DMX REFERENCE

Modena

Modena Wash 7x40w RGBW

Starway



Manufacturer	Starway
GDTF file	Starway_Modena_81282.gdtf
GDTF revision	V101 · 2024-12-19
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1 About this manual

This document describes the Modena Wash 7x40w RGBW by Starway. It was compiled from the GDTF file Starway_Modena_81282.gdtf from the GDTF-Share library.

File revision: “V101”.

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 Starway; 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	850 W
Weight	6.9 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Basic 8B Mode 15CH	15	34	1, 16, 31, 46, ...
Basic 16B Mode 19CH	19	26	1, 20, 39, 58, ...
Standard 16b Mode 25CH	25	20	1, 26, 51, 76, ...
Standard 8b Mode 21CH	21	24	1, 22, 43, 64, ...
Extended 16B Mode 27CH	27	18	1, 28, 55, 82, ...
Extended 8B Mode 23CH	23	22	1, 24, 47, 70, ...
Pixel 16b Mode 69CH	69	7	1, 70, 139, 208, ...
Pixel 8b Mode 41CH	41	12	1, 42, 83, 124, ...
M-B Mode 28CH	28	18	1, 29, 57, 85, ...


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.

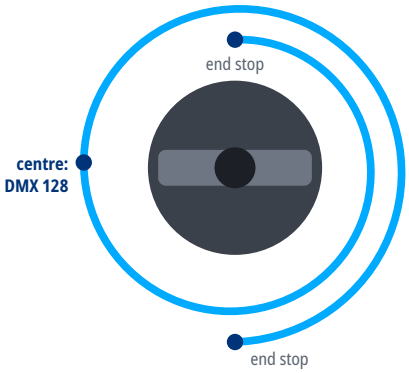
> ⚠ **WARNING**
>
> - The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
> - Keep yourself and any objects out of the range of movement. While the device is switched on, do 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

Range of movement

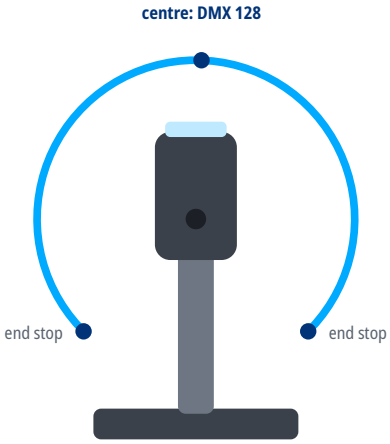
Pan 540°

top view



Tilt 270°

side view



5 Installation

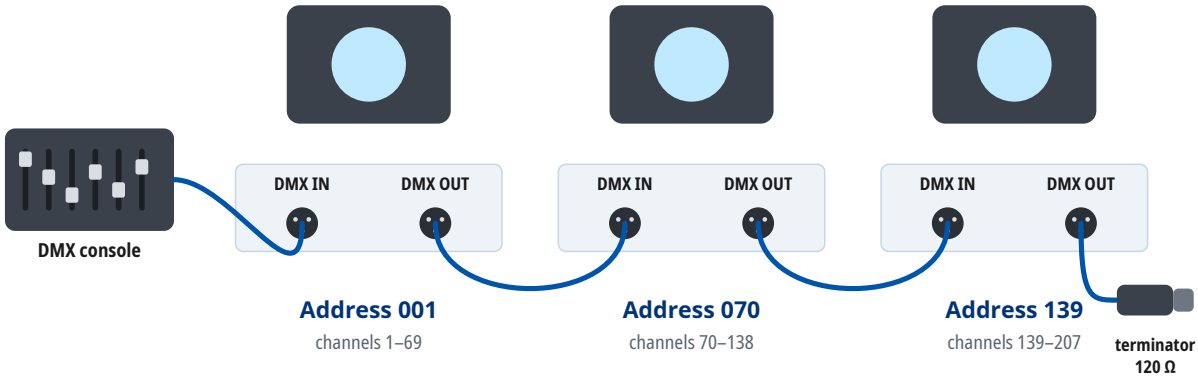
⚠ **WARNING**

- 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: 6.9 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 Pixel 16b Mode 69CH: every unit occupies 69 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 “Pixel 16b Mode 69CH”: 69.
- 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 “Pixel 16b Mode 69CH”, you can use, for example, the start addresses 1, 70, 139, 208.
- 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

	Basic 8B Mode 15CH 15 channels	Basic 16B Mode 19CH 19 channels	Standard 16b Mode 25CH 25 channels	Standard 8b Mode 21CH 21 channels	Extended 16B Mode 27CH 27 channels	Extended 8B Mode 23CH 23 channels	Pixel 16b Mode 69CH 69 channels	Pixel 8b Mode 41CH 41 channels
Pan / Tilt	1, 3	1, 3	1, 3	1, 3	1, 3	1, 3	1, 3	1, 3
Dimmer	6	6	6	6	6	6	6	6
Shutter / strobe	8	8	8	8	8	8	8	8
Color mixing	12–15	4× (12–18)	4× (18–24)	18–21	4× (20–26)	20–23	28× (14–68)	40 channels (14–65)
Color wheel			9, 10	9, 10	10, 12	10, 12	9	9
Zoom	9	9	15	15	17	17	11	11
Effects / macros			13, 14	13, 14	15, 16	15, 16		

Color wheel

1 RGBW Max
DMX 0

2 White 10000 K
DMX 1

3 White 8000 K
DMX 2

4 White 6500 K
DMX 3

5 White 5600 K
DMX 4

6 White 5000 K
DMX 5

7 White 4500 K
DMX 6

8 White 4000 K
DMX 7

9 White 3200 K
DMX 8

10 White 3000 K
DMX 9

11 White 2700 K
DMX 10–11

12 Red
DMX 11

13 Wheel Slot 2
DMX 19

14 Wheel Slot 3
DMX 27

15 Wheel Slot 4
DMX 35

16 Wheel Slot 5
DMX 43

17 Yellow
DMX 51

18 Wheel Slot 7
DMX 59

19 Wheel Slot 8
DMX 67

20 Wheel Slot 9
DMX 75

21 Wheel Slot 10
DMX 83

22 Green
DMX 91

23 Wheel Slot 1
DMX 99

24 Wheel Slot 6
DMX 107

25 Wheel Slot 11
DMX 115

26 Wheel Slot 12
DMX 123

27 Cyan
DMX 131

28 Wheel Slot 14
DMX 139

29 Wheel Slot 13
DMX 147

30 Wheel Slot 15
DMX 155

31 Wheel Slot 16
DMX 163

32 Blue
DMX 171

33 Wheel Slot 17
DMX 179

34 Wheel Slot 18
DMX 187

35 Wheel Slot 19
DMX 195

36 Wheel Slot 20
DMX 203

37 Magenta
DMX 211

38 Wheel Slot 21
DMX 219

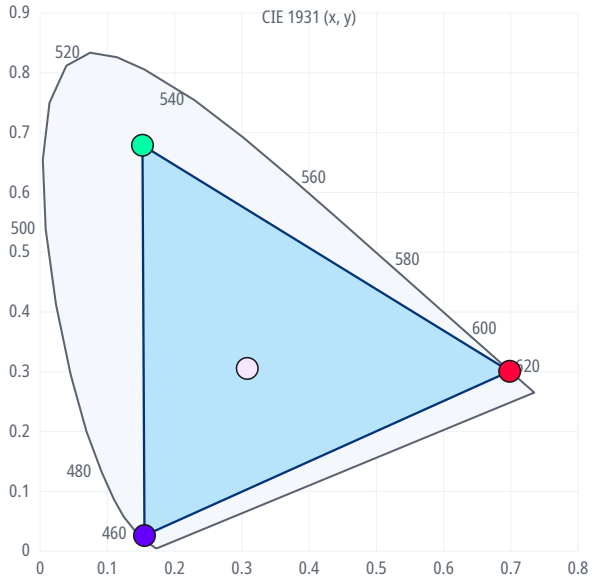
39 Wheel Slot 22
DMX 227

40 Wheel Slot 23
DMX 235

41 Wheel Slot 24
DMX 243

42 Red 1
DMX 250–251

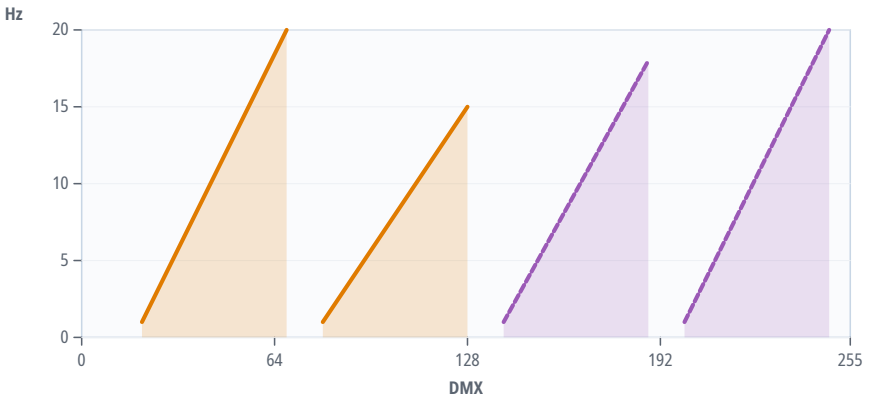
LED colors and the colors they mix



LED	x	y	nm
Red	0.698	0.301	637
Green	0.152	0.679	516
Blue	0.155	0.026	443
White	0.308	0.306	

