DMX REFERENCE

POLPO5PXL

TIITEE



Manufacturer	TIITEE
GDTF file	TIITEE_POLPO5PXL_114802.gdtf
GDTF revision	20251010 · 2025-10-23
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1 About this manual

This document describes the POLPO5PXL by TIITEE. It was compiled from the GDTF file TIITEE_POLPO5PXL_114802.gdtf from the GDTF-Share library.

File revision: “20251010”.

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 TIITEE; 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
Weight	29 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Mode 1 41DMX 1	41	12	1, 42, 83, 124, ...
Mode 2 71 DMX	71	7	1, 72, 143, 214, ...
Mode 3 75 DMX	75	6	1, 76, 151, 226, ...
Mode 4 85 MDX	85	6	1, 86, 171, 256, ...
Mode 5 170DMX	331	1	1

No light? Check these channels

- Mode 1 41DMX 1: CH 36 Dimmer above 0; CH 38 Shutter 1 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 39 Shutter 2 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255
- Mode 2 71 DMX: CH 66 Dimmer above 0; CH 68 Shutter 1 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 69 Shutter 2 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255
- Mode 3 75 DMX: CH 9 Shutter 1 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 23 Shutter 2 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 37 Shutter 3 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 51 Shutter 4 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 65 Shutter 5 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 71 Dimmer above 0; CH 73 Shutter 6 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255
- Mode 4 85 MDX: CH 9 Dimmer 1 above 0; CH 11 Shutter 1 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 25 Dimmer 2 above 0; CH 27 Shutter 2 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 41 Dimmer 3 above 0; CH 43 Shutter 3 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 57 Dimmer 4 above 0; CH 59 Shutter 4 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 73 Dimmer 5 above 0; CH 75 Shutter 5 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 81 Dimmer 6 above 0; CH 83 Shutter 6 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255
- Mode 5 170DMX: CH 166 Dimmer 1 above 0; CH 168 Dimmer 2 above 0; CH 171 Shutter at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255 (the same in each of the 45 cells)



Read the manual before use



Do not stare into the light



Indoor use only

3 Safety instructions



Read the manual before use



Do not stare into the light



Indoor use only

⚠ WARNING

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

⚠ WARNING

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

⚠ CAUTION

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

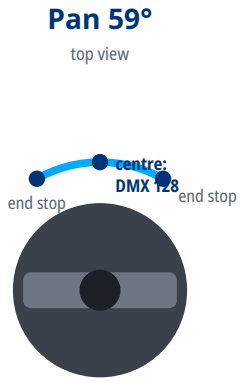
⚠ CAUTION

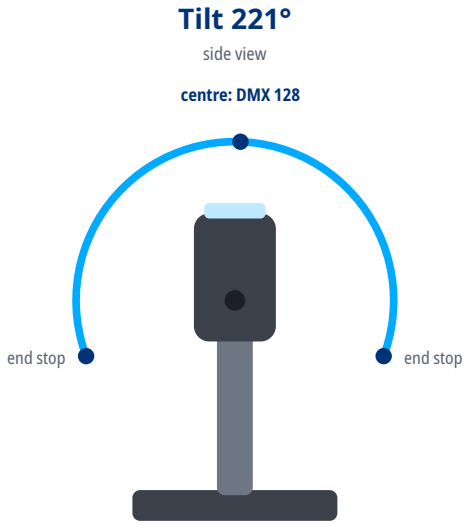
- Strobe and fast flashing light effects can trigger epileptic seizures in susceptible people (photosensitive epilepsy) and can cause nausea or disorientation.
- Inform the audience and performers in advance that strobe effects will be used, for example with a notice at the entrance, and do not use them longer than necessary.

> ⚠ **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





5 Installation

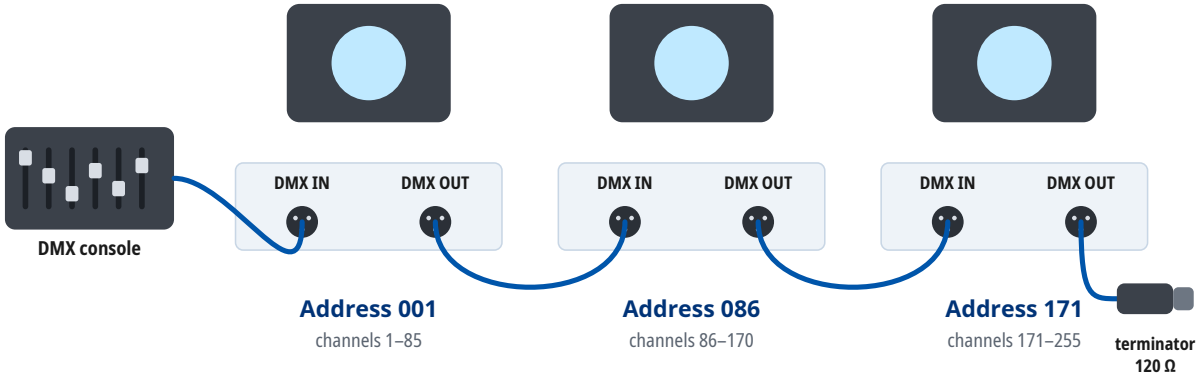
> ⚠ **WARNING**
>
> - Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
> - The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
> - Weight of the device: 29 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 4 85 MDX: every unit occupies 85 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

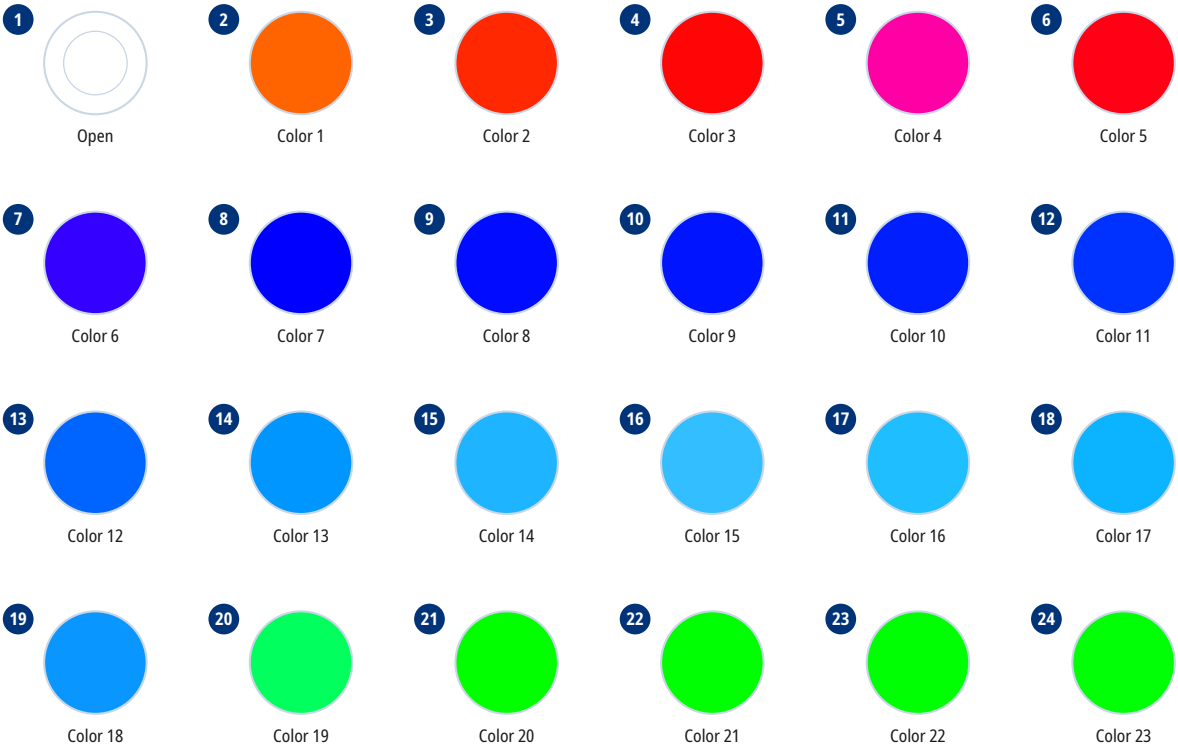
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Mode 5 170DMX”: 331.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

8 Functions at a glance

Functions in each DMX mode

	Mode 1 41DMX 1 41 channels	Mode 2 71 DMX 71 channels	Mode 3 75 DMX 75 channels	Mode 4 85 MDX 85 channels	Mode 5 170DMX 331 channels
Pan / Tilt	**10 channels (1–23)**	**10 channels (1–55)**	**10 channels (1–59)**	**10 channels (1–67)**	**10 channels (1–135)**
Dimmer	**36**	**66**	**71**	**6 channels (9–81)**	**166, 168**
Dimmer resolution	16 bit	16 bit	16 bit	16 bit	8 bit
Shutter / strobe	**38, 39**	**68, 69**	**6 channels (9–73)**	**6 channels (11–83)**	**45 channels (171–331)**
Color mixing	**26–29, 32–34**	**35 channels (5–64)**	**35 channels (5–69)**	**35 channels (5–79)**	**140 channels (5–165)**
Color temperature	**30**				
Color wheel	**31**				
Zoom	**5× (5–25)**	**5× (9–61)**	**5× (10–66)**	**5× (12–76)**	**5× (9–141)**
Pixel control		✓	✓	✓	8 + 8 + 8 + 8 + 8 + 45 cells

