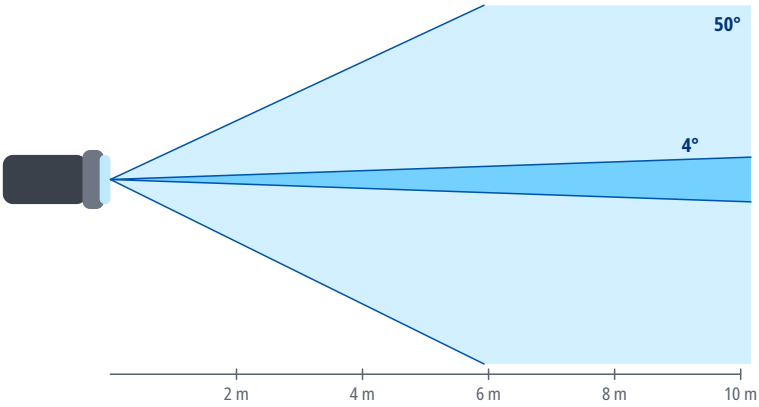
10 Technical specifications

Parameter	Value
Light	
Light source	LED
Optics	
Zoom	4–50°
Movement	
Pan	540°
Tilt	220°
Control	
DMX connection	5-pin XLR IN/OUT
RJ45 connectors	RJ45 IN/OUT
RDM	yes (manufacturer ID 0x5253, device model ID 0x0148)
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	660 W
Power connectors	powerCON TRUE1 IN
Dimensions and construction	
Weight	18 kg
Operating environment	
Ingress protection	IP65
Meaning of the IP code (IEC 60529)	Dust-tight; protected against water jets
Operating temperature	-50 to 50 °C

Speeds and ranges

Parameter	Value
Color temperature range	2700–8000 K
Strobe frequency	0.3–20 Hz

Spot diameter



Distance	Ø 4°	Ø 50°
2 m	0.14 m	1.9 m
4 m	0.28 m	3.7 m
6 m	0.42 m	5.6 m
8 m	0.56 m	7.5 m
10 m	0.7 m	9.3 m
15 m	1 m	14 m

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

11 Maintenance and cleaning

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

12 Troubleshooting

Problem	Remedy
The device does not switch on	Check the supply voltage, the cables and the fuse, if the device has one.
The device does not respond to DMX	Check the start address, the selected DMX mode and whether it matches the profile in the controller, the cable connection to DMX IN, and the controller output (universe).
The device behaves erratically or flickers	Check the terminator at the end of the line, the condition and wiring of the cables (shield on pin 1 only), the number of devices on the line (32 at most), and that the line is not split without a splitter.
Only some devices on the line respond	Check the cable and connectors between the last working and the first non-working device, and make sure all devices on the line are switched on.
Devices respond to the wrong channels or affect each other	Check that the addresses do not overlap and that the DMX mode on the devices matches the patch in the controller.
The device or the connected load does not light up although it receives DMX	Check the values of the dimmer, shutter and strobe channels against the DMX channel table. For the DMX modes for which the sources state it, the chapter DMX channels gives under the mode's heading which channels must be open.
Movement is reversed	Check whether Pan/Tilt inversion is enabled in the device menu or in the controller.
Moving parts do not reach the correct position after power-on or transport	Switch the device off and on again to reset the position, and make sure the transport lock, if any, is released. If this does not help, contact a service center.
Movement is jerky	Check the value of the Pan/Tilt speed channel, if the device has one, and the stability of the DMX signal.

13 Disposal

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

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

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

Recycle the packaging materials according to their type.