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

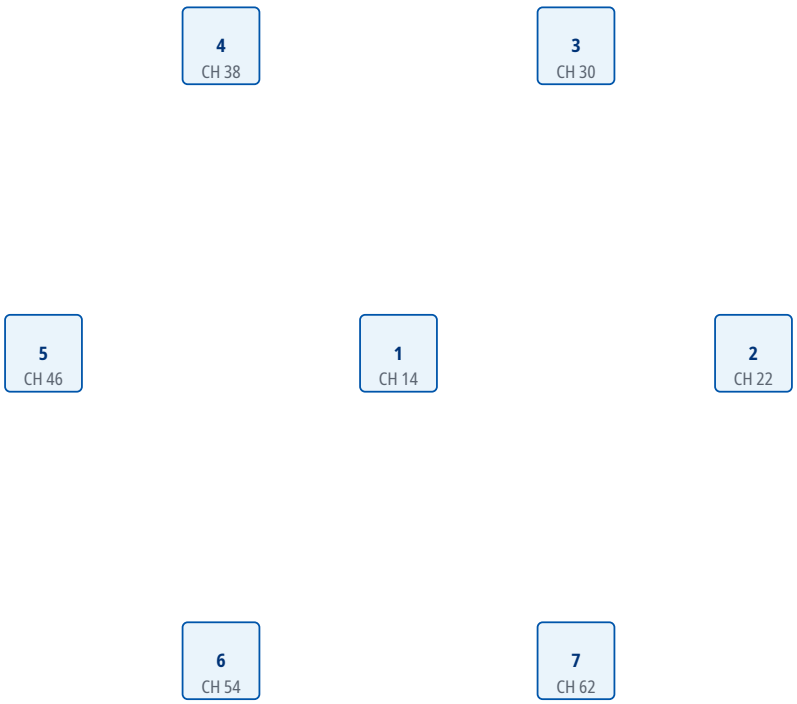
Strobe rate



CH 8 · Extended 16B Mode 27CH

- 20–68: 1–20 Hz
  Strobe
- 80–128: 1–15 Hz
  Pulse
- 140–188: 1–18 Hz
  Random
- 200–248: 1–20 Hz
  Strobe pixel random

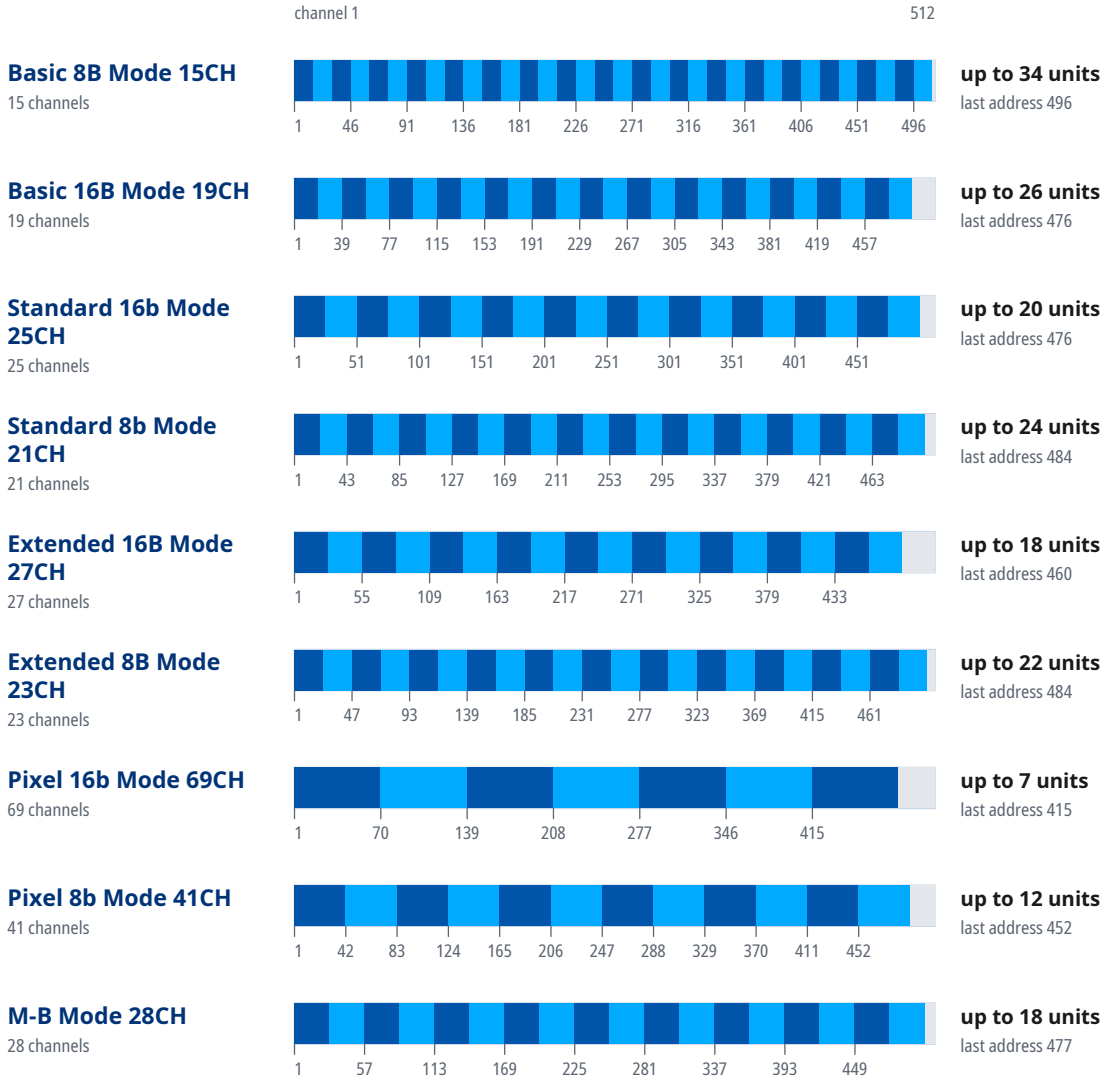
Cells (pixels)



7 cells where the GDTF file places them (seen from above), numbered by their first DMX channel (CH) in the mode “Extended 16B Mode 27CH”.

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Pixel 16b Mode 69CH”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	346	11	U2 · 208	16	U3 · 70
2	70	7	415	12	U2 · 277	17	U3 · 139
3	139	8	U2 · 1	13	U2 · 346	18	U3 · 208
4	208	9	U2 · 70	14	U2 · 415	19	U3 · 277
5	277	10	U2 · 139	15	U3 · 1	20	U3 · 346

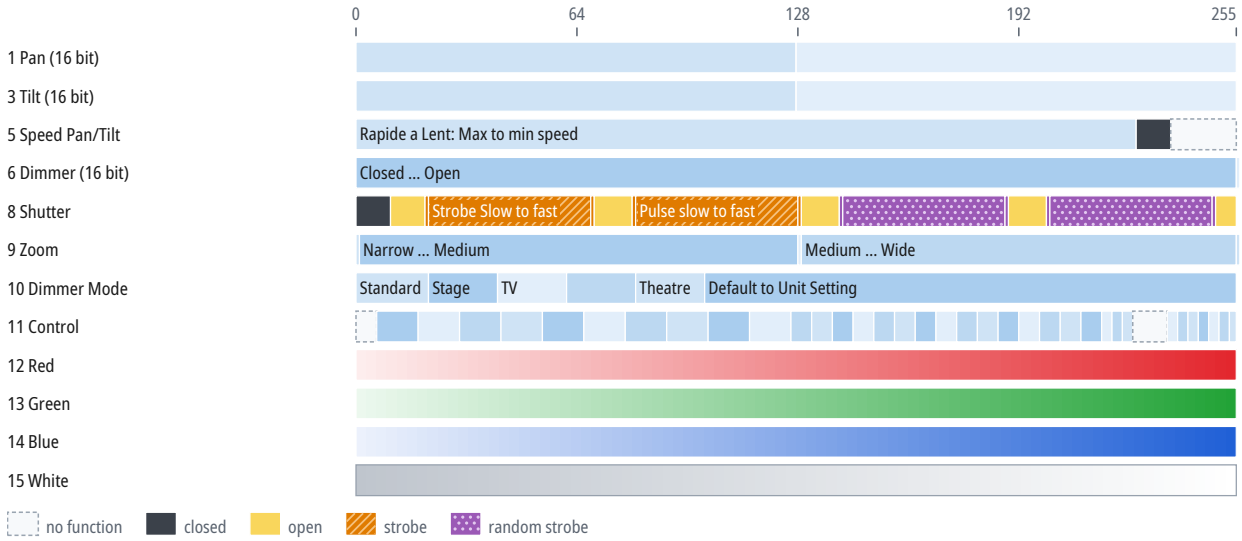
Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode Basic 8B Mode 15CH

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 6 Dimmer above 0; CH 8 Shutter at 10–19 “Shutter open”. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 255, CH 8 Shutter 255, CH 12 Red 255, CH 13 Green 255, CH 14 Blue 255, CH 15 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Pan 1
		128	Home
		128–255	Pan 1
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–127	Tilt 1
		128	Home
		128–255	Tilt 1
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0–225	Rapide a Lent: Max to min speed
		226–235	Blackout by movement
		236–255	No function
6	Dimmer	0–255	Closed ... Open
		255	Open
7	Dimmer Fine	0–255	Fine adjustment of CH 6
8	Shutter	0–9	Shutter closed
		10–19	Shutter open
		20	Strobe Slow
		21–67	Strobe Slow to fast
		68	Strobe fast
		69–79	No function (shutter open2)
		80	Pulse slow

CH	Function	DMX	Description
8	Shutter (continued)	81–127	Pulse slow to fast
		128	Pulse fast
		129–139	No function (shutter open3)
		140	Strobe Random: Random Slow
		141–187	Strobe Random: Random Slow to fast
		188	Random fast
		189–199	No function (shutter open4)
		200	Strobe pixel random: Random Slow
		201–247	Strobe pixel random: Random Slow to fast
		248	Random Fast
		249–255	No function (shutter open5)
9	Zoom	0	Narrow
		1–127	Narrow ... Medium
		128	Medium
		129–254	Medium ... Wide
		255	Wide
10	Dimmer Mode	0–20	Standard
		21–40	Stage
		41–60	TV
		61–80	Architectural
		81–100	Theatre
		101–255	Default to Unit Setting
11	Control	0–5	No function
		6–17	Inversion Pan on (Maintient 3s)
		18–29	Inversion Pan off (Maintient 3s)
		30–41	Inversion tilt on (Maintient 3s)
		42–53	Inversion tilt off (Maintient 3s)
		54–65	Fan Silent (Maintient 3s)
		66–77	Fan Auto (Maintient 3s)
		78–89	Fan High (Maintient 3s)
		90–101	Courbe Linear (Maintient 3s)
		102–113	Courbe Square (Maintient 3s)
		114–125	Courbe Inv-Square (Maintient 3s)
		126–131	Courbe S (Maintient 3s)
		132–137	Led Freq 900 Hz (Maintient 3s)
		138–143	Led Freq 1000 Hz (Maintient 3s)
		144–149	Led Freq 1100 Hz (Maintient 3s)
		150–155	Led Freq 1200 Hz (Maintient 3s)
		156–161	Led Freq 1300 Hz (Maintient 3s)
		162–167	Led Freq 1400 Hz (Maintient 3s)
		168–173	Led Freq 1500 Hz (Maintient 3s)
		174–179	Led Freq 2500 Hz (Maintient 3s)