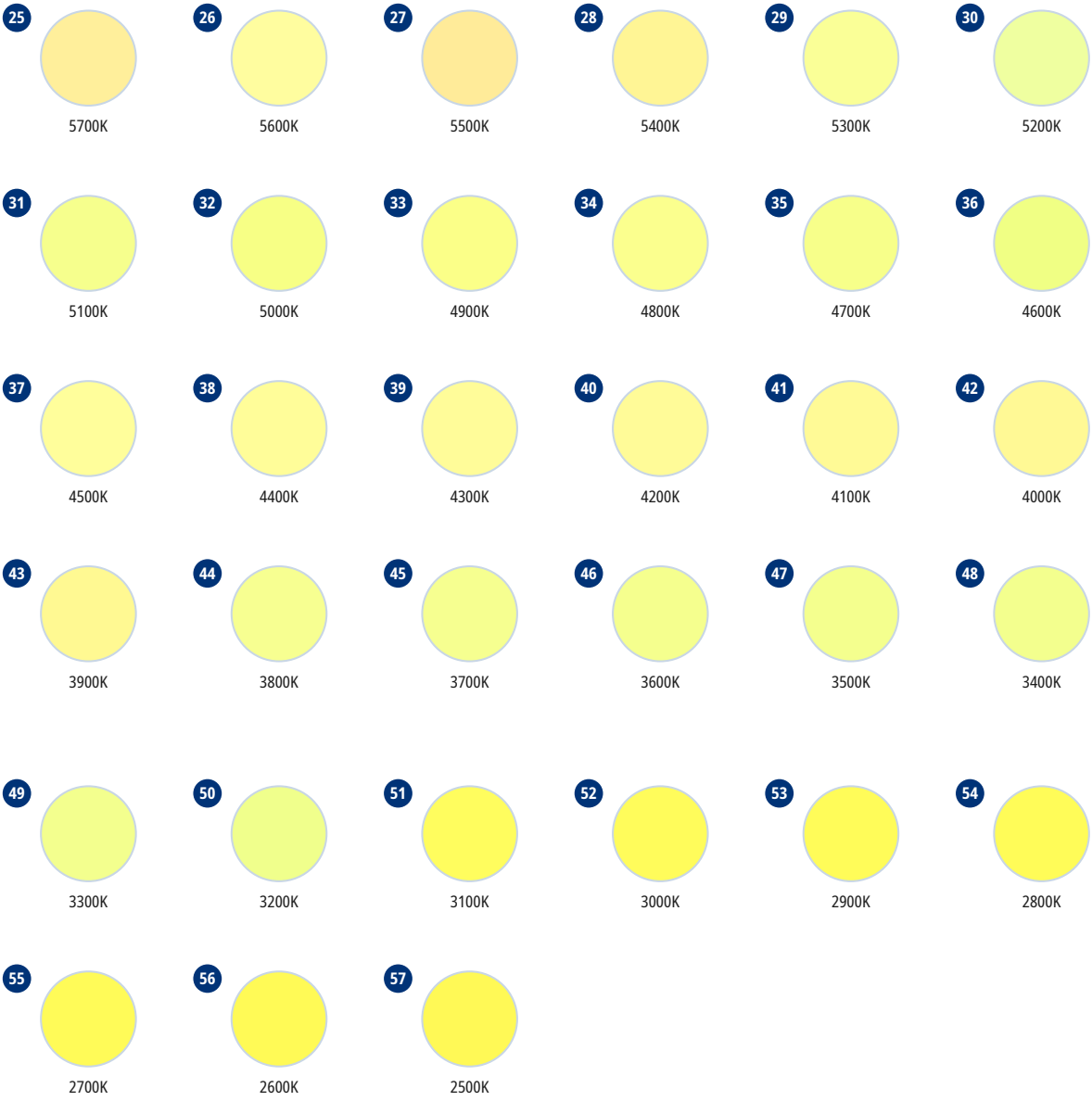
Color wheel 1



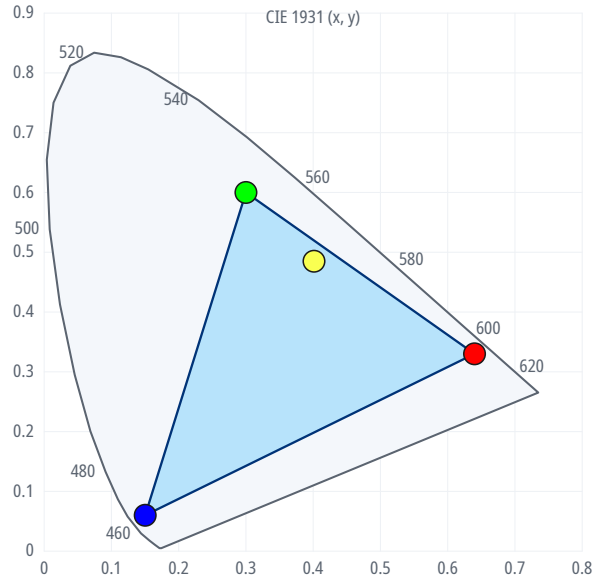
25 Color 24
26 Color 25
27 Color 26
28 Color 27
29 Color 28
30 Color 29
31 Color 30
32 Color 31
33 Color 32
34 Color 33

Color wheel 2

1 Open
2 8000K
3 7900K
4 7800k
5 7700k
6 7600k
7 7500K
8 7400K
9 7300K
10 7200K
11 7100K
12 7000K
13 6900K
14 6800K
15 6700K
16 6600K
17 6500K
18 6400K
19 6300K
20 6200K
21 6100K
22 6000K
23 5900K
24 5800K


25
5700K
26
5600K
27
5500K
28
5400K
29
5300K
30
5200K
31
5100K
32
5000K
33
4900K
34
4800K
35
4700K
36
4600K
37
4500K
38
4400K
39
4300K
40
4200K
41
4100K
42
4000K
43
3900K
44
3800K
45
3700K
46
3600K
47
3500K
48
3400K
49
3300K
50
3200K
51
3100K
52
3000K
53
2900K
54
2800K
55
2700K
56
2600K
57
2500K

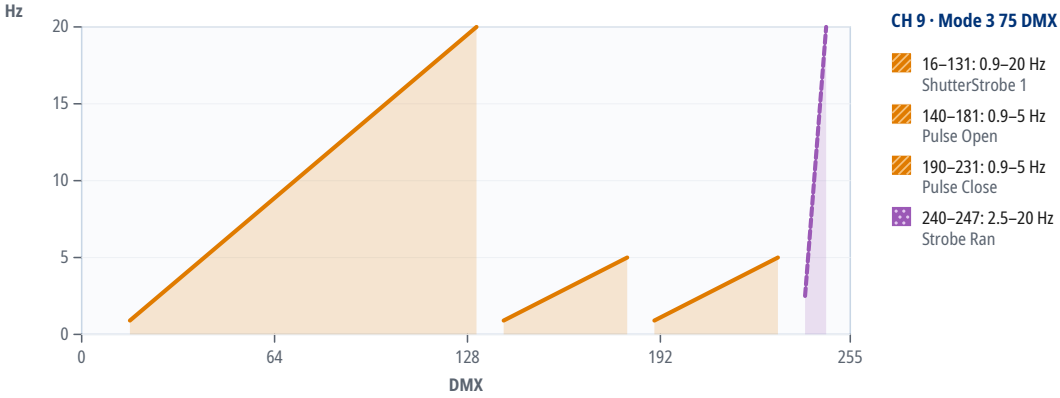
LED colors and the colors they mix



LED	x	y
Red	0.640	0.330
Green	0.300	0.600
Blue	0.150	0.060
Lime	0.401	0.485

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

Strobe rate



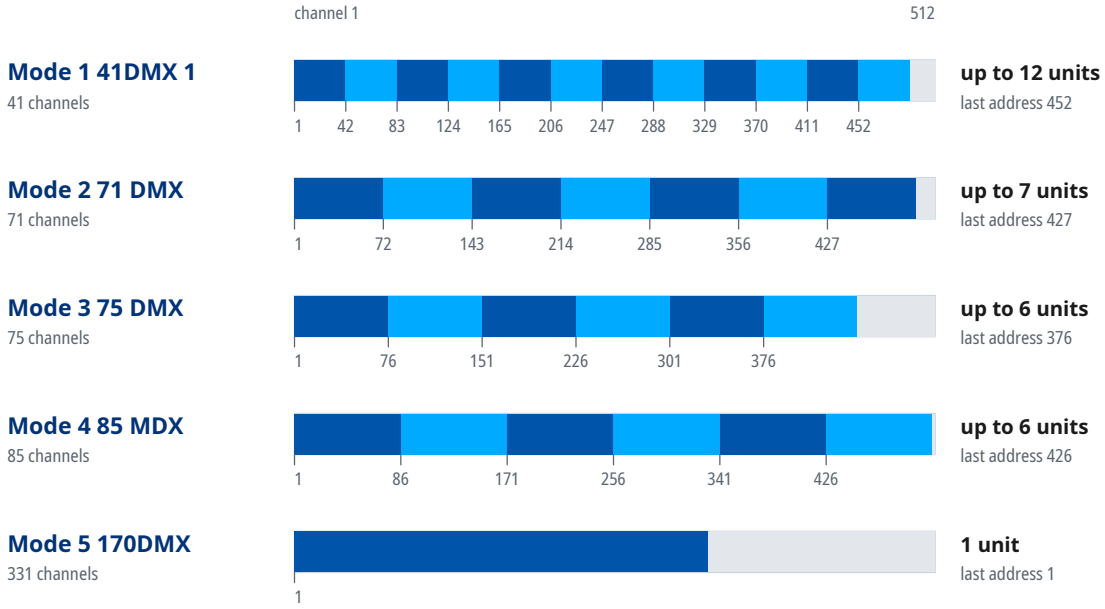
Cells (pixels)

1	2	3	4	5
CH 10	CH 43	CH 76	CH 109	CH 142

5 cells where the GDTF file places them (seen from above), numbered by their first DMX channel (CH) in the mode “Mode 3 75 DMX”.

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Mode 5 170DMX”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	U6 · 1	11	U11 · 1	16	U16 · 1
2	U2 · 1	7	U7 · 1	12	U12 · 1	17	U17 · 1
3	U3 · 1	8	U8 · 1	13	U13 · 1	18	U18 · 1
4	U4 · 1	9	U9 · 1	14	U14 · 1	19	U19 · 1
5	U5 · 1	10	U10 · 1	15	U15 · 1	20	U20 · 1

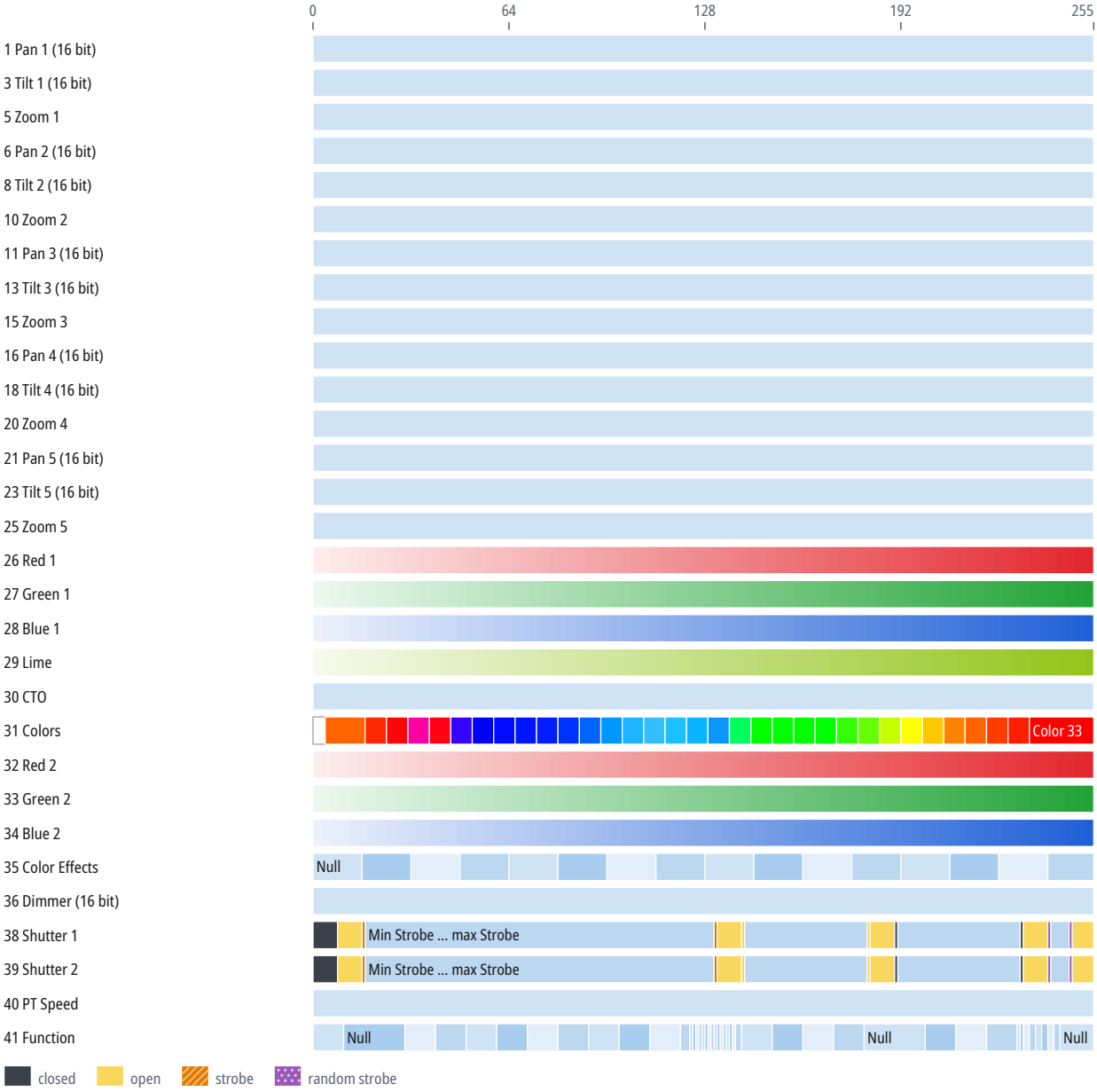
Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode 1 41DMX 1

