DMX REFERENCE

Cluster S2

ROXX



Manufacturer	ROXX
GDTF file	ROXX_Cluster_S2_127028.gdtf
GDTF revision	RX_C_02022026, Uploaded to GDTF Share. · 2026-02-02
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1 About this manual

This document describes the Cluster S2 by ROXX. It was compiled from the GDTF file ROXX_Cluster_S2_127028.gdtf from the GDTF-Share library.

File revision: “RX_C_02022026, Uploaded to GDTF Share.”.

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 ROXX; 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	1,250 W
Weight	12.6 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
15CH Simple Mode	15	34	1, 16, 31, 46, ...
39CH Easy Mode	39	13	1, 40, 79, 118, ...
71CH Standard Mode	71	7	1, 72, 143, 214, ...
112CH Pure Mode 8 Bit	112	4	1, 113, 225, 337
209CH Pure Extended Mode 16 Bit	209	2	1, 210
178CH Full Access Mode	178	2	1, 179
275CH Full Access Extended Mode	275	1	1

No light? Check these channels

- 15CH Simple Mode: CH 3 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 6 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 9 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”
- 39CH Easy Mode: CH 3 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 12 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 23 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”
- 71CH Standard Mode: CH 3 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 12 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 21 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 30 Shutter 4 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 39 Shutter 5 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 54 Shutter 6 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”
- 112CH Pure Mode 8 Bit: CH 2 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 16 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 30 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 44 Shutter 4 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 58 Shutter 5 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 72 Shutter 6 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 92 Shutter 7 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”
- 209CH Pure Extended Mode 16 Bit: CH 3 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 29 Shutter 2 at

20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 55 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 81 Shutter 4 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 107 Shutter 5 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 133 Shutter 6 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 171 Shutter 7 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”

- 178CH Full Access Mode: CH 14 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 34 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 54 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 74 Shutter 4 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 94 Shutter 5 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 108 Shutter 6 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 138 Shutter 7 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”
- 275CH Full Access Extended Mode: CH 27 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 59 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 91 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 123 Shutter 4 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 155 Shutter 5 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 169 Shutter 6 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 217 Shutter 7 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”



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: 90–285 V, 50/60 Hz. Before connecting, make sure that the mains voltage matches this value and the value on the rating plate of the device.
- Do not connect the device to a dimmer or to a dimmed circuit.
- Use only the original power cable or a cable with identical ratings. Protect the cable from damage, do not run it over sharp edges, and never unplug it by pulling on the cable.
- When connecting several devices to one circuit, do not exceed its permitted load.
- Do not touch the device with wet hands.

⚠ WARNING

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

⚠ CAUTION

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

⚠ **CAUTION**

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

4 Installation

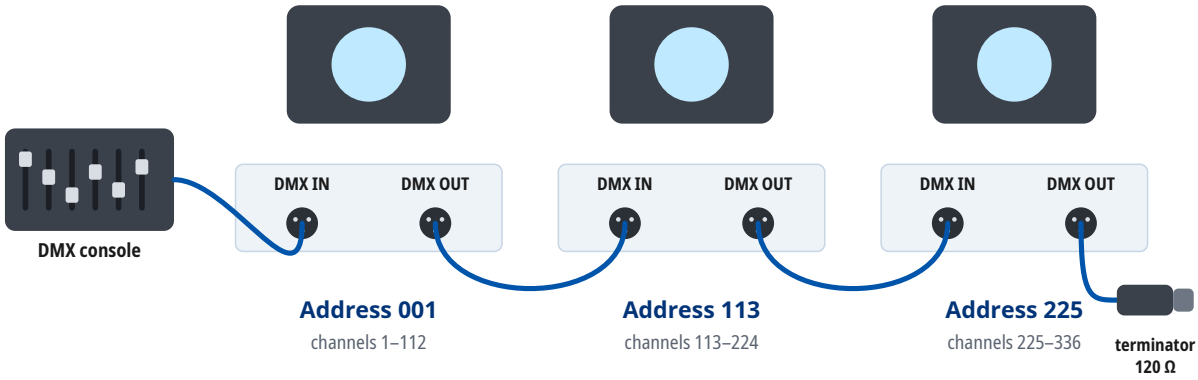
⚠ **WARNING**

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 12.6 kg.
- Use suitable mounting hardware (for example truss clamps) and tighten all screw connections properly.
- Always secure the suspended device against falling with a safety cable of adequate load capacity, routed through a fixed point of the device and around the supporting structure.
- During installation and removal, keep people out of the area below the work position.
- Regularly inspect the fixings and the safety cable for damage, corrosion and loosening.