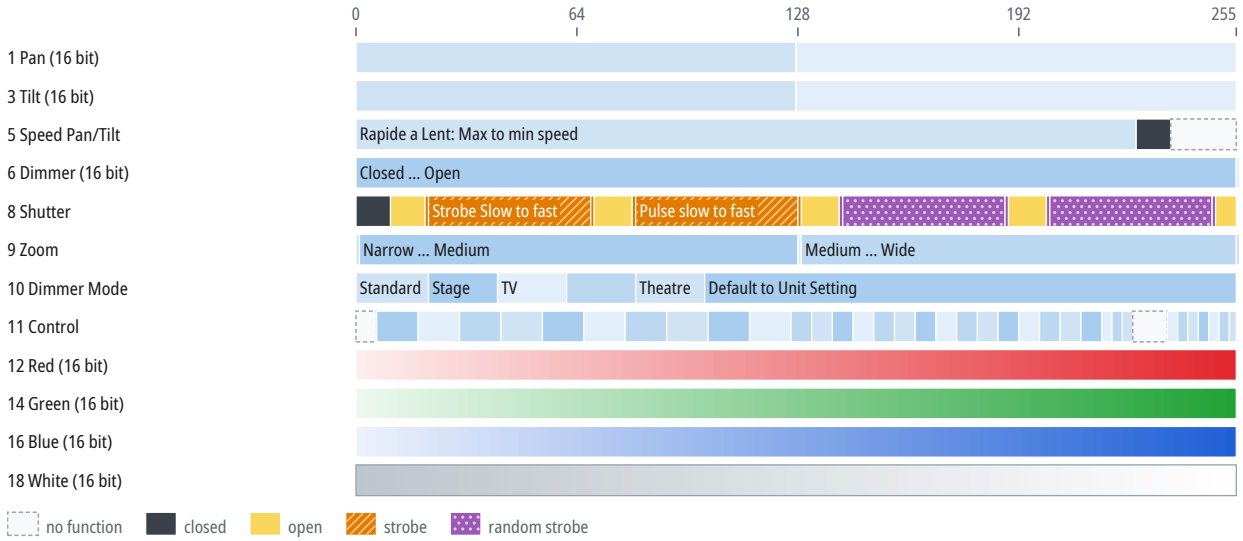
CH	Function	DMX	Description
11	Control (continued)	180–185	Led Freq 4000 Hz (Maintient 3s)
		186–191	Led Freq 5000 Hz (Maintient 3s)
		192–197	Led Freq 10000 Hz (Maintient 3s)
		198–203	Led Freq 15000 Hz (Maintient 3s)
		204–209	Led Freq 20000 Hz (Maintient 3s)
		210–215	Led Freq 25000 Hz (Maintient 3s)
		216–218	Reset Pan/Tilt (Maintient 3s)
		219–221	Reset only Head (Maintient 3s)
		222–224	Reset All Functions (Maintient 3s)
		225–234	No used
		235–237	Klingnet Disable
		238–240	Leds controled Klingnet only
		241–243	Leds controled Klingnet + Dmx
		244–246	Klingnet Calibration OFF
		247–249	Klingnet Calibration ON
		250–252	White Calibred by IC (Maintient 3s)
		253–255	Fixed White values (Maintient 3s)
12	Red	0–255	
13	Green	0–255	
14	Blue	0–255	
15	White	0–255	

Mode Basic 16B Mode 19CH

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 6 Dimmer above 0; CH 8 Shutter at 10–19 “Shutter open”. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 255, CH 8 Shutter 255, CH 12 Red 255, CH 14 Green 255, CH 16 Blue 255, CH 18 White 255.

Channel functions at a glance



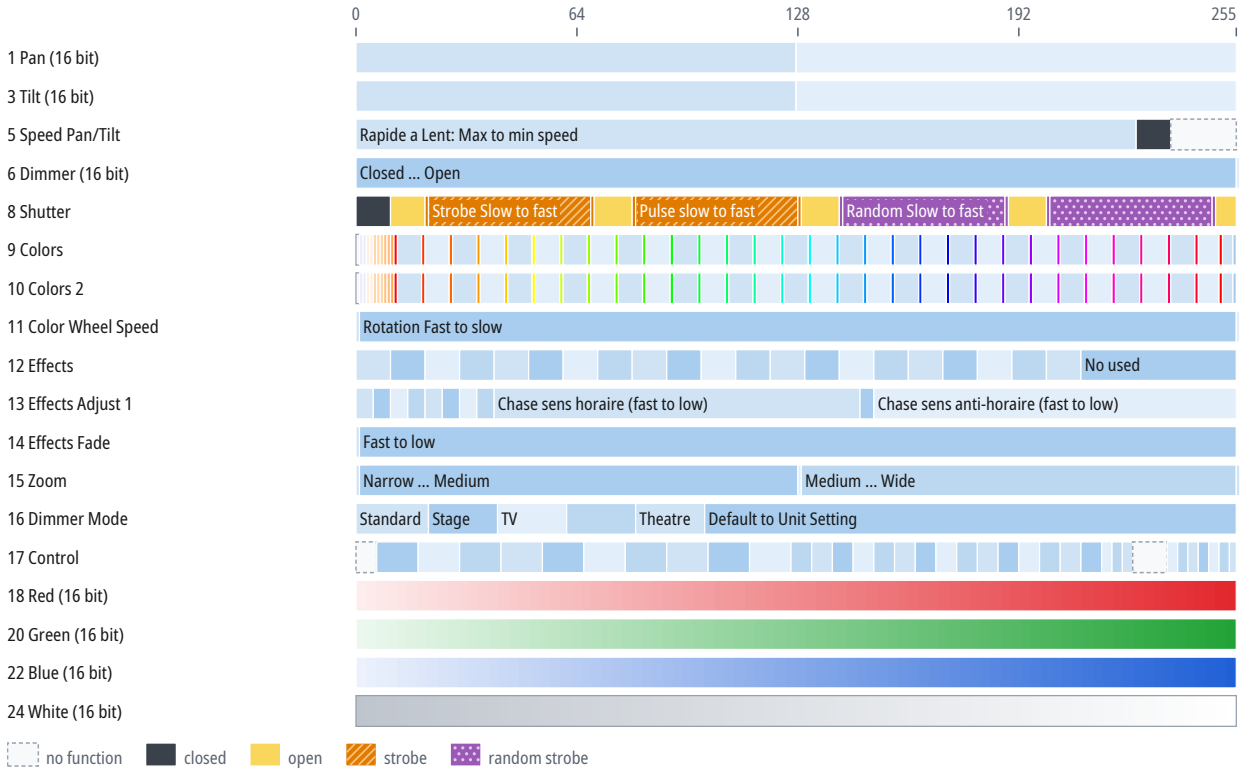
CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Basic 8B Mode 15CH” (p. 12)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Basic 8B Mode 15CH” (p. 12)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Basic 8B Mode 15CH” (p. 12)
6	Dimmer		Same as CH 6 in the mode “Basic 8B Mode 15CH” (p. 12)
7	Dimmer Fine	0–255	Fine adjustment of CH 6
8	Shutter		Same as CH 8 in the mode “Basic 8B Mode 15CH” (p. 12)
9	Zoom		Same as CH 9 in the mode “Basic 8B Mode 15CH” (p. 13)
10	Dimmer Mode		Same as CH 10 in the mode “Basic 8B Mode 15CH” (p. 13)
11	Control		Same as CH 11 in the mode “Basic 8B Mode 15CH” (p. 13)
12	Red	0–255	
13	Red Fine	0–255	Fine adjustment of CH 12
14	Green	0–255	
15	Green Fine	0–255	Fine adjustment of CH 14
16	Blue	0–255	
17	Blue Fine	0–255	Fine adjustment of CH 16
18	White	0–255	
19	White Fine	0–255	Fine adjustment of CH 18

Mode Standard 16b Mode 25CH

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 6 Dimmer above 0; CH 8 Shutter at 10–19 “Shutter open”. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 255, CH 8 Shutter 255, CH 9 Colors 0, CH 10 Colors 2 0, CH 11 Color Wheel Speed 0, CH 18 Red 255, CH 20 Green 255, CH 22 Blue 255, CH 24 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Basic 8B Mode 15CH” (p. 12)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Basic 8B Mode 15CH” (p. 12)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Basic 8B Mode 15CH” (p. 12)
6	Dimmer		Same as CH 6 in the mode “Basic 8B Mode 15CH” (p. 12)
7	Dimmer Fine	0–255	Fine adjustment of CH 6
8	Shutter	0–9	Shutter closed
		10–19	Shutter open
		20	Strobe Slow
		21–67	Strobe Slow to fast
		68	Strobe fast
		69–79	No function (shutter open2)
		80	Pulse slow
		81–127	Pulse slow to fast

CH	Function	DMX	Description
8	Shutter (continued)	128	Pulse fast
		129–139	No function (shutter open3)
		140	Random Slow
		141–187	Random Slow to fast
		188	Random fast
		189–199	No function (shutter open4)
		200	Strobe pixel random: Random Slow
		201–247	Strobe pixel random: Random Slow to fast
		248	Random Fast
		249–255	No function (shutter open5)
9	Colors	0	RGBW Max
		1	White 10000 K
		2	White 8000 K
		3	White 6500 K
		4	White 5600 K
		5	White 5000 K
		6	White 4500 K
		7	White 4000 K
		8	White 3200 K
		9	White 3000 K
		10	White 2700 K
		11	Red
		12–18	Red ... Wheel Slot 2
		19	Wheel Slot 2
		20–26	Wheel Slot 2 ... Wheel Slot 3
		27	Wheel Slot 3
		28–34	Wheel Slot 3 ... Wheel Slot 4
		35	Wheel Slot 4
		36–42	Wheel Slot 4 ... Wheel Slot 5
		43	Wheel Slot 5
		44–50	Wheel Slot 5 ... Yellow
		51	Yellow
		52–58	Yellow ... Wheel Slot 7
		59	Wheel Slot 7
		60–66	Wheel Slot 7 ... Wheel Slot 8
		67	Wheel Slot 8
		68–74	Wheel Slot 8 ... Wheel Slot 9
		75	Wheel Slot 9
		76–82	Wheel Slot 9 ... Wheel Slot 10
		83	Wheel Slot 10
		84–90	Wheel Slot 10 ... Green
		91	Green