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 36 Dimmer above 0; CH 38 Shutter 1 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 39 Shutter 2 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255. The GDTF file gives these values for a console's Highlight function: CH 26 Red 1 255, CH 27 Green 1 255, CH 28 Blue 1 255, CH 32 Red 2 255, CH 33 Green 2 255, CH 34 Blue 2 255, CH 36 Dimmer 255, CH 38 Shutter 1 255, CH 39 Shutter 2 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan 1	0–255	59°
2	Pan 1 Fine	0–255	Fine adjustment of CH 1
3	Tilt 1	0–255	221°
4	Tilt 1 Fine	0–255	Fine adjustment of CH 3

CH	Function	DMX	Description
5	Zoom 1	0–255	35–3°
6	Pan 2	0–255	59°
7	Pan 2 Fine	0–255	Fine adjustment of CH 6
8	Tilt 2	0–255	221°
9	Tilt 2 Fine	0–255	Fine adjustment of CH 8
10	Zoom 2	0–255	35–3°
11	Pan 3	0–255	59°
12	Pan 3 Fine	0–255	Fine adjustment of CH 11
13	Tilt 3	0–255	221°
14	Tilt 3 Fine	0–255	Fine adjustment of CH 13
15	Zoom 3	0–255	35–3°
16	Pan 4	0–255	59°
17	Pan 4 Fine	0–255	Fine adjustment of CH 16
18	Tilt 4	0–255	221°
19	Tilt 4 Fine	0–255	Fine adjustment of CH 18
20	Zoom 4	0–255	35–3°
21	Pan 5	0–255	59°
22	Pan 5 Fine	0–255	Fine adjustment of CH 21
23	Tilt 5	0–255	221°
24	Tilt 5 Fine	0–255	Fine adjustment of CH 23
25	Zoom 5	0–255	35–3°
26	Red 1	0–255	
27	Green 1	0–255	
28	Blue 1	0–255	
29	Lime	0–255	
30	CTO	0–255	8000–2500 K
31	Colors	0–3	Open
		4–16	Color 1
		17–23	Color 2
		24–30	Color 3
		31–37	Color 4
		38–44	Color 5
		45–51	Color 6
		52–58	Color 7
		59–65	Color 8
		66–72	Color 9
		73–79	Color 10
		80–86	Color 11
		87–93	Color 12
		94–100	Color 13
		101–107	Color 14
		108–114	Color 15

CH	Function	DMX	Description
31	Colors (continued)	115–121	Color 16
		122–128	Color 17
		129–135	Color 18
		136–142	Color 19
		143–149	Color 20
		150–156	Color 21
		157–163	Color 22
		164–170	Color 23
		171–177	Color 24
		178–184	Color 25
		185–191	Color 26
		192–198	Color 27
		199–205	Color 28
		206–212	Color 29
		213–219	Color 30
		220–226	Color 31
		227–233	Color 32
		234–255	Color 33
32	Red 2	0–255	
33	Green 2	0–255	
34	Blue 2	0–255	
35	Color Effects	0–15	Null
		16–31	Macro Effect 1 Fast to Slow
		32–47	Macro Effect 2 Fast to Slow
		48–63	Macro Effect 3 Fast to Slow
		64–79	Macro Effect 4 Fast to Slow
		80–95	Macro Effect 5 Fast to Slow
		96–111	Macro Effect 6 Fast to Slow
		112–127	Macro Effect 7 Fast to Slow
		128–143	Macro Effect 8 Fast to Slow
		144–159	Macro Effect 9 Fast to Slow
		160–175	Macro Effect 10 Fast to Slow
		176–191	Macro Effect 11 Fast to Slow
		192–207	Macro Effect 12 Fast to Slow
		208–223	Macro Effect 13 Fast to Slow
		224–239	Macro Effect 14 Fast to Slow
		240–255	Macro Effect 15 Fast to Slow
36	Dimmer	0–255	
37	Dimmer Fine	0–255	Fine adjustment of CH 36
38	Shutter 1	0–7	Closed
		8–15	Open
		16	Min Strobe

CH	Function	DMX	Description
38	Shutter 1 (continued)	17–130	Min Strobe ... max Strobe
		131	Max Strobe
		132–139	Open 2
		140	Min Pulse Open
		141–180	Min Pulse Open ... max Pulse Open
		181	Max Pulse Open
		182–189	Open 3
		190	Min Pulse Close
		191–230	Min Pulse Close ... max Pulse Close
		231	Max Pulse Close
		232–239	Open 4
		240	Min Strobe Rand
		241–246	Min Strobe Rand ... max Strobe Rand
		247	Max Strobe Rand
		248–255	Open 5
39	Shutter 2	0–7	Closed
		8–15	Open
		16	Min Strobe
		17–130	Min Strobe ... max Strobe
		131	Max Strobe
		132–139	Open 2
		140	Min Pulse Open
		141–180	Min Pulse Open ... max Pulse Open
		181	Max Pulse Open
		182–189	Open 3
		190	Min Pulse Close
		191–230	Min Pulse Close ... max Pulse Close
		231	Max Pulse Close
		232–239	Open 4
		240	Min Strobe Rand
		241–246	Min Strobe Rand ... max Strobe Rand
		247	Max Strobe Rand
		248–255	Open 5
40	PT Speed	0–255	
41	Function	0–9	Null 2
		10–29	Null
		30–39	Dimmer Curve: Linear
		40–49	Dimmer Curve: Square Law
		50–59	Dimmer Curve: Inv SQ Law
		60–69	Dimmer Curve: S Curve
		70–79	Fan Mode: Standard
		80–89	Fan Mode: Quiet

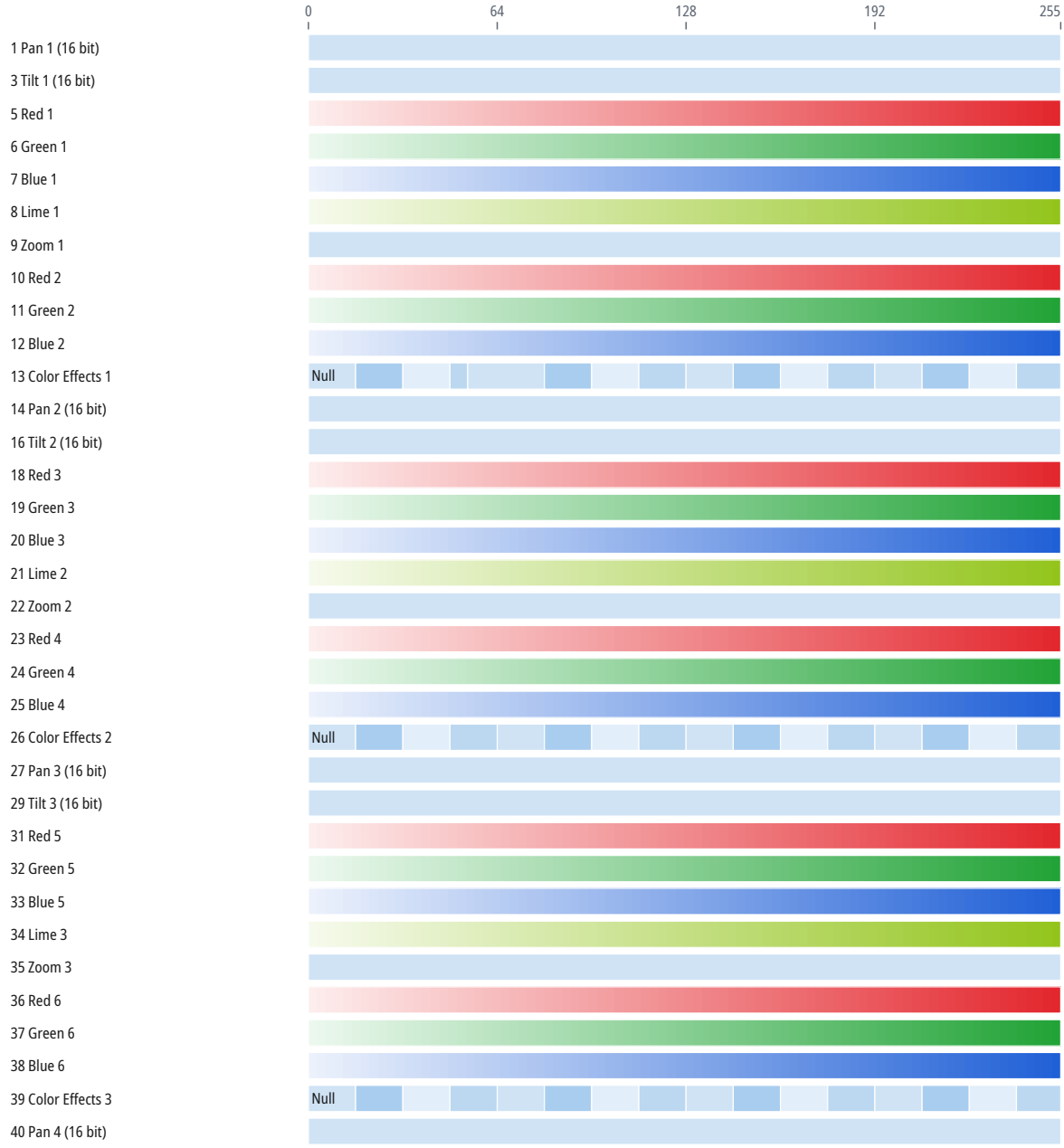
CH	Function	DMX	Description
41	Function (continued)	90–99	Null 3
		100–109	Led Frequency Setting Enable
		110–119	Led Frequency Setting Disable
		120–122	Refresh Rate: Null
		123	900Hz
		124	1000Hz
		125	1100Hz
		126	1200Hz
		127	1300Hz
		128	1400Hz
		129	1500Hz
		130	2500Hz
		131	4000Hz
		132	5000Hz
		133	6000Hz
		134	10KHz
		135	15KHz
		136	20KHz
		137	25KHz
		138–139	Refresh Rate: Null
		140–149	P/T Reset
		150–159	Eff Reset
		160–169	Head Invert: Yes
		170–179	Head Invert: No
		180–199	Null
		200–209	All Reset
		210–219	Dimmer Speed: Fast
		220–229	Dimmer Speed: Smooth
		230	Dimming Start Mode: High
		231	Dimming Start Mode: Low
		232–233	Inver Pixel Order :Yes
		234–235	Inver Pixel Order :No
		236–237	Pan Inver :Yes
		238–239	Pan Inver :No
		240–241	Tilt Inver :Yes
		242–243	Tilt Inver :No
		244–255	Null