5 Connections

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

DMX line



Mode 112CH Pure Mode 8 Bit: every unit occupies 112 channels from its address. At most 32 units on one line; for more units or longer runs use a DMX splitter. A 120 Ω terminator closes the last DMX OUT.

6 Operation

Setting the DMX address

- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “275CH Full Access Extended Mode”: 275.
- 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.
- The device supports RDM (Remote Device Management), two-way communication with the controller over the DMX line.

7 Functions at a glance

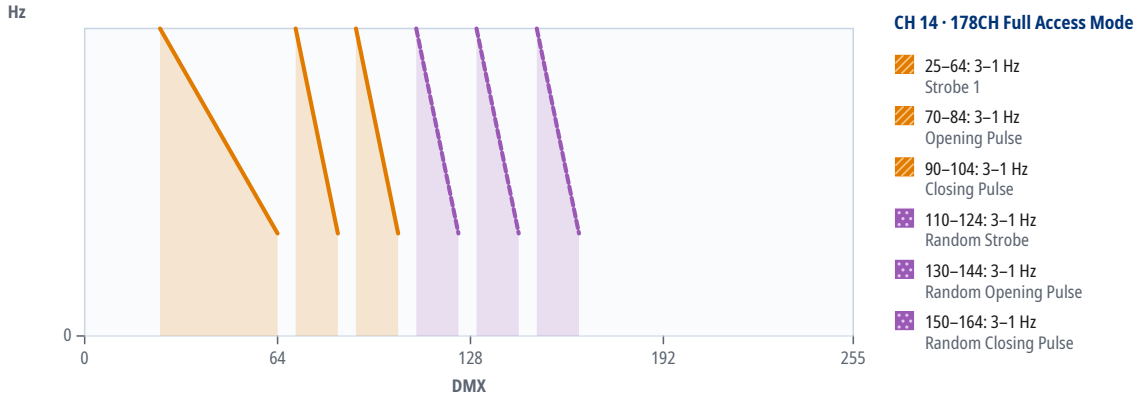
Functions in each DMX mode

	15CH Simple Mode 15 channels	39CH Easy Mode 39 channels	71CH Standard Mode 71 channels	112CH Pure Mode 8 Bit 112 channels	209CH Pure Extended Mode 16 Bit 209 channels	178CH Full Access Mode 178 channels	275CH Full Access Extended Mode 275 channels
Dimmer	**1, 2, 5, 8**	**1, 2, 11, 22**	7 channels (1–53)	71 channels (1–82)	91 channels (1–131)	83 channels (1–104)	91 channels (1–153)
Dimmer resolution	8 bit	8 bit	8 bit	8 bit	16 bit	8 bit	16 bit
Shutter / strobe	**3, 4, 6, 7, 9, 10**	3, 4, 12, 13, 23, 24	12 channels (3–55)	14 channels (2–93)	14 channels (3–172)	14 channels (14–139)	14 channels (27–218)
Color mixing	**11–13**	**25–27**	**56–58**	74–114, 118–120,	54 channels (135–207)	51 channels (120–182)	57 channels (181–273)
Color temperature	**14**	**28, 38**	**59**			**119, 149, 177**	**180, 228, 274**
Color wheel			**60**				
Effects / macros			**60, 61**				
Pixel control	✓	✓	✓	12 + 12 + 12 + 12 + 12 cells	12 + 12 + 12 + 12 + 12 cells	13 + 12 + 12 + 12 + 12 cells	13 + 12 + 12 + 12 + 12 cells

Color wheel

1 Red
2 LEE 019 Fire
3 LEE 027 Medium Red
4 LEE 106 Primary Red
5 LEE 020 Medium Amber
6 LEE 022 Dark Amber
7 LEE 104 Deep Amber
8 LEE 105 Orange
9 LEE 135 Deep Golden Amber
10 LEE 101 Yellow
11 Green
12 LEE 088 Lime Green
13 LEE 089 Moss Green
14 LEE 121 Green
15 LEE 139 Primary Green
16 LEE 738 JAS Green
17 LEE 323 Jade
18 Blue
19 LEE 068 Sky Blue
20 LEE 071 Tokyo Blue
21 LEE 118 Light Blue
22 LEE 131 Marine Blue
23 LEE 132 Medium Blue
24 LEE 181 Congo Blue
25 LEE 716 Mikkel Blue
26 LEE 002 Rose Pink
27 LEE 036 Medium Pink
28 LEE 052 Light Lavender
29 LEE 058 Lavender
30 LEE 113 Magenta
31 LEE 126 Mauve
32 LEE 127 Smokey Pink
33 LEE 343 Special Medium Lavender
34 LEE 707 Ultimate Violet
35 LEE 795 Magical Magenta
36 LEE 798 Chrysalis Pink
37 LEE 799 Special KH Lavender
38 open