CH	Function	DMX	Description
9	Colors (continued)	92–98	Green ... Wheel Slot 1
		99	Wheel Slot 1
		100–106	Wheel Slot 1 ... Wheel Slot 6
		107	Wheel Slot 6
		108–114	Wheel Slot 6 ... Wheel Slot 11
		115	Wheel Slot 11
		116–122	Wheel Slot 11 ... Wheel Slot 12
		123	Wheel Slot 12
		124–130	Wheel Slot 12 ... Cyan
		131	Cyan
		132–138	Cyan ... Wheel Slot 14
		139	Wheel Slot 14
		140–146	Wheel Slot 14 ... Wheel Slot 13
		147	Wheel Slot 13
		148–154	Wheel Slot 13 ... Wheel Slot 15
		155	Wheel Slot 15
		156–162	Wheel Slot 15 ... Wheel Slot 16
		163	Wheel Slot 16
		164–170	Wheel Slot 16 ... Blue
		171	Blue
		172–178	Blue ... Wheel Slot 17
		179	Wheel Slot 17
		180–186	Wheel Slot 17 ... Wheel Slot 18
		187	Wheel Slot 18
		188–194	Wheel Slot 18 ... Wheel Slot 19
		195	Wheel Slot 19
		196–202	Wheel Slot 19 ... Wheel Slot 20
		203	Wheel Slot 20
		204–210	Wheel Slot 20 ... Magenta
		211	Magenta
		212–218	Magenta ... Wheel Slot 21
		219	Wheel Slot 21
		220–226	Wheel Slot 21 ... Wheel Slot 22
		227	Wheel Slot 22
		228–234	Wheel Slot 22 ... Wheel Slot 23
		235	Wheel Slot 23
		236–242	Wheel Slot 23 ... Wheel Slot 24
		243	Wheel Slot 24
		244–249	Wheel Slot 24 ... Wheel Slot 25
		250	Wheel Slot 25
		251–253	Color Wheel rotation between the color level 12 to 250
		254–255	Color rotation backward

CH	Function	DMX	Description
10	Colors 2	0	RGBW Max
		1	White 10000 K
		2	White 8000 K
		3	White 6500 K
		4	White 5600 K
		5	White 5000 K
		6	White 4500 K
		7	White 4000 K
		8	White 3200 K
		9	White 3000 K
		10	White 2700 K
		11	Red
		12–18	Red ... Wheel Slot 2
		19	Wheel Slot 2
		20–26	Wheel Slot 2 ... Wheel Slot 3
		27	Wheel Slot 3
		28–34	Wheel Slot 3 ... Wheel Slot 4
		35	Wheel Slot 4
		36–42	Wheel Slot 4 ... Wheel Slot 5
		43	Wheel Slot 5
		44–50	Wheel Slot 5 ... Yellow
		51	Yellow
		52–58	Yellow ... Wheel Slot 7
		59	Wheel Slot 7
		60–66	Wheel Slot 7 ... Wheel Slot 8
		67	Wheel Slot 8
		68–74	Wheel Slot 8 ... Wheel Slot 9
		75	Wheel Slot 9
		76–82	Wheel Slot 9 ... Wheel Slot 10
		83	Wheel Slot 10
		84–90	Wheel Slot 10 ... Green
		91	Green
		92–98	Green ... Wheel Slot 1
		99	Wheel Slot 1
		100–106	Wheel Slot 1 ... Wheel Slot 6
		107	Wheel Slot 6
		108–114	Wheel Slot 6 ... Wheel Slot 11
		115	Wheel Slot 11
		116–122	Wheel Slot 11 ... Wheel Slot 12
		123	Wheel Slot 12
		124–130	Wheel Slot 12 ... Cyan
		131	Cyan

CH	Function	DMX	Description
10	Colors 2 (continued)	132–138	Cyan ... Wheel Slot 14
		139	Wheel Slot 14
		140–146	Wheel Slot 14 ... Wheel Slot 13
		147	Wheel Slot 13
		148–154	Wheel Slot 13 ... Wheel Slot 15
		155	Wheel Slot 15
		156–162	Wheel Slot 15 ... Wheel Slot 16
		163	Wheel Slot 16
		164–170	Wheel Slot 16 ... Blue
		171	Blue
		172–178	Blue ... Wheel Slot 17
		179	Wheel Slot 17
		180–186	Wheel Slot 17 ... Wheel Slot 18
		187	Wheel Slot 18
		188–194	Wheel Slot 18 ... Wheel Slot 19
		195	Wheel Slot 19
		196–202	Wheel Slot 19 ... Wheel Slot 20
		203	Wheel Slot 20
		204–210	Wheel Slot 20 ... Magenta
		211	Magenta
		212–218	Magenta ... Wheel Slot 21
		219	Wheel Slot 21
		220–226	Wheel Slot 21 ... Wheel Slot 22
		227	Wheel Slot 22
		228–234	Wheel Slot 22 ... Wheel Slot 23
		235	Wheel Slot 23
		236–242	Wheel Slot 23 ... Wheel Slot 24
		243	Wheel Slot 24
		244–249	Wheel Slot 24 ... Wheel Slot 25
		250	Wheel Slot 25
		251–253	Color Wheel rotation between the color level 12 to 250
		254–255	Color rotation backward
11	Color Wheel Speed		Fade/Vitesse roue couleurs
		0	Rotation Fast
		1–254	Rotation Fast to slow
		255	Rotation Slow
12	Effects		Patterns programs
		0–9	No Program
		10–19	Program 1
		20–29	Program 2
		30–39	Program 3
		40–49	Program 4

CH	Function	DMX	Description
12	Effects (continued)	50–59	Program 5
		60–69	Program 6
		70–79	Program 7
		80–89	Program 8
		90–99	Program 9
		100–109	Program 10
		110–119	Program 11
		120–129	Program 12
		130–139	Program 13
		140–149	Program 14
		150–159	Program 15
		160–169	Program 16
		170–179	Program 17
		180–189	Program 18
		190–199	Program 19
		200–209	Program 20
		210–255	No used
13	Effects Adjust 1	0–4	Static step 1
		5–9	Static step 2
		10–14	Static step 3
		15–19	Static step 4
		20–24	Static step 5
		25–29	Static step 6
		30–34	Static step 7
		35–39	Static step 8
		40–145	Chase sens horaire (fast to low)
		146–149	Programs auto step: Stop
		150–255	Chase sens anti-horaire (fast to low)
14	Effects Fade		Programs Fade
		0	Normal
		1–255	Fast to low
15	Zoom		Same as CH 9 in the mode “Basic 8B Mode 15CH” (p. 13)
16	Dimmer Mode		Same as CH 10 in the mode “Basic 8B Mode 15CH” (p. 13)
17	Control	0–5	No function
		6–17	Inversion Pan on (Maintient 3s)
		18–29	Inversion Pan off (Maintient 3s)
		30–41	Inversion tilt on (Maintient 3s)
		42–53	Inversion tilt off (Maintient 3s)
		54–65	Fan Silent (Maintient 3s)
		66–77	Fan Auto (Maintient 3s)
		78–89	Fan High (Maintient 3s)
		90–101	Linear Dimmer Curve(Maintient 3s)

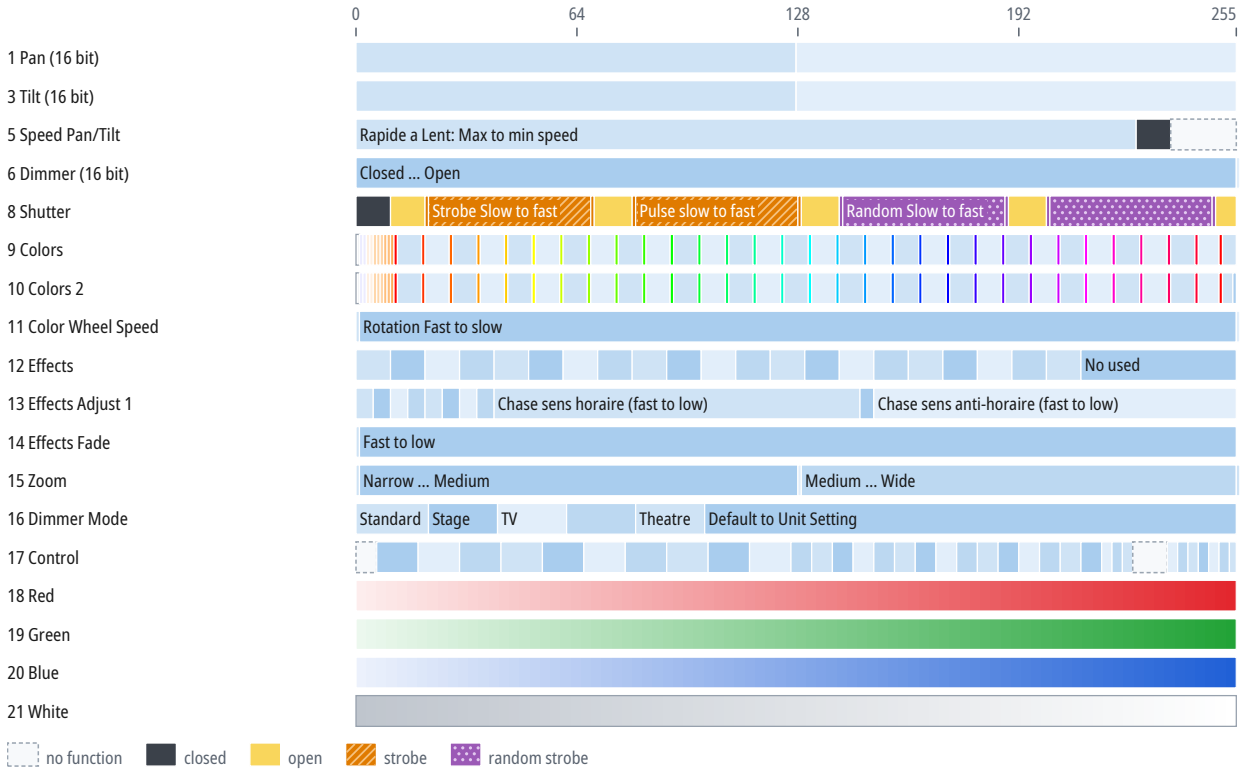
CH	Function	DMX	Description
17	Control (continued)	102–113	Square Dimmer Curve (Maintient 3s)
		114–125	Inv-Square Dimmer Curve (Maintient 3s)
		126–131	S - Dimmer Curve (Maintient 3s)
		132–137	Led Freq 900 Hz (Maintient 3s)
		138–143	Led Freq 1000 Hz (Maintient 3s)
		144–149	Led Freq 1100 Hz (Maintient 3s)
		150–155	Led Freq 1200 Hz (Maintient 3s)
		156–161	Led Freq 1300 Hz (Maintient 3s)
		162–167	Led Freq 1400 Hz (Maintient 3s)
		168–173	Led Freq 1500 Hz (Maintient 3s)
		174–179	Led Freq 2500 Hz (Maintient 3s)
		180–185	Led Freq 4000 Hz (Maintient 3s)
		186–191	Led Freq 5000 Hz (Maintient 3s)
		192–197	Led Freq 10000 Hz (Maintient 3s)
		198–203	Led Freq 15000 Hz (Maintient 3s)
		204–209	Led Freq 20000 Hz (Maintient 3s)
		210–215	Led Freq 25000 Hz (Maintient 3s)
		216–218	pan/tilt reset(Maintient 3s)
		219–221	Only Head reset (Maintient 3s)
		222–224	Reset All Functions(Maintient 3s)
		225–234	No function
		235–237	Klingnet Desactive
		238–240	Leds controled Klingnet only
		241–243	Leds controled Klingnet + Dmx
		244–246	Klingnet Calibration OFF
		247–249	Klingnet Calibration ON
		250–252	White Calibred by IC (Maintient 3s)
		253–255	Fixed White values (Maintient 3s)
18	Red	0–255	
19	Red Fine	0–255	Fine adjustment of CH 18
20	Green	0–255	
21	Green Fine	0–255	Fine adjustment of CH 20
22	Blue	0–255	
23	Blue Fine	0–255	Fine adjustment of CH 22
24	White	0–255	
25	White Fine	0–255	Fine adjustment of CH 24