Mode 2 71 DMX

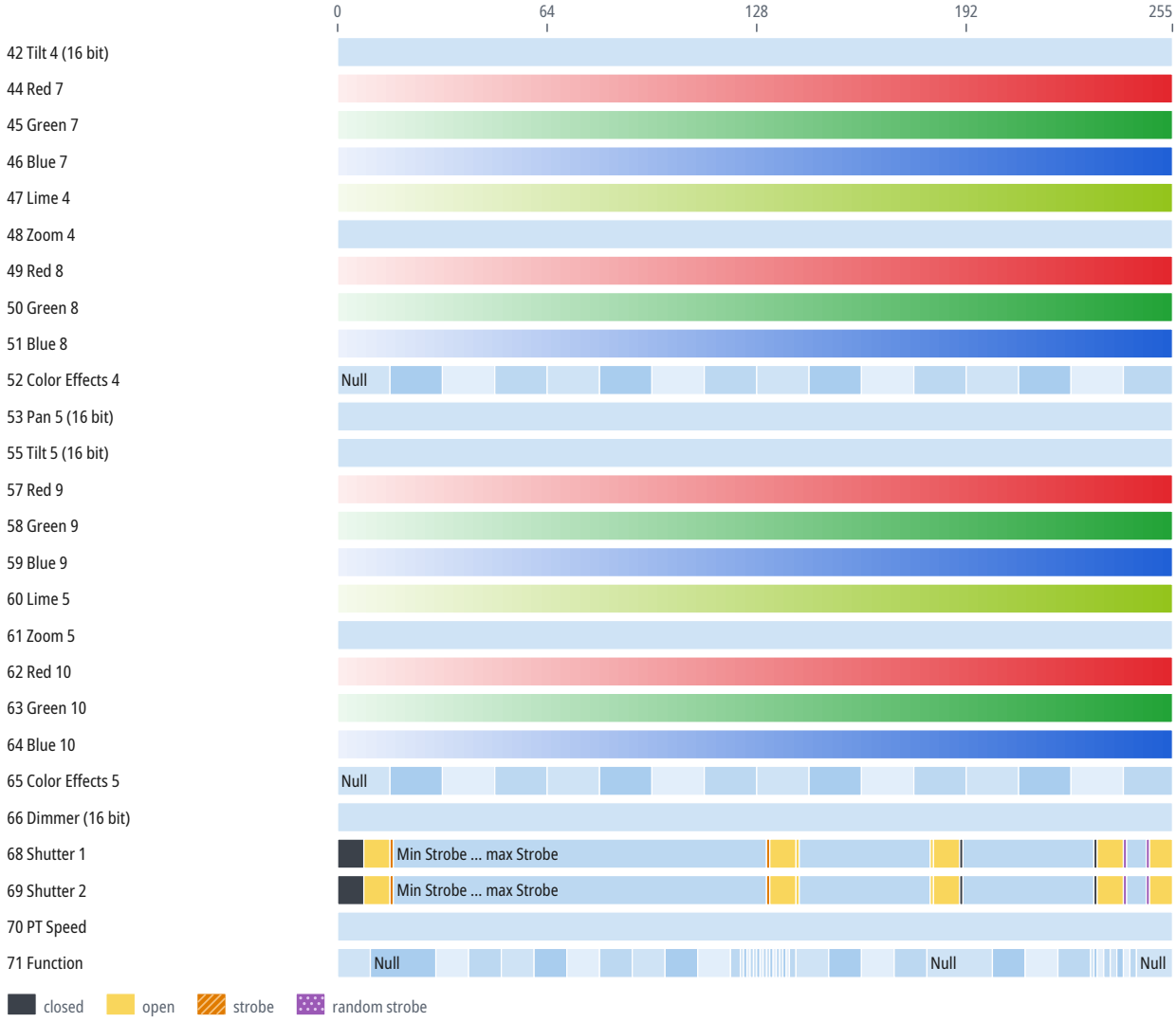
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 66 Dimmer above 0; CH 68 Shutter 1 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 69 Shutter 2 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255. The GDTF file gives these values for a console's Highlight function: CH 5 Red 1 255, CH 6 Green 1 255, CH 7 Blue 1 255, CH 10 Red 2 255, CH 11 Green 2 255, CH 12 Blue 2 255, CH 18 Red 3 255, CH 19 Green 3 255, CH 20 Blue 3 255, CH 23 Red 4 255, CH 24 Green 4 255, CH 25 Blue 4 255, CH 31 Red 5 255, CH 32 Green 5 255, CH 33 Blue 5 255, CH 36 Red 6 255, CH 37 Green 6 255, CH 38 Blue 6 255, CH 44 Red 7 255, CH 45 Green 7 255, CH 46 Blue 7 255, CH 49 Red 8 255, CH 50 Green 8 255, CH 51 Blue 8 255, CH 57 Red 9 255, CH 58 Green 9 255, CH 59 Blue 9 255, CH 62 Red 10 255, CH 63 Green 10 255, CH 64 Blue 10 255, CH 66 Dimmer 255, CH 68 Shutter 1 255, CH 69 Shutter 2 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan 1	0–255	59°
2	Pan 1 Fine	0–255	Fine adjustment of CH 1
3	Tilt 1	0–255	221°
4	Tilt 1 Fine	0–255	Fine adjustment of CH 3
5	Red 1	0–255	
6	Green 1	0–255	
7	Blue 1	0–255	
8	Lime 1	0–255	
9	Zoom 1	0–255	35–3°
10	Red 2	0–255	
11	Green 2	0–255	
12	Blue 2	0–255	
13	Color Effects 1	0–15	Null
		16–31	Macro Effect 1 Fast to Slow
		32–47	Macro Effect 2 Fast to Slow

CH	Function	DMX	Description
13	Color Effects 1 (continued)	48–53	Macro Effect 3 Fast to Slow
		54–79	Macro Effect 4 Fast to Slow
		80–95	Macro Effect 5 Fast to Slow
		96–111	Macro Effect 6 Fast to Slow
		112–127	Macro Effect 7 Fast to Slow
		128–143	Macro Effect 8 Fast to Slow
		144–159	Macro Effect 9 Fast to Slow
		160–175	Macro Effect 10 Fast to Slow
		176–191	Macro Effect 11 Fast to Slow
		192–207	Macro Effect 12 Fast to Slow
		208–223	Macro Effect 13 Fast to Slow
		224–239	Macro Effect 14 Fast to Slow
		240–255	Macro Effect 15 Fast to Slow
14	Pan 2	0–255	59°
15	Pan 2 Fine	0–255	Fine adjustment of CH 14
16	Tilt 2	0–255	221°
17	Tilt 2 Fine	0–255	Fine adjustment of CH 16
18	Red 3	0–255	
19	Green 3	0–255	
20	Blue 3	0–255	
21	Lime 2	0–255	
22	Zoom 2	0–255	35–3°
23	Red 4	0–255	
24	Green 4	0–255	
25	Blue 4	0–255	
26	Color Effects 2	0–15	Null
		16–31	Macro Effect 1 Fast to Slow
		32–47	Macro Effect 2 Fast to Slow
		48–63	Macro Effect 3 Fast to Slow
		64–79	Macro Effect 4 Fast to Slow
		80–95	Macro Effect 5 Fast to Slow
		96–111	Macro Effect 6 Fast to Slow
		112–127	Macro Effect 7 Fast to Slow
		128–143	Macro Effect 8 Fast to Slow
		144–159	Macro Effect 9 Fast to Slow
		160–175	Macro Effect 10 Fast to Slow
		176–191	Macro Effect 11 Fast to Slow
		192–207	Macro Effect 12 Fast to Slow
		208–223	Macro Effect 13 Fast to Slow
		224–239	Macro Effect 14 Fast to Slow
		240–255	Macro Effect 15 Fast to Slow
27	Pan 3	0–255	59°

CH	Function	DMX	Description
28	Pan 3 Fine	0–255	Fine adjustment of CH 27
29	Tilt 3	0–255	221°
30	Tilt 3 Fine	0–255	Fine adjustment of CH 29
31	Red 5	0–255	
32	Green 5	0–255	
33	Blue 5	0–255	
34	Lime 3	0–255	
35	Zoom 3	0–255	35–3°
36	Red 6	0–255	
37	Green 6	0–255	
38	Blue 6	0–255	
39	Color Effects 3	0–15	Null
		16–31	Macro Effect 1 Fast to Slow
		32–47	Macro Effect 2 Fast to Slow
		48–63	Macro Effect 3 Fast to Slow
		64–79	Macro Effect 4 Fast to Slow
		80–95	Macro Effect 5 Fast to Slow
		96–111	Macro Effect 6 Fast to Slow
		112–127	Macro Effect 7 Fast to Slow
		128–143	Macro Effect 8 Fast to Slow
		144–159	Macro Effect 9 Fast to Slow
		160–175	Macro Effect 10 Fast to Slow
		176–191	Macro Effect 11 Fast to Slow
		192–207	Macro Effect 12 Fast to Slow
		208–223	Macro Effect 13 Fast to Slow
		224–239	Macro Effect 14 Fast to Slow
		240–255	Macro Effect 15 Fast to Slow
40	Pan 4	0–255	59°
41	Pan 4 Fine	0–255	Fine adjustment of CH 40
42	Tilt 4	0–255	221°
43	Tilt 4 Fine	0–255	Fine adjustment of CH 42
44	Red 7	0–255	
45	Green 7	0–255	
46	Blue 7	0–255	
47	Lime 4	0–255	
48	Zoom 4	0–255	35–3°
49	Red 8	0–255	
50	Green 8	0–255	
51	Blue 8	0–255	
52	Color Effects 4	0–15	Null
		16–31	Macro Effect 1 Fast to Slow
		32–47	Macro Effect 2 Fast to Slow