Strobe rate



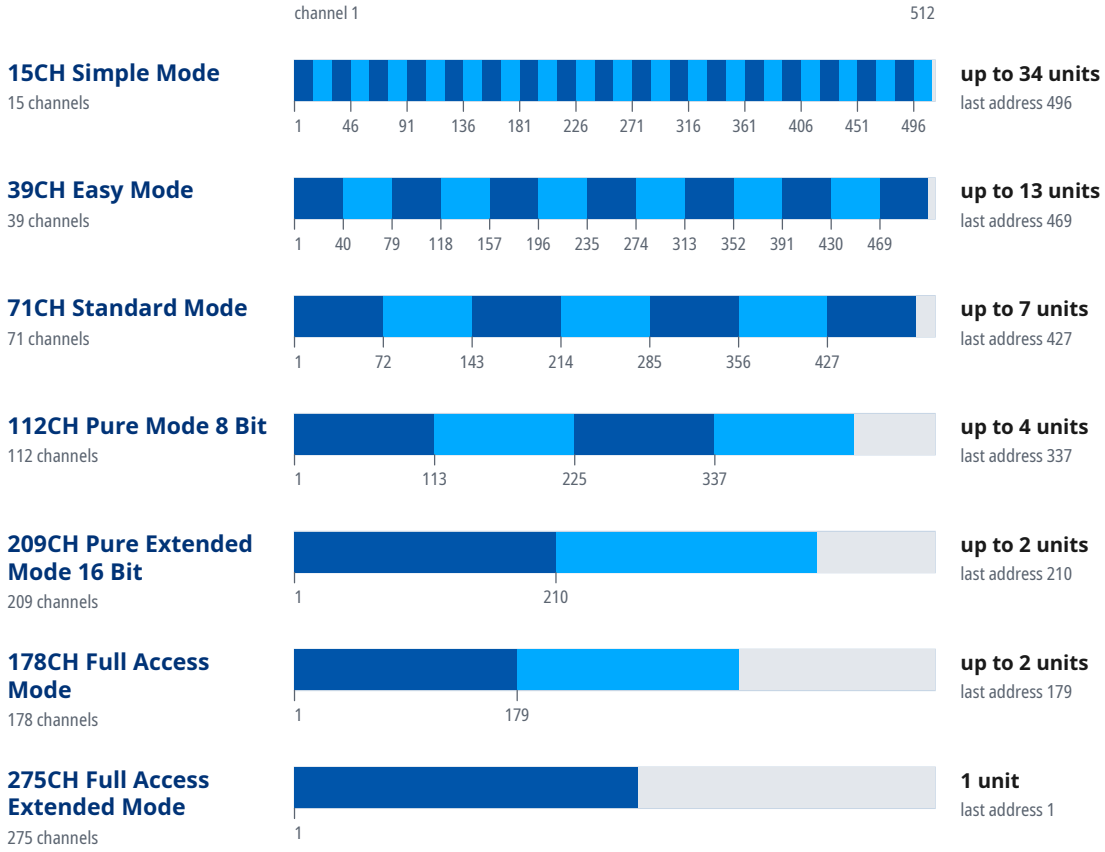
Cells (pixels)

1 CH 1	2 CH 1	4 CH 3	3 CH 2	7 CH 5	5 CH 3	10 CH 7	6 CH 4	13 CH 9	8 CH 5	16 CH 11	9 CH 6
19 CH 13	11 CH 7	20 CH 15	12 CH 8	21 CH 17	14 CH 9	22 CH 19	15 CH 10	23 CH 21	17 CH 11	24 CH 23	18 CH 12

24 cells in one row, left to right as the GDTF file places them (seen from above), wrapped after 12; numbered by their first DMX channel (CH) in the mode “178CH Full Access Mode”.

8 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “275CH Full Access Extended Mode”