Mode Standard 8b Mode 21CH

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 6 Dimmer above 0; CH 8 Shutter at 10–19 “Shutter open”. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 255, CH 8 Shutter 255, CH 9 Colors 0, CH 10 Colors 2 0, CH 11 Color Wheel Speed 0, CH 18 Red 255, CH 19 Green 255, CH 20 Blue 255, CH 21 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Basic 8B Mode 15CH” (p. 12)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Basic 8B Mode 15CH” (p. 12)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Basic 8B Mode 15CH” (p. 12)
6	Dimmer		Same as CH 6 in the mode “Basic 8B Mode 15CH” (p. 12)
7	Dimmer Fine	0–255	Fine adjustment of CH 6
8	Shutter		Same as CH 8 in the mode “Standard 16b Mode 25CH” (p. 16)
9	Colors	0	RGBW Max
		1	White 10000 K
		2	White 8000 K
		3	White 6500 K
		4	White 5600 K
		5	White 5000 K
		6	White 4500 K

CH	Function	DMX	Description
9	Colors (continued)	7	White 4000 K
		8	White 3200 K
		9	White 3000 K
		10	White 2700 K
		11	Red
		12–18	Red ... Wheel Slot 2
		19	Wheel Slot 2
		20–26	Wheel Slot 2 ... Wheel Slot 3
		27	Wheel Slot 3
		28–34	Wheel Slot 3 ... Wheel Slot 4
		35	Wheel Slot 4
		36–42	Wheel Slot 4 ... Wheel Slot 5
		43	Wheel Slot 5
		44–50	Wheel Slot 5 ... Yellow
		51	Yellow
		52–58	Yellow ... Wheel Slot 7
		59	Wheel Slot 7
		60–66	Wheel Slot 7 ... Wheel Slot 8
		67	Wheel Slot 8
		68–74	Wheel Slot 8 ... Wheel Slot 9
		75	Wheel Slot 9
		76–82	Wheel Slot 9 ... Wheel Slot 10
		83	Wheel Slot 10
		84–90	Wheel Slot 10 ... Green
		91	Green
		92–98	Green ... Wheel Slot 1
		99	Wheel Slot 1
		100–106	Wheel Slot 1 ... Wheel Slot 6
		107	Wheel Slot 6
		108–114	Wheel Slot 6 ... Wheel Slot 11
		115	Wheel Slot 11
		116–122	Wheel Slot 11 ... Wheel Slot 12
		123	Wheel Slot 12
		124–130	Wheel Slot 12 ... Cyan
		131	Cyan
		132–138	Cyan ... Wheel Slot 14
		139	Wheel Slot 14
		140–146	Wheel Slot 14 ... Wheel Slot 13
		147	Wheel Slot 13
		148–154	Wheel Slot 13 ... Wheel Slot 15
		155	Wheel Slot 15
		156–162	Wheel Slot 15 ... Wheel Slot 16

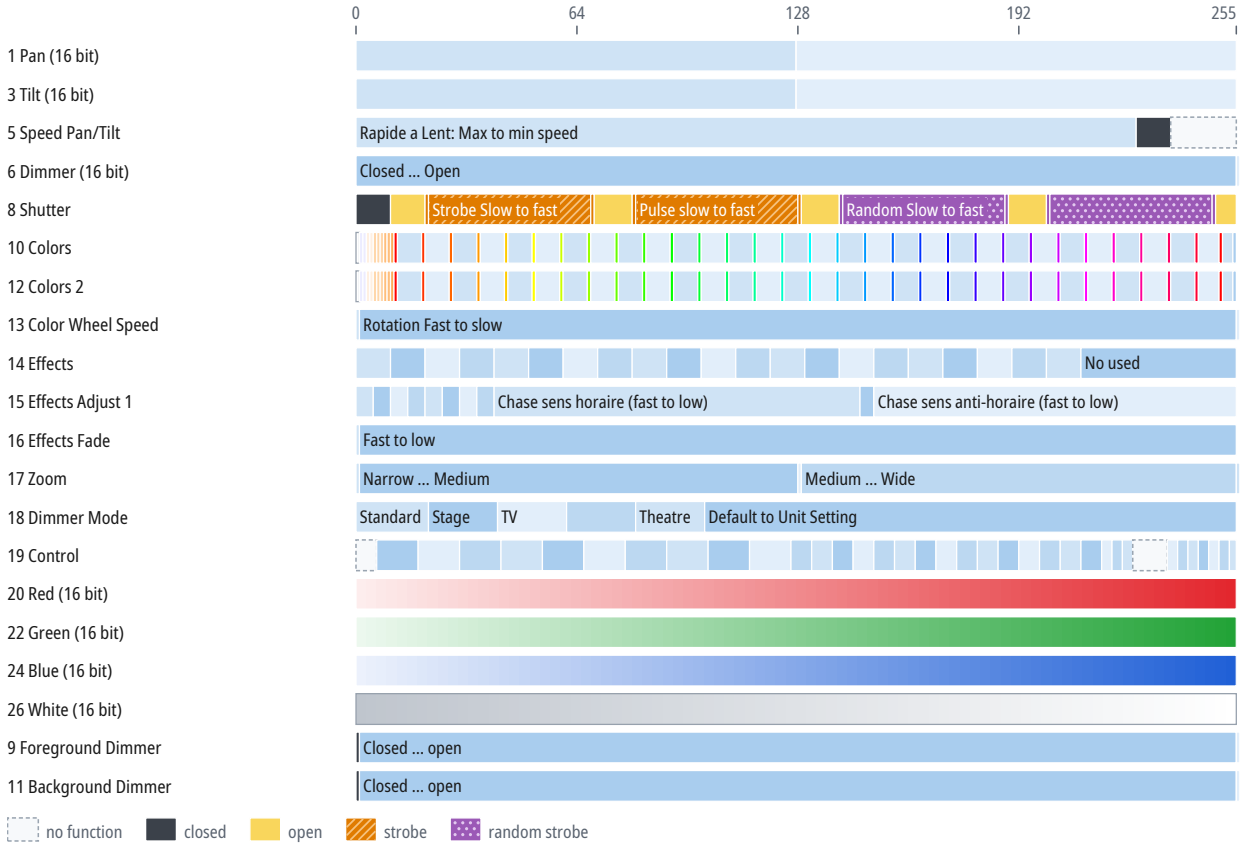
CH	Function	DMX	Description
9	Colors (continued)	163	Wheel Slot 16
		164–170	Wheel Slot 16 ... Blue
		171	Blue
		172–178	Blue ... Wheel Slot 17
		179	Wheel Slot 17
		180–186	Wheel Slot 17 ... Wheel Slot 18
		187	Wheel Slot 18
		188–194	Wheel Slot 18 ... Wheel Slot 19
		195	Wheel Slot 19
		196–202	Wheel Slot 19 ... Wheel Slot 20
		203	Wheel Slot 20
		204–210	Wheel Slot 20 ... Magenta
		211	Magenta
		212–218	Magenta ... Wheel Slot 21
		219	Wheel Slot 21
		220–226	Wheel Slot 21 ... Wheel Slot 22
		227	Wheel Slot 22
		228–234	Wheel Slot 22 ... Wheel Slot 23
		235	Wheel Slot 23
		236–242	Wheel Slot 23 ... Wheel Slot 24
		243	Wheel Slot 24
		244–249	Wheel Slot 24 ... Wheel Slot 25
		250	Wheel Slot 25
		251–255	Color 1 Wheel Spin 1
10	Colors 2		Same as CH 10 in the mode “Standard 16b Mode 25CH” (p. 19)
11	Color Wheel Speed		Same as CH 11 in the mode “Standard 16b Mode 25CH” (p. 20)
12	Effects		Same as CH 12 in the mode “Standard 16b Mode 25CH” (p. 20)
13	Effects Adjust 1		Same as CH 13 in the mode “Standard 16b Mode 25CH” (p. 21)
14	Effects Fade		Same as CH 14 in the mode “Standard 16b Mode 25CH” (p. 21)
15	Zoom		Same as CH 9 in the mode “Basic 8B Mode 15CH” (p. 13)
16	Dimmer Mode		Same as CH 10 in the mode “Basic 8B Mode 15CH” (p. 13)
17	Control		Same as CH 17 in the mode “Standard 16b Mode 25CH” (p. 21)
18	Red	0–255	
19	Green	0–255	
20	Blue	0–255	
21	White	0–255	