CH	Function	DMX	Description
52	Color Effects 4 (continued)	48–63	Macro Effect 3 Fast to Slow
		64–79	Macro Effect 4 Fast to Slow
		80–95	Macro Effect 5 Fast to Slow
		96–111	Macro Effect 6 Fast to Slow
		112–127	Macro Effect 7 Fast to Slow
		128–143	Macro Effect 8 Fast to Slow
		144–159	Macro Effect 9 Fast to Slow
		160–175	Macro Effect 10 Fast to Slow
		176–191	Macro Effect 11 Fast to Slow
		192–207	Macro Effect 12 Fast to Slow
		208–223	Macro Effect 13 Fast to Slow
		224–239	Macro Effect 14 Fast to Slow
		240–255	Macro Effect 15 Fast to Slow
53	Pan 5	0–255	59°
54	Pan 5 Fine	0–255	Fine adjustment of CH 53
55	Tilt 5	0–255	221°
56	Tilt 5 Fine	0–255	Fine adjustment of CH 55
57	Red 9	0–255	
58	Green 9	0–255	
59	Blue 9	0–255	
60	Lime 5	0–255	
61	Zoom 5	0–255	35–3°
62	Red 10	0–255	
63	Green 10	0–255	
64	Blue 10	0–255	
65	Color Effects 5	0–15	Null
		16–31	Macro Effect 1 Fast to Slow
		32–47	Macro Effect 2 Fast to Slow
		48–63	Macro Effect 3 Fast to Slow
		64–79	Macro Effect 4 Fast to Slow
		80–95	Macro Effect 5 Fast to Slow
		96–111	Macro Effect 6 Fast to Slow
		112–127	Macro Effect 7 Fast to Slow
		128–143	Macro Effect 8 Fast to Slow
		144–159	Macro Effect 9 Fast to Slow
		160–175	Macro Effect 10 Fast to Slow
		176–191	Macro Effect 11 Fast to Slow
		192–207	Macro Effect 12 Fast to Slow
		208–223	Macro Effect 13 Fast to Slow
		224–239	Macro Effect 14 Fast to Slow
		240–255	Macro Effect 15 Fast to Slow
66	Dimmer	0–255	

CH	Function	DMX	Description
67	Dimmer Fine	0–255	Fine adjustment of CH 66
68	Shutter 1		Same as CH 38 in the mode “Mode 1 41DMX 1” (p. 14)
69	Shutter 2		Same as CH 39 in the mode “Mode 1 41DMX 1” (p. 15)
70	PT Speed	0–255	
71	Function	0–9	Null 2
		10–29	Null
		30–39	Dimmer Curve: Linear
		40–49	Dimmer Curve: Square Law
		50–59	Dimmer Curve: Inv SQ Law
		60–69	Dimmer Curve: S Curve
		70–79	Fan Mode: Standard
		80–89	Fan Mode: Quiet
		90–99	Null 3
		100–109	Led Frequency Setting Enable
		110–119	Led Frequency Setting Disable
		120–122	Refresh Rate: Null
		123	900Hz
		124	1000Hz
		125	1100Hz
		126	1200Hz
		127	1300Hz
		128	1400Hz
		129	1500Hz
		130	2500Hz
		131	4000Hz
		132	5000Hz
		133	6000Hz
		134	10KHz
		135	15KHz
		136	20KHz
		137	25KHz
		138–139	Refresh Rate: Null
		140–149	P/T Reset
		150–159	Eff Reset
		160–169	Head Invert: Yes
		170–179	Head Invert: No
		180–199	Null
		200–209	All Reset
		210–219	Dimmer Speed: Fast
		220–229	Dimmer Speed: Smooth
		230	Dimming Start Mode: High
		231	Dimming Start Mode: Low

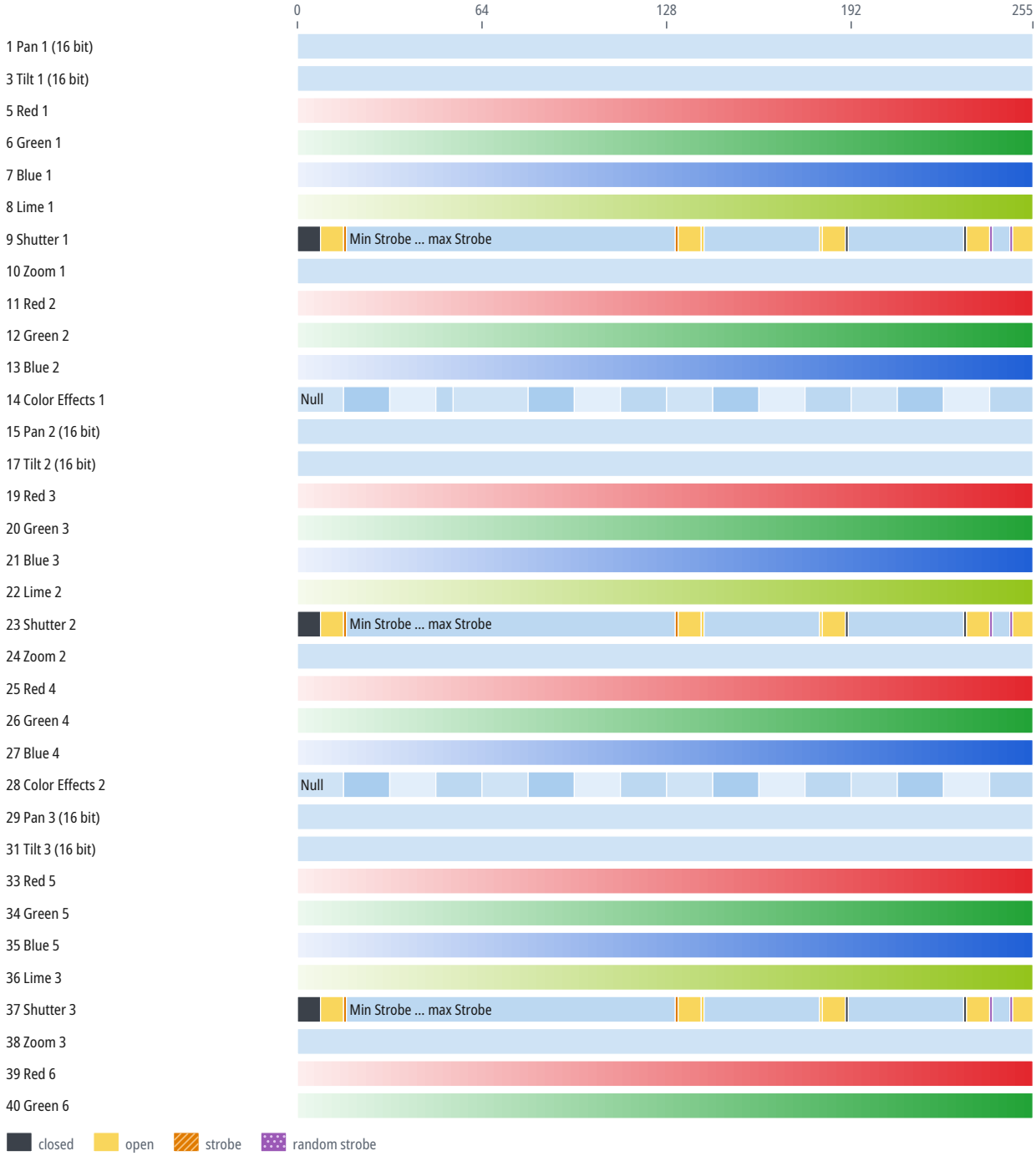
CH	Function	DMX	Description
71	Function (continued)	232–233	Invert Pixel Order Yes
		234–235	Invert Pixel Order NO
		236–237	Pan Invert Yes
		238–239	Pan Invert No
		240–241	Tilt Invert Yes
		242–243	Tilt Invert No
		244–255	Null

Mode 3 75 DMX

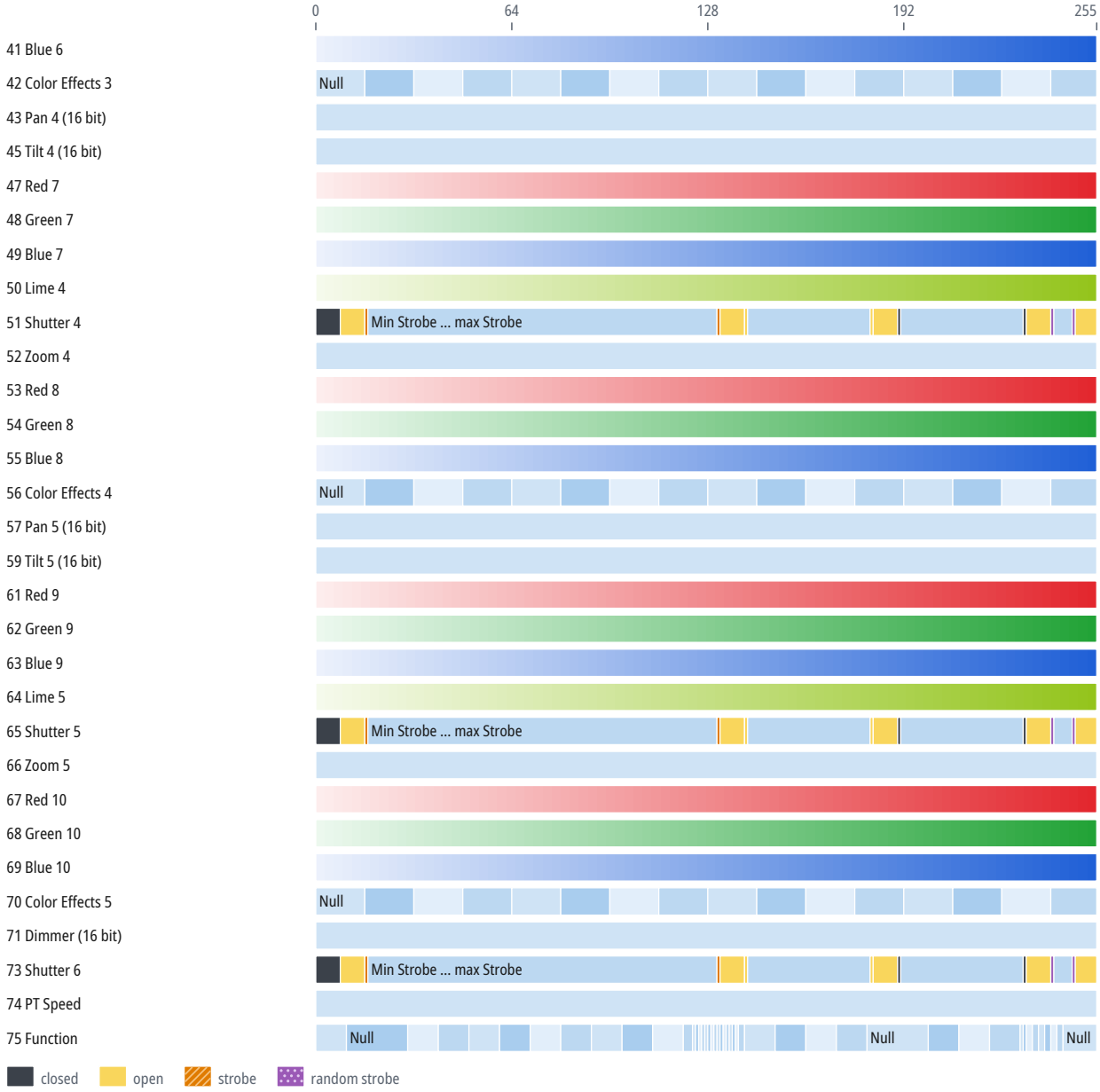
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 9 Shutter 1 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 23 Shutter 2 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 37 Shutter 3 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 51 Shutter 4 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 65 Shutter 5 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 71 Dimmer above 0; CH 73 Shutter 6 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255. The GDTF file gives these values for a console's Highlight function: CH 5 Red 1 255, CH 6 Green 1 255, CH 7 Blue 1 255, CH 9 Shutter 1 255, CH 11 Red 2 255, CH 12 Green 2 255, CH 13 Blue 2 255, CH 19 Red 3 255, CH 20 Green 3 255, CH 21 Blue 3 255, CH 23 Shutter 2 255, CH 25 Red 4 255, CH 26 Green 4 255, CH 27 Blue 4 255, CH 33 Red 5 255, CH 34 Green 5 255, CH 35 Blue 5 255, CH 37 Shutter 3 255, CH 39 Red 6 255, CH 40 Green 6 255, CH 41 Blue 6 255, CH 47 Red 7 255, CH 48 Green 7 255, CH 49 Blue 7 255, CH 51 Shutter 4 255, CH 53 Red 8 255, CH 54 Green 8 255, CH 55 Blue 8 255, CH 61 Red 9 255, CH 62 Green 9 255, CH 63 Blue 9 255, CH 65 Shutter 5 255, CH 67 Red 10 255, CH 68 Green 10 255, CH 69 Blue 10 255, CH 71 Dimmer 255, CH 73 Shutter 6 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan 1	0–255	59°
2	Pan 1 Fine	0–255	Fine adjustment of CH 1
3	Tilt 1	0–255	221°
4	Tilt 1 Fine	0–255	Fine adjustment of CH 3
5	Red 1	0–255	
6	Green 1	0–255	
7	Blue 1	0–255	
8	Lime 1	0–255	
9	Shutter 1		Same as CH 38 in the mode “Mode 1 41DMX 1” (p. 14)
10	Zoom 1	0–255	35–3°
11	Red 2	0–255	