Mode Extended 16B Mode 27CH

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 6 Dimmer above 0; CH 8 Shutter at 10–19 “Shutter open”. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 255, CH 8 Shutter 255, CH 10 Colors 0, CH 12 Colors 2 0, CH 13 Color Wheel Speed 0, CH 20 Red 255, CH 22 Green 255, CH 24 Blue 255, CH 26 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Basic 8B Mode 15CH” (p. 12)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Basic 8B Mode 15CH” (p. 12)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Basic 8B Mode 15CH” (p. 12)
6	Dimmer		Same as CH 6 in the mode “Basic 8B Mode 15CH” (p. 12)
7	Dimmer Fine	0–255	Fine adjustment of CH 6
8	Shutter		Same as CH 8 in the mode “Standard 16b Mode 25CH” (p. 16)
9	Foreground Dimmer	0	Closed
		1–254	Closed ... open
		255	Open
10	Colors		Same as CH 9 in the mode “Standard 16b Mode 25CH” (p. 17)
11	Background Dimmer	0	Closed

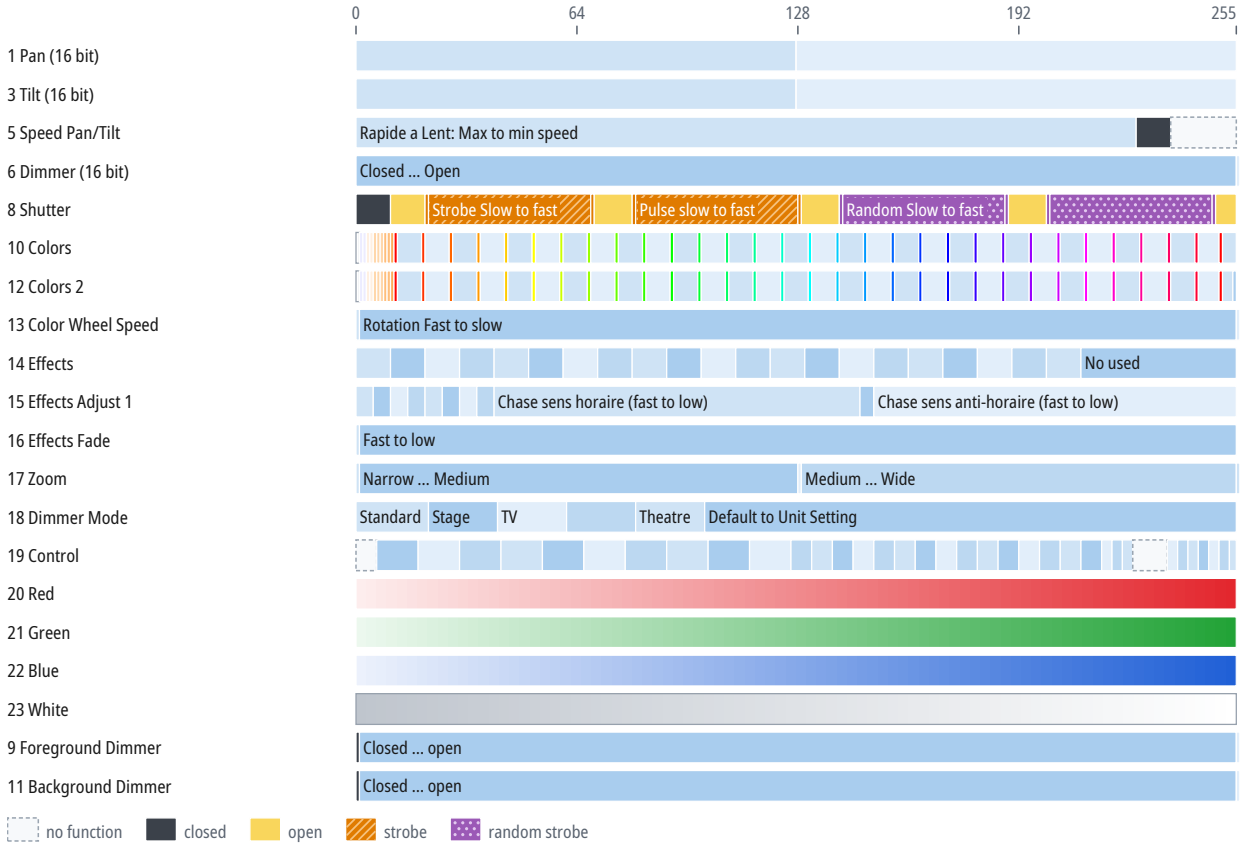
CH	Function	DMX	Description
11	Background Dimmer (continued)	1–254	Closed ... open
		255	Open
12	Colors 2		Same as CH 10 in the mode “Standard 16b Mode 25CH” (p. 19)
13	Color Wheel Speed		Same as CH 11 in the mode “Standard 16b Mode 25CH” (p. 20)
14	Effects		Same as CH 12 in the mode “Standard 16b Mode 25CH” (p. 20)
15	Effects Adjust 1		Same as CH 13 in the mode “Standard 16b Mode 25CH” (p. 21)
16	Effects Fade		Same as CH 14 in the mode “Standard 16b Mode 25CH” (p. 21)
17	Zoom		Same as CH 9 in the mode “Basic 8B Mode 15CH” (p. 13)
18	Dimmer Mode		Same as CH 10 in the mode “Basic 8B Mode 15CH” (p. 13)
19	Control		Same as CH 17 in the mode “Standard 16b Mode 25CH” (p. 21)
20	Red	0–255	
21	Red Fine	0–255	Fine adjustment of CH 20
22	Green	0–255	
23	Green Fine	0–255	Fine adjustment of CH 22
24	Blue	0–255	
25	Blue Fine	0–255	Fine adjustment of CH 24
26	White	0–255	
27	White Fine	0–255	Fine adjustment of CH 26

Mode Extended 8B Mode 23CH

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 6 Dimmer above 0; CH 8 Shutter at 10–19 “Shutter open”. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 255, CH 8 Shutter 255, CH 10 Colors 0, CH 12 Colors 2 0, CH 13 Color Wheel Speed 0, CH 20 Red 255, CH 21 Green 255, CH 22 Blue 255, CH 23 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Basic 8B Mode 15CH” (p. 12)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Basic 8B Mode 15CH” (p. 12)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Basic 8B Mode 15CH” (p. 12)
6	Dimmer		Same as CH 6 in the mode “Basic 8B Mode 15CH” (p. 12)
7	Dimmer Fine	0–255	Fine adjustment of CH 6
8	Shutter		Same as CH 8 in the mode “Standard 16b Mode 25CH” (p. 16)
9	Foreground Dimmer		Same as CH 9 in the mode “Extended 16B Mode 27CH” (p. 26)
10	Colors		Same as CH 9 in the mode “Standard 8b Mode 21CH” (p. 23)
11	Background Dimmer		Same as CH 11 in the mode “Extended 16B Mode 27CH” (p. 26)
12	Colors 2		Same as CH 10 in the mode “Standard 16b Mode 25CH” (p. 19)

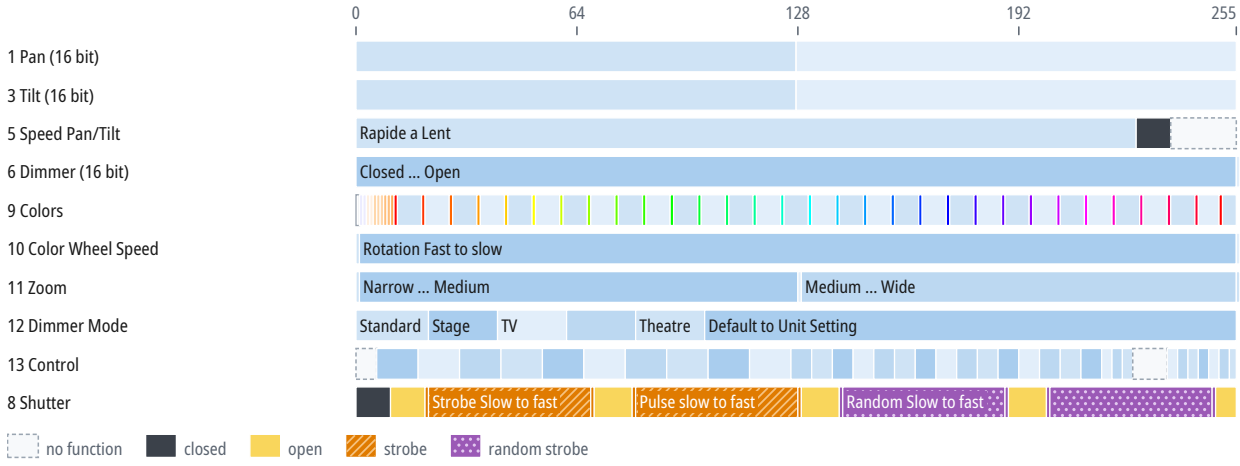
CH	Function	DMX	Description
13	Color Wheel Speed		Same as CH 11 in the mode “Standard 16b Mode 25CH” (p. 20)
14	Effects		Same as CH 12 in the mode “Standard 16b Mode 25CH” (p. 20)
15	Effects Adjust 1		Same as CH 13 in the mode “Standard 16b Mode 25CH” (p. 21)
16	Effects Fade		Same as CH 14 in the mode “Standard 16b Mode 25CH” (p. 21)
17	Zoom		Same as CH 9 in the mode “Basic 8B Mode 15CH” (p. 13)
18	Dimmer Mode		Same as CH 10 in the mode “Basic 8B Mode 15CH” (p. 13)
19	Control		Same as CH 17 in the mode “Standard 16b Mode 25CH” (p. 21)
20	Red	0–255	
21	Green	0–255	
22	Blue	0–255	
23	White	0–255	