CH	Function	DMX	Description
12	Green 2	0–255	
13	Blue 2	0–255	
14	Color Effects 1		Same as CH 13 in the mode “Mode 2 71 DMX” (p. 18)
15	Pan 2	0–255	59°
16	Pan 2 Fine	0–255	Fine adjustment of CH 15
17	Tilt 2	0–255	221°
18	Tilt 2 Fine	0–255	Fine adjustment of CH 17
19	Red 3	0–255	
20	Green 3	0–255	
21	Blue 3	0–255	
22	Lime 2	0–255	
23	Shutter 2		Same as CH 39 in the mode “Mode 1 41DMX 1” (p. 15)
24	Zoom 2	0–255	35–3°
25	Red 4	0–255	
26	Green 4	0–255	
27	Blue 4	0–255	
28	Color Effects 2		Same as CH 26 in the mode “Mode 2 71 DMX” (p. 19)
29	Pan 3	0–255	59°
30	Pan 3 Fine	0–255	Fine adjustment of CH 29
31	Tilt 3	0–255	221°
32	Tilt 3 Fine	0–255	Fine adjustment of CH 31
33	Red 5	0–255	
34	Green 5	0–255	
35	Blue 5	0–255	
36	Lime 3	0–255	
37	Shutter 3	0–7	Closed
		8–15	Open
		16	Min Strobe
		17–130	Min Strobe ... max Strobe
		131	Max Strobe
		132–139	Open 2
		140	Min Pulse Open
		141–180	Min Pulse Open ... max Pulse Open
		181	Max Pulse Open
		182–189	Open 3
		190	Min Pulse Close
		191–230	Min Pulse Close ... max Pulse Close
		231	Max Pulse Close
		232–239	Open 4
		240	Min Strobe Rand
		241–246	Min Strobe Rand ... max Strobe Rand
		247	Max Strobe Rand

CH	Function	DMX	Description
37	Shutter 3 (continued)	248–255	Open 5
38	Zoom 3	0–255	35–3°
39	Red 6	0–255	
40	Green 6	0–255	
41	Blue 6	0–255	
42	Color Effects 3		Same as CH 39 in the mode “Mode 2 71 DMX” (p. 20)
43	Pan 4	0–255	59°
44	Pan 4 Fine	0–255	Fine adjustment of CH 43
45	Tilt 4	0–255	221°
46	Tilt 4 Fine	0–255	Fine adjustment of CH 45
47	Red 7	0–255	
48	Green 7	0–255	
49	Blue 7	0–255	
50	Lime 4	0–255	
51	Shutter 4	0–7	Closed
		8–15	Open
		16	Min Strobe
		17–130	Min Strobe ... max Strobe
		131	Max Strobe
		132–139	Open 2
		140	Min Pulse Open
		141–180	Min Pulse Open ... max Pulse Open
		181	Max Pulse Open
		182–189	Open 3
		190	Min Pulse Close
		191–230	Min Pulse Close ... max Pulse Close
		231	Max Pulse Close
		232–239	Open 4
		240	Min Strobe Rand
		241–246	Min Strobe Rand ... max Strobe Rand
		247	Max Strobe Rand
		248–255	Open 5
52	Zoom 4	0–255	35–3°
53	Red 8	0–255	
54	Green 8	0–255	
55	Blue 8	0–255	
56	Color Effects 4		Same as CH 52 in the mode “Mode 2 71 DMX” (p. 20)
57	Pan 5	0–255	59°
58	Pan 5 Fine	0–255	Fine adjustment of CH 57
59	Tilt 5	0–255	221°
60	Tilt 5 Fine	0–255	Fine adjustment of CH 59
61	Red 9	0–255	

CH	Function	DMX	Description
62	Green 9	0–255	
63	Blue 9	0–255	
64	Lime 5	0–255	
65	Shutter 5	0–7	Closed
		8–15	Open
		16	Min Strobe
		17–130	Min Strobe ... max Strobe
		131	Max Strobe
		132–139	Open 2
		140	Min Pulse Open
		141–180	Min Pulse Open ... max Pulse Open
		181	Max Pulse Open
		182–189	Open 3
		190	Min Pulse Close
		191–230	Min Pulse Close ... max Pulse Close
		231	Max Pulse Close
		232–239	Open 4
		240	Min Strobe Rand
		241–246	Min Strobe Rand ... max Strobe Rand
		247	Max Strobe Rand
		248–255	Open 5
66	Zoom 5	0–255	35–3°
67	Red 10	0–255	
68	Green 10	0–255	
69	Blue 10	0–255	
70	Color Effects 5		Same as CH 65 in the mode “Mode 2 71 DMX” (p. 21)
71	Dimmer	0–255	
72	Dimmer Fine	0–255	Fine adjustment of CH 71
73	Shutter 6	0–7	Closed
		8–15	Open
		16	Min Strobe
		17–130	Min Strobe ... max Strobe
		131	Max Strobe
		132–139	Open 2
		140	Min Pulse Open
		141–180	Min Pulse Open ... max Pulse Open
		181	Max Pulse Open
		182–189	Open 3
		190	Min Pulse Close
		191–230	Min Pulse Close ... max Pulse Close
		231	Max Pulse Close
		232–239	Open 4

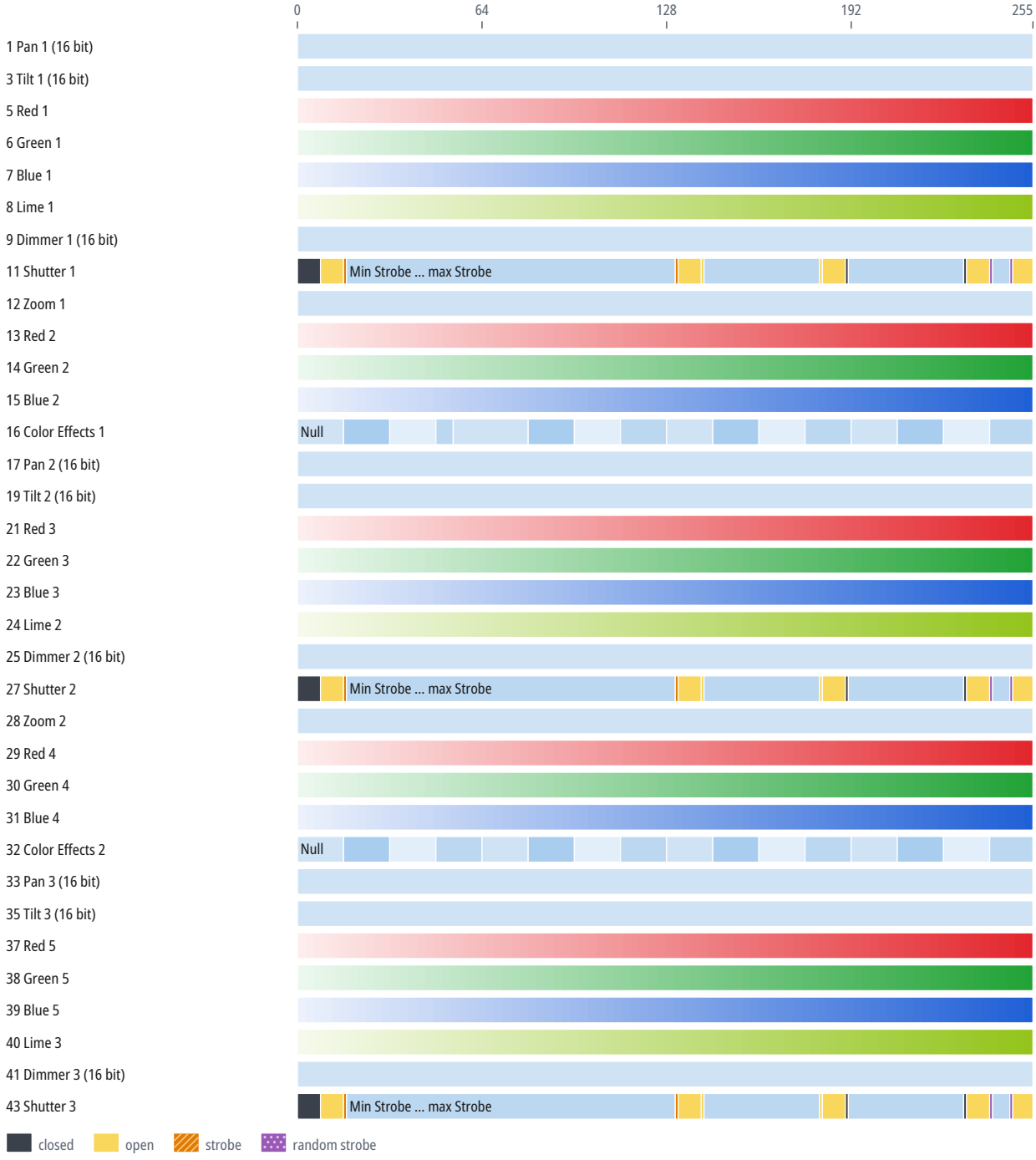
CH	Function	DMX	Description
73	Shutter 6 (continued)	240	Min Strobe Rand
		241–246	Min Strobe Rand ... max Strobe Rand
		247	Max Strobe Rand
		248–255	Open 5
74	PT Speed	0–255	
75	Function		Same as CH 71 in the mode “Mode 2 71 DMX” (p. 22)

Mode 4 85 MDX

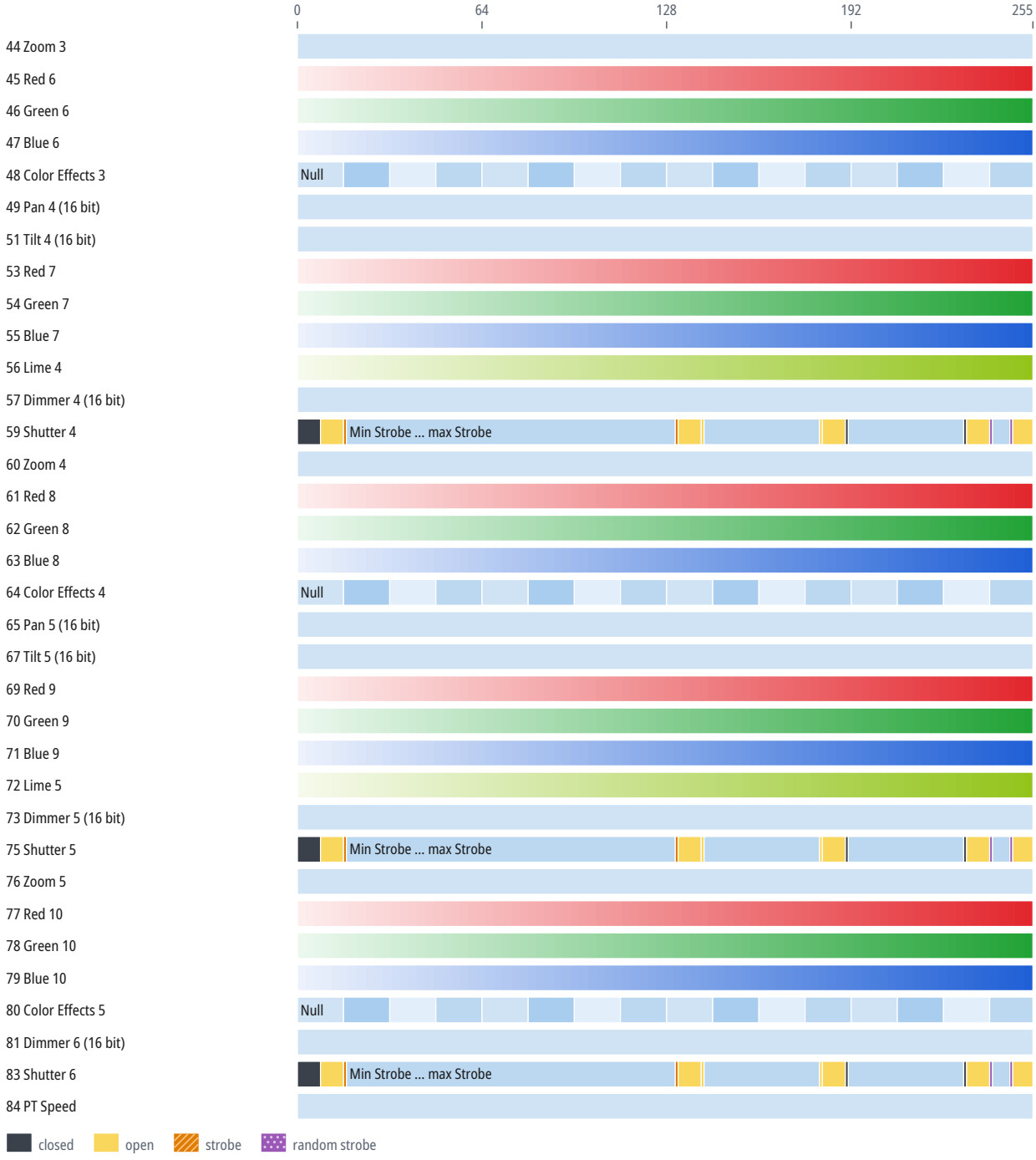
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 9 Dimmer 1 above 0; CH 11 Shutter 1 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 25 Dimmer 2 above 0; CH 27 Shutter 2 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 41 Dimmer 3 above 0; CH 43 Shutter 3 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 57 Dimmer 4 above 0; CH 59 Shutter 4 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 73 Dimmer 5 above 0; CH 75 Shutter 5 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255; CH 81 Dimmer 6 above 0; CH 83 Shutter 6 at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255. The GDTF file gives these values for a console's Highlight function: CH 5 Red 1 255, CH 6 Green 1 255, CH 7 Blue 1 255, CH 9 Dimmer 1 255, CH 11 Shutter 1 255, CH 13 Red 2 255, CH 14 Green 2 255, CH 15 Blue 2 255, CH 21 Red 3 255, CH 22 Green 3 255, CH 23 Blue 3 255, CH 25 Dimmer 2 255, CH 27 Shutter 2 255, CH 29 Red 4 255, CH 30 Green 4 255, CH 31 Blue 4 255, CH 37 Red 5 255, CH 38 Green 5 255, CH 39 Blue 5 255, CH 41 Dimmer 3 255, CH 43 Shutter 3 255, CH 45 Red 6 255, CH 46 Green 6 255, CH 47 Blue 6 255, CH 53 Red 7 255, CH 54 Green 7 255, CH 55 Blue 7 255, CH 57 Dimmer 4 255, CH 59 Shutter 4 255, CH 61 Red 8 255, CH 62 Green 8 255, CH 63 Blue 8 255, CH 69 Red 9 255, CH 70 Green 9 255, CH 71 Blue 9 255, CH 73 Dimmer 5 255, CH 75 Shutter 5 255, CH 77 Red 10 255, CH 78 Green 10 255, CH 79 Blue 10 255, CH 81 Dimmer 6 255, CH 83 Shutter 6 255.

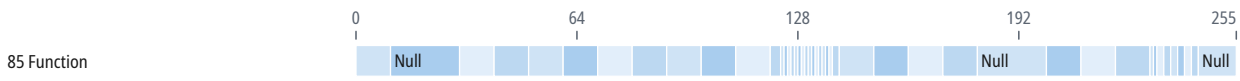
Channel functions at a glance



Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan 1	0–255	59°
2	Pan 1 Fine	0–255	Fine adjustment of CH 1
3	Tilt 1	0–255	221°

CH	Function	DMX	Description
4	Tilt 1 Fine	0–255	Fine adjustment of CH 3
5	Red 1	0–255	
6	Green 1	0–255	
7	Blue 1	0–255	
8	Lime 1	0–255	
9	Dimmer 1	0–255	
10	Dimmer 1 Fine	0–255	Fine adjustment of CH 9
11	Shutter 1		Same as CH 38 in the mode “Mode 1 41DMX 1” (p. 14)
12	Zoom 1	0–255	35–3°
13	Red 2	0–255	
14	Green 2	0–255	
15	Blue 2	0–255	
16	Color Effects 1		Same as CH 13 in the mode “Mode 2 71 DMX” (p. 18)
17	Pan 2	0–255	59°
18	Pan 2 Fine	0–255	Fine adjustment of CH 17
19	Tilt 2	0–255	221°
20	Tilt 2 Fine	0–255	Fine adjustment of CH 19
21	Red 3	0–255	
22	Green 3	0–255	
23	Blue 3	0–255	
24	Lime 2	0–255	
25	Dimmer 2	0–255	
26	Dimmer 2 Fine	0–255	Fine adjustment of CH 25
27	Shutter 2		Same as CH 39 in the mode “Mode 1 41DMX 1” (p. 15)
28	Zoom 2	0–255	35–3°
29	Red 4	0–255	
30	Green 4	0–255	
31	Blue 4	0–255	
32	Color Effects 2		Same as CH 26 in the mode “Mode 2 71 DMX” (p. 19)
33	Pan 3	0–255	59°
34	Pan 3 Fine	0–255	Fine adjustment of CH 33
35	Tilt 3	0–255	221°
36	Tilt 3 Fine	0–255	Fine adjustment of CH 35
37	Red 5	0–255	
38	Green 5	0–255	
39	Blue 5	0–255	
40	Lime 3	0–255	
41	Dimmer 3	0–255	
42	Dimmer 3 Fine	0–255	Fine adjustment of CH 41
43	Shutter 3		Same as CH 37 in the mode “Mode 3 75 DMX” (p. 26)
44	Zoom 3	0–255	35–3°
45	Red 6	0–255	