Mode Pixel 16b Mode 69CH

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 6 Dimmer above 0; CH 8 Shutter at 10–19 “Shutter open”. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 255, CH 8 Shutter 255, CH 9 Colors 0, CH 10 Color Wheel Speed 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Basic 8B Mode 15CH” (p. 12)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Basic 8B Mode 15CH” (p. 12)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0–225	Rapide a Lent
		226–235	Blackout Mode
		236–255	No function
6	Dimmer		Same as CH 6 in the mode “Basic 8B Mode 15CH” (p. 12)

CH	Function	DMX	Description
7	Dimmer Fine	0–255	Fine adjustment of CH 6
8	Shutter		Same as CH 8 in the mode “Standard 16b Mode 25CH” (p. 16)
9	Colors	0	RGBW Max
		1	White 10000 K
		2	White 8000 K
		3	White 6500 K
		4	White 5600 K
		5	White 5000 K
		6	White 4500 K
		7	White 4000 K
		8	White 3200 K
		9	White 3000 K
		10	White 2700 K
		11	Red
		12–18	Red ... Wheel Slot 2
		19	Wheel Slot 2
		20–26	Wheel Slot 2 ... Wheel Slot 3
		27	Wheel Slot 3
		28–34	Wheel Slot 3 ... Wheel Slot 4
		35	Wheel Slot 4
		36–42	Wheel Slot 4 ... Wheel Slot 5
		43	Wheel Slot 5
		44–50	Wheel Slot 5 ... Yellow
		51	Yellow
		52–58	Yellow ... Wheel Slot 7
		59	Wheel Slot 7
		60–66	Wheel Slot 7 ... Wheel Slot 8
		67	Wheel Slot 8
		68–74	Wheel Slot 8 ... Wheel Slot 9
		75	Wheel Slot 9
		76–82	Wheel Slot 9 ... Wheel Slot 10
		83	Wheel Slot 10
		84–90	Wheel Slot 10 ... Green
		91	Green
		92–98	Green ... Wheel Slot 1
		99	Wheel Slot 1
		100–106	Wheel Slot 1 ... Wheel Slot 6
		107	Wheel Slot 6
		108–114	Wheel Slot 6 ... Wheel Slot 11
		115	Wheel Slot 11
		116–122	Wheel Slot 11 ... Wheel Slot 12
		123	Wheel Slot 12

CH	Function	DMX	Description
9	Colors (continued)	124–130	Wheel Slot 12 ... Cyan
		131	Cyan
		132–138	Cyan ... Wheel Slot 14
		139	Wheel Slot 14
		140–146	Wheel Slot 14 ... Wheel Slot 13
		147	Wheel Slot 13
		148–154	Wheel Slot 13 ... Wheel Slot 15
		155	Wheel Slot 15
		156–162	Wheel Slot 15 ... Wheel Slot 16
		163	Wheel Slot 16
		164–170	Wheel Slot 16 ... Bleu
		171	Bleu
		172–178	Bleu ... Wheel Slot 17
		179	Wheel Slot 17
		180–186	Wheel Slot 17 ... Wheel Slot 18
		187	Wheel Slot 18
		188–194	Wheel Slot 18 ... Wheel Slot 19
		195	Wheel Slot 19
		196–202	Wheel Slot 19 ... Wheel Slot 20
		203	Wheel Slot 20
		204–210	Wheel Slot 20 ... Magenta
		211	Magenta
		212–218	Magenta ... Wheel Slot 21
		219	Wheel Slot 21
		220–226	Wheel Slot 21 ... Wheel Slot 22
		227	Wheel Slot 22
		228–234	Wheel Slot 22 ... Wheel Slot 23
		235	Wheel Slot 23
		236–242	Wheel Slot 23 ... Wheel Slot 24
		243	Wheel Slot 24
		244–249	Wheel Slot 24 ... Wheel Slot 25
		250	Wheel Slot 25
		251–255	Color 1 Wheel Spin 3
10	Color Wheel Speed		Same as CH 11 in the mode “Standard 16b Mode 25CH” (p. 20)
11	Zoom		Same as CH 9 in the mode “Basic 8B Mode 15CH” (p. 13)
12	Dimmer Mode		Same as CH 10 in the mode “Basic 8B Mode 15CH” (p. 13)
13	Control	0–5	No function
		6–17	Inversion Pan on (Maintient 3s)
		18–29	Inversion Pan off (Maintient 3s)
		30–41	Inversion tilt on (Maintient 3s)

CH	Function	DMX	Description
13	Control (continued)	42–53	Inversion tilt off (Maintient 3s)
		54–65	Fan Silent (Maintient 3s)
		66–77	Fan Auto (Maintient 3s)
		78–89	Fan High (Maintient 3s)
		90–101	Courbe Linear (Maintient 3s)
		102–113	Courbe Square (Maintient 3s)
		114–125	Courbe Inv-Square (Maintient 3s)
		126–131	Courbe S (Maintient 3s)
		132–137	Led Freq 900 Hz (Maintient 3s)
		138–143	Led Freq 1000 Hz (Maintient 3s)
		144–149	Led Freq 1100 Hz (Maintient 3s)
		150–155	Led Freq 1200 Hz (Maintient 3s)
		156–161	Led Freq 1300 Hz (Maintient 3s)
		162–167	Led Freq 1400 Hz (Maintient 3s)
		168–173	Led Freq 1500 Hz (Maintient 3s)
		174–179	Led Freq 2500 Hz (Maintient 3s)
		180–185	Led Freq 4000 Hz (Maintient 3s)
		186–191	Led Freq 5000 Hz (Maintient 3s)
		192–197	Led Freq 10000 Hz (Maintient 3s)
		198–203	Led Freq 15000 Hz (Maintient 3s)
		204–209	Led Freq 20000 Hz (Maintient 3s)
		210–215	Led Freq 25000 Hz (Maintient 3s)
		216–218	pan/tilt reset(Maintient 3s)
		219–221	Only Head reset (Maintient 3s)
		222–224	Reset general (Maintient 3s)
		225–234	No function
		235–237	Klingnet Desactive
		238–240	Leds controled Klingnet only
		241–243	Leds controled Klingnet + Dmx
		244–246	Klingnet Calibration OFF
		247–249	Klingnet Calibration ON
		250–252	White Calibred by IC (Maintient 3s)
		253–255	Fixed White values (Maintient 3s)
14	Red 1	0–255	
15	Red 1 Fine	0–255	Fine adjustment of CH 14
16	Green 1	0–255	
17	Green 1 Fine	0–255	Fine adjustment of CH 16
18	Blue 1	0–255	
19	Blue 1 Fine	0–255	Fine adjustment of CH 18
20	White 1	0–255	
21	White 1 Fine	0–255	Fine adjustment of CH 20

CH	Function	DMX	Description
22	Red 2	0–255	
23	Red 2 Fine	0–255	Fine adjustment of CH 22
24	Green 2	0–255	
25	Green 2 Fine	0–255	Fine adjustment of CH 24
26	Blue 2	0–255	
27	Blue 2 Fine	0–255	Fine adjustment of CH 26
28	White 2	0–255	
29	White 2 Fine	0–255	Fine adjustment of CH 28
30	Red 3	0–255	
31	Red 3 Fine	0–255	Fine adjustment of CH 30
32	Green 3	0–255	
33	Green 3 Fine	0–255	Fine adjustment of CH 32
34	Blue 3	0–255	
35	Blue 3 Fine	0–255	Fine adjustment of CH 34
36	White 3	0–255	
37	White 3 Fine	0–255	Fine adjustment of CH 36
38	Red 4	0–255	
39	Red 4 Fine	0–255	Fine adjustment of CH 38
40	Green 4	0–255	
41	Green 4 Fine	0–255	Fine adjustment of CH 40
42	Blue 4	0–255	
43	Blue 4 Fine	0–255	Fine adjustment of CH 42
44	White 4	0–255	
45	White 4 Fine	0–255	Fine adjustment of CH 44
46	Red 5	0–255	
47	Red 5 Fine	0–255	Fine adjustment of CH 46
48	Green 5	0–255	
49	Green 5 Fine	0–255	Fine adjustment of CH 48
50	Blue 5	0–255	
51	Blue 5 Fine	0–255	Fine adjustment of CH 50
52	White 5	0–255	
53	White 5 Fine	0–255	Fine adjustment of CH 52
54	Red 6	0–255	
55	Red 6 Fine	0–255	Fine adjustment of CH 54
56	Green 6	0–255	
57	Green 6 Fine	0–255	Fine adjustment of CH 56
58	Blue 6	0–255	
59	Blue 6 Fine	0–255	Fine adjustment of CH 58
60	White 6	0–255	
61	White 6 Fine	0–255	Fine adjustment of CH 60
62	Red 7	0–255	
63	Red 7 Fine	0–255	Fine adjustment of CH 62

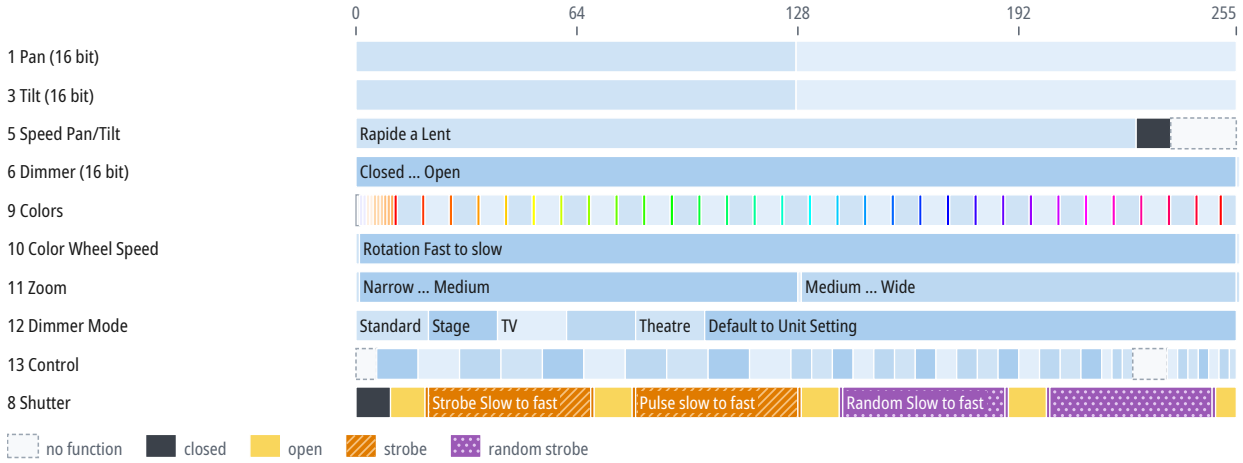
CH	Function	DMX	Description
64	Green 7	0–255	
65	Green 7 Fine	0–255	Fine adjustment of CH 64
66	Blue 7	0–255	
67	Blue 7 Fine	0–255	Fine adjustment of CH 66
68	White 7	0–255	
69	White 7 Fine	0–255	Fine adjustment of CH 68