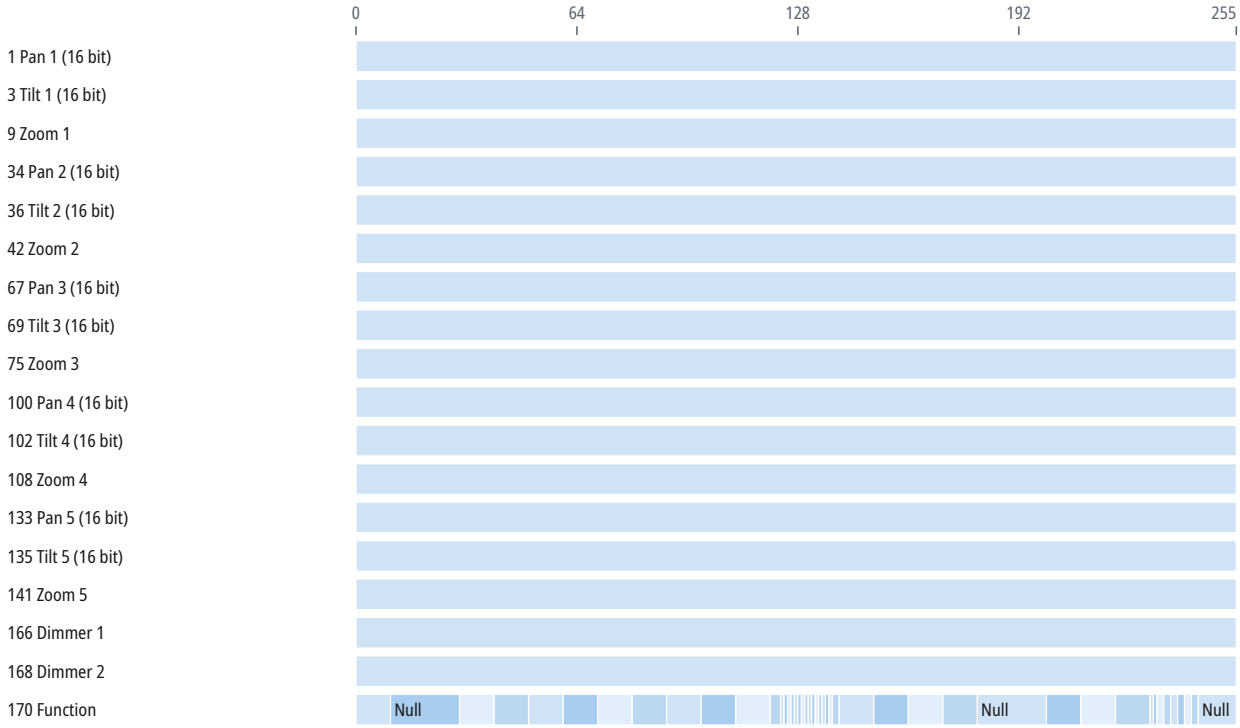
CH	Function	DMX	Description
46	Green 6	0–255	
47	Blue 6	0–255	
48	Color Effects 3		Same as CH 39 in the mode “Mode 2 71 DMX” (p. 20)
49	Pan 4	0–255	59°
50	Pan 4 Fine	0–255	Fine adjustment of CH 49
51	Tilt 4	0–255	221°
52	Tilt 4 Fine	0–255	Fine adjustment of CH 51
53	Red 7	0–255	
54	Green 7	0–255	
55	Blue 7	0–255	
56	Lime 4	0–255	
57	Dimmer 4	0–255	
58	Dimmer 4 Fine	0–255	Fine adjustment of CH 57
59	Shutter 4		Same as CH 51 in the mode “Mode 3 75 DMX” (p. 27)
60	Zoom 4	0–255	35–3°
61	Red 8	0–255	
62	Green 8	0–255	
63	Blue 8	0–255	
64	Color Effects 4		Same as CH 52 in the mode “Mode 2 71 DMX” (p. 20)
65	Pan 5	0–255	59°
66	Pan 5 Fine	0–255	Fine adjustment of CH 65
67	Tilt 5	0–255	221°
68	Tilt 5 Fine	0–255	Fine adjustment of CH 67
69	Red 9	0–255	
70	Green 9	0–255	
71	Blue 9	0–255	
72	Lime 5	0–255	
73	Dimmer 5	0–255	
74	Dimmer 5 Fine	0–255	Fine adjustment of CH 73
75	Shutter 5		Same as CH 65 in the mode “Mode 3 75 DMX” (p. 28)
76	Zoom 5	0–255	35–3°
77	Red 10	0–255	
78	Green 10	0–255	
79	Blue 10	0–255	
80	Color Effects 5		Same as CH 65 in the mode “Mode 2 71 DMX” (p. 21)
81	Dimmer 6	0–255	
82	Dimmer 6 Fine	0–255	Fine adjustment of CH 81
83	Shutter 6		Same as CH 73 in the mode “Mode 3 75 DMX” (p. 28)
84	PT Speed	0–255	
85	Function		Same as CH 71 in the mode “Mode 2 71 DMX” (p. 22)

Mode 5 170DMX

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 166 Dimmer 1 above 0; CH 168 Dimmer 2 above 0; CH 171 Shutter at 8–15 “Open” or 132–139 or 182–189 or 232–239 or 248–255 (the same in each of the 45 cells). The GDTF file gives these values for a console's Highlight function: CH 5 Red 1 255, CH 6 Green 1 255, CH 7 Blue 1 255, CH 10 Red 255 (the same in each of the 8 cells), CH 11 Green 255 (the same in each of the 8 cells), CH 12 Blue 255 (the same in each of the 8 cells), CH 38 Red 10 255, CH 39 Green 10 255, CH 40 Blue 10 255, CH 43 Red 255 (the same in each of the 8 cells), CH 44 Green 255 (the same in each of the 8 cells), CH 45 Blue 255 (the same in each of the 8 cells), CH 71 Red 19 255, CH 72 Green 19 255, CH 73 Blue 19 255, CH 76 Red 255 (the same in each of the 8 cells), CH 77 Green 255 (the same in each of the 8 cells), CH 78 Blue 255 (the same in each of the 8 cells), CH 104 Red 28 255, CH 105 Green 28 255, CH 106 Blue 28 255, CH 109 Red 255 (the same in each of the 8 cells), CH 110 Green 255 (the same in each of the 8 cells), CH 111 Blue 255 (the same in each of the 8 cells), CH 137 Red 37 255, CH 138 Green 37 255, CH 139 Blue 37 255, CH 142 Red 255 (the same in each of the 8 cells), CH 143 Green 255 (the same in each of the 8 cells), CH 144 Blue 255 (the same in each of the 8 cells), CH 166 Dimmer 1 255, CH 168 Dimmer 2 255, CH 171 Shutter 255 (the same in each of the 45 cells).

Channel functions at a glance



CH	Function	DMX	Description
1	Pan 1	0–255	59°
2	Pan 1 Fine	0–255	Fine adjustment of CH 1
3	Tilt 1	0–255	221°
4	Tilt 1 Fine	0–255	Fine adjustment of CH 3
5	Red 1	0–255	
6	Green 1	0–255	
7	Blue 1	0–255	

CH	Function	DMX	Description
8	Lime 1	0–255	
9	Zoom 1	0–255	35–3°
10	Red 2	0–255	
11	Green 2	0–255	
12	Blue 2	0–255	
34	Pan 2	0–255	59°
35	Pan 2 Fine	0–255	Fine adjustment of CH 34
36	Tilt 2	0–255	221°
37	Tilt 2 Fine	0–255	Fine adjustment of CH 36
38	Red 10	0–255	
39	Green 10	0–255	
40	Blue 10	0–255	
41	Lime 2	0–255	
42	Zoom 2	0–255	35–3°
43	Red 11	0–255	
44	Green 11	0–255	
45	Blue 11	0–255	
67	Pan 3	0–255	59°
68	Pan 3 Fine	0–255	Fine adjustment of CH 67
69	Tilt 3	0–255	221°
70	Tilt 3 Fine	0–255	Fine adjustment of CH 69
71	Red 19	0–255	
72	Green 19	0–255	
73	Blue 19	0–255	
74	Lime 3	0–255	
75	Zoom 3	0–255	35–3°
76	Red 20	0–255	
77	Green 20	0–255	
78	Blue 20	0–255	
100	Pan 4	0–255	59°
101	Pan 4 Fine	0–255	Fine adjustment of CH 100
102	Tilt 4	0–255	221°
103	Tilt 4 Fine	0–255	Fine adjustment of CH 102
104	Red 28	0–255	
105	Green 28	0–255	
106	Blue 28	0–255	
107	Lime 4	0–255	
108	Zoom 4	0–255	35–3°
109	Red 29	0–255	
110	Green 29	0–255	
111	Blue 29	0–255	
133	Pan 5	0–255	59°

CH	Function	DMX	Description
134	Pan 5 Fine	0–255	Fine adjustment of CH 133
135	Tilt 5	0–255	221°
136	Tilt 5 Fine	0–255	Fine adjustment of CH 135
137	Red 37	0–255	
138	Green 37	0–255	
139	Blue 37	0–255	
140	Lime 5	0–255	
141	Zoom 5	0–255	35–3°
142	Red 38	0–255	
143	Green 38	0–255	
144	Blue 38	0–255	
166	Dimmer 1	0–255	
168	Dimmer 2	0–255	
170	Function		Same as CH 71 in the mode “Mode 2 71 DMX” (p. 22)
171	Shutter 2 1	0–7	Closed
		8–15	Open
		16	Min Strobe
		17–130	Min Strobe ... max Strobe
		131	Max Strobe
		132–139	Open 2
		140	Min Pulse Open
		141–180	Min Pulse Open ... max Pulse Open
		181	Max Pulse Open
		182–189	Open 3
		190	Min Pulse Close
		191–230	Min Pulse Close ... max Pulse Close
		231	Max Pulse Close
		232–239	Open 4
		240	Min Strobe Rand
		241–246	Min Strobe Rand ... max Strobe Rand
		247	Max Strobe Rand
		248–255	Open 5

CH 10–33: 8 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 10–12); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	10	11	12	2	13	14	15	3	16	17	18
4	19	20	21	5	22	23	24	6	25	26	27
7	28	29	30	8	31	32	33				

CH 43–66: 8 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 43–45); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	43	44	45	2	46	47	48	3	49	50	51
4	52	53	54	5	55	56	57	6	58	59	60
7	61	62	63	8	64	65	66				

CH 76–99: 8 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 76–78); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	76	77	78	2	79	80	81	3	82	83	84
4	85	86	87	5	88	89	90	6	91	92	93
7	94	95	96	8	97	98	99				

CH 109–132: 8 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 109–111); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	109	110	111	2	112	113	114	3	115	116	117
4	118	119	120	5	121	122	123	6	124	125	126
7	127	128	129	8	130	131	132				

CH 142–165: 8 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 142–144); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	142	143	144	2	145	146	147	3	148	149	150
4	151	152	153	5	154	155	156	6	157	158	159
7	160	161	162	8	163	164	165				

CH 171–331: 45 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 171); the table below gives each cell's channel numbers.

Cell	Shutter	Cell	Shutter	Cell	Shutter	Cell	Shutter	Cell	Shutter	Cell	Shutter
1	171	2	178	3	181	4	184	5	187	6	190
7	193	8	196	9	199	10	204	11	211	12	214
13	217	14	220	15	223	16	226	17	229	18	232
19	237	20	244	21	247	22	250	23	253	24	256
25	259	26	262	27	265	28	270	29	277	30	280
31	283	32	286	33	289	34	292	35	295	36	298
37	303	38	310	39	313	40	316	41	319	42	322
43	325	44	328	45	331						

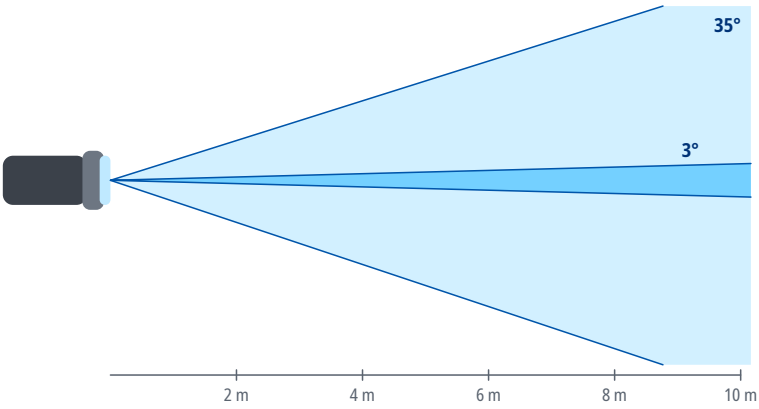
10 Technical specifications

Parameter	Value
Light source	LED
Zoom	3–35°
Pan	59°
Tilt	221°
Weight	29 kg
Operating temperature	-10 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	2500–8000 K
Strobe frequency	0.9–20 Hz

Spot diameter



Distance	Ø 3°	Ø 35°
2 m	0.1 m	1.3 m
4 m	0.21 m	2.5 m
6 m	0.31 m	3.8 m
8 m	0.42 m	5 m
10 m	0.52 m	6.3 m
15 m	0.79 m	9.5 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.