Mode Pixel 8b Mode 41CH

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 6 Dimmer above 0; CH 8 Shutter at 10–19 “Shutter open”. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 255, CH 8 Shutter 255, CH 9 Colors 0, CH 10 Color Wheel Speed 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Basic 8B Mode 15CH” (p. 12)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Basic 8B Mode 15CH” (p. 12)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Pixel 16b Mode 69CH” (p. 29)
6	Dimmer		Same as CH 6 in the mode “Basic 8B Mode 15CH” (p. 12)
7	Dimmer Fine	0–255	Fine adjustment of CH 6
8	Shutter		Same as CH 8 in the mode “Standard 16b Mode 25CH” (p. 16)
9	Colors		Same as CH 9 in the mode “Pixel 16b Mode 69CH” (p. 30)
10	Color Wheel Speed		Same as CH 11 in the mode “Standard 16b Mode 25CH” (p. 20)
11	Zoom		Same as CH 9 in the mode “Basic 8B Mode 15CH” (p. 13)
12	Dimmer Mode		Same as CH 10 in the mode “Basic 8B Mode 15CH” (p. 13)
13	Control		Same as CH 13 in the mode “Pixel 16b Mode 69CH” (p. 31)
14	Red 1	0–255	

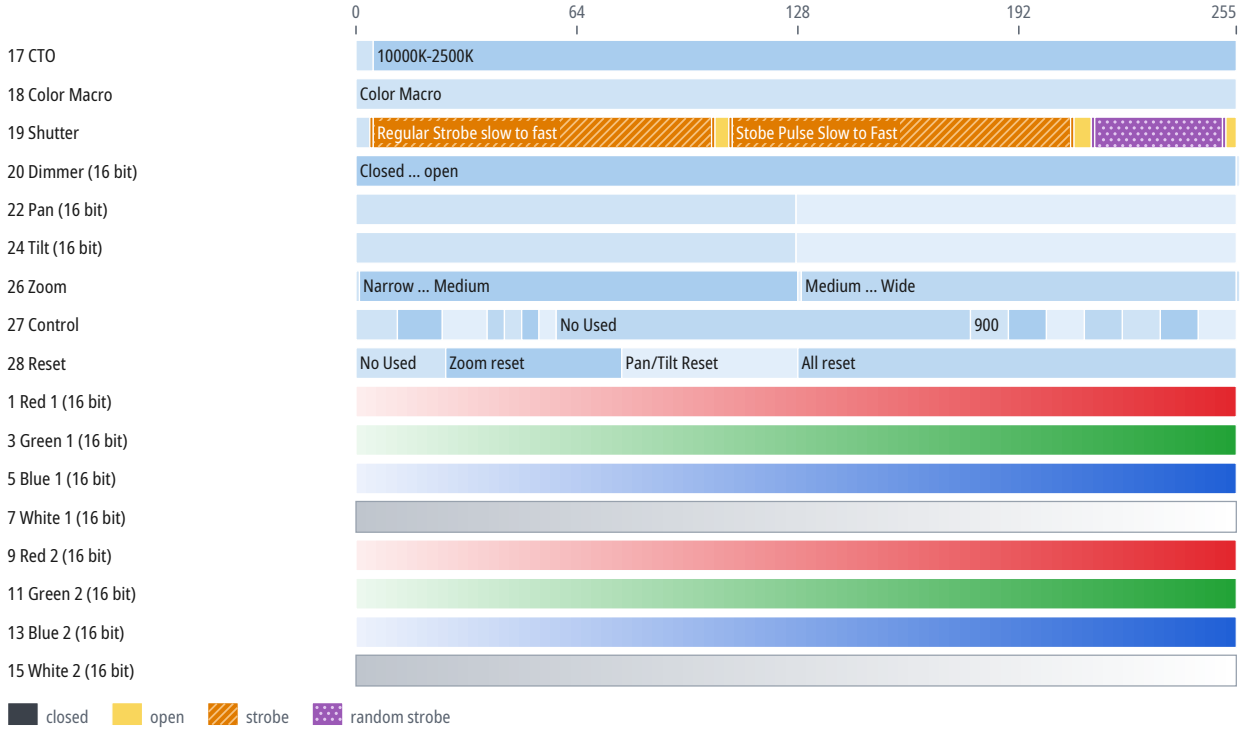
CH	Function	DMX	Description
15	Green 1	0–255	
16	Blue 1	0–255	
17	White 1	0–255	
18	Red 2	0–255	
19	Green 2	0–255	
20	Blue 2	0–255	
21	White 2	0–255	
22	Red 3	0–255	
23	Green 3	0–255	
24	Blue 3	0–255	
25	White 3	0–255	
26	Red 4	0–255	
27	Green 4	0–255	
28	Blue 4	0–255	
29	White 4	0–255	
30	Red 5	0–255	
31	Green 5	0–255	
32	Blue 5	0–255	
33	White 5	0–255	
34	Red 6	0–255	
35	Green 6	0–255	
36	Blue 6	0–255	
37	White 6	0–255	
38	Red 7	0–255	
39	Green 7	0–255	
40	Blue 7	0–255	
41	White 7	0–255	

Mode M-B Mode 28CH

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 20 Dimmer above 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Red 1	0–255	
2	Red 1 Fine	0–255	Fine adjustment of CH 1
3	Green 1	0–255	
4	Green 1 Fine	0–255	Fine adjustment of CH 3
5	Blue 1	0–255	
6	Blue 1 Fine	0–255	Fine adjustment of CH 5
7	White 1	0–255	
8	White 1 Fine	0–255	Fine adjustment of CH 7
9	Red 2	0–255	
10	Red 2 Fine	0–255	Fine adjustment of CH 9
11	Green 2	0–255	
12	Green 2 Fine	0–255	Fine adjustment of CH 11
13	Blue 2	0–255	
14	Blue 2 Fine	0–255	Fine adjustment of CH 13
15	White 2	0–255	
16	White 2 Fine	0–255	Fine adjustment of CH 15
17	CTO	0–4	No Effect
		5–255	10000K-2500K

CH	Function	DMX	Description
18	Color Macro	0–255	Color Macro
19	Shutter	0–3	Light Off
		4	Regular Strobe slow
		5–102	Regular Strobe slow to fast
		103	Regular Strobe fast
		104–107	Light On 1
		108	Stobe Pulse Slow
		109–206	Stobe Pulse Slow to Fast
		207	Stobe Pulse Fast
		208–212	Light On 2
		213	Random Strobe Slow
		214–250	Random Strobe Slow to Fast
		251	Random Strobe Fast
		252–255	Light On 3
20	Dimmer	0–255	Closed ... open
		255	Open
21	Dimmer Fine	0–255	Fine adjustment of CH 20
22	Pan		Same as CH 1 in the mode “Basic 8B Mode 15CH” (p. 12)
23	Pan Fine	0–255	Fine adjustment of CH 22
24	Tilt		Same as CH 3 in the mode “Basic 8B Mode 15CH” (p. 12)
25	Tilt Fine	0–255	Fine adjustment of CH 24
26	Zoom		Same as CH 9 in the mode “Basic 8B Mode 15CH” (p. 13)
27	Control	0–11	No Used
		12–24	Fast P/T
		25–37	Normal P/T
		38–42	Linear Dimmer Curve
		43–47	Square Dimmer Curve
		48–52	Inv-Square Dimmer Curve
		53–57	S - Dimmer Curve
		58–177	No Used
		178–188	900
		189–199	1200
		200–210	2500
		211–221	4000
		222–232	10000
		233–243	25000
		244–255	No Used
28	Reset	0–25	No Used
		26–76	Zoom reset
		77–127	Pan/Tilt Reset
		128–255	All reset

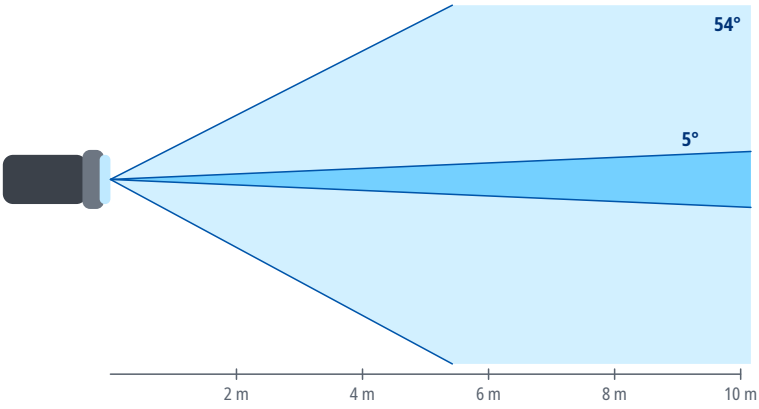
10 Technical specifications

Parameter	Value
Light	
Light source	LED
Optics	
Zoom	5–54°
Movement	
Pan	540°
Tilt	270°
Control	
DMX connection	5-pin XLR IN/OUT
RJ45 connectors	RJ45 IN
RDM	yes (manufacturer ID 0x09E9, device model ID 0x0005)
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	850 W
Power connectors	powerCON TRUE1 IN/OUT
Dimensions and construction	
Weight	6.9 kg
Operating environment	
Operating temperature	-20 to 45 °C

Speeds and ranges

Parameter	Value
Strobe frequency	1–20 Hz

Spot diameter



Distance	Ø 5°	Ø 54°
2 m	0.17 m	2 m
4 m	0.35 m	4.1 m
6 m	0.52 m	6.1 m
8 m	0.7 m	8.2 m
10 m	0.87 m	10.2 m
15 m	1.3 m	15.3 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.