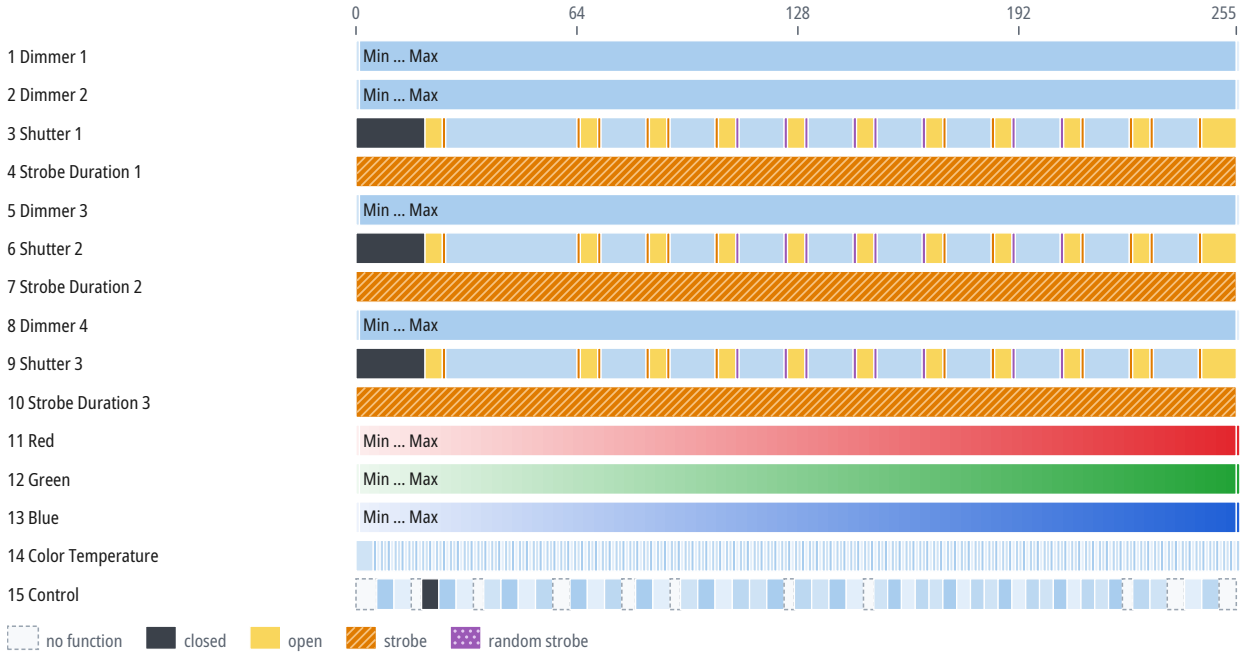
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	U6 · 1	11	U11 · 1	16	U16 · 1
2	U2 · 1	7	U7 · 1	12	U12 · 1	17	U17 · 1
3	U3 · 1	8	U8 · 1	13	U13 · 1	18	U18 · 1
4	U4 · 1	9	U9 · 1	14	U14 · 1	19	U19 · 1
5	U5 · 1	10	U10 · 1	15	U15 · 1	20	U20 · 1

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 15CH Simple Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 3 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 6 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 9 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Dimmer 2 255, CH 5 Dimmer 3 255, CH 8 Dimmer 4 255, CH 11 Red 255, CH 12 Green 255, CH 13 Blue 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1	0	Min
		1–254	Min ... Max
		255	Max
2	Dimmer 2	0	Min
		1–254	Min ... Max
		255	Max
3	Shutter 1	0–19	Shutter Close
		20–24	Shutter Open
		25	Fast Strobe (3–1 Hz)
		26–63	Fast Strobe ... Slow Strobe
		64	Slow Strobe
		65–69	Open
		70	Opening Pulse: Fast Pulse (3–1 Hz)
		71–83	Opening Pulse: Fast Pulse ... Slow Pulse
		84	Opening Pulse: Slow Pulse
		85–89	Open
		90	Closing Pulse: Fast Pulse (3–1 Hz)

CH	Function	DMX	Description
3	Shutter 1 (continued)	91–103	Closing Pulse: Fast Pulse ... Slow Pulse
		104	Closing Pulse: Slow Pulse
		105–109	Open
		110	Random Strobe: Fast Strobe (3–1 Hz)
		111–123	Random Strobe: Fast Strobe ... Slow Strobe
		124	Random Strobe: Slow Strobe
		125–129	Open
		130	Random Opening Pulse: Fast Pulse (3–1 Hz)
		131–143	Random Opening Pulse: Fast Pulse ... Slow Pulse
		144	Random Opening Pulse: Slow Pulse
		145–149	Open
		150	Random Closing Pulse: Fast Pulse (3–1 Hz)
		151–163	Random Closing Pulse: Fast Pulse ... Slow Pulse
		164	Random Closing Pulse: Slow Pulse
		165–169	Open
		170	Burst Pulse: Fast Pulse (3–1 Hz)
		171–183	Burst Pulse: Fast Pulse ... Slow Pulse
		184	Burst Pulse: Slow Pulse
		185–189	Open
		190	Random Burst Pulse: Fast Pulse (3–1 Hz)
		191–203	Random Burst Pulse: Fast Pulse ... Slow Pulse
		204	Random Burst Pulse: Slow Pulse
		205–209	Open
		210	Fast Sin Wave (3–1 Hz)
		211–223	Fast Sin Wave ... Slow Sin Wave
		224	Slow Sin Wave
		225–229	Open
		230	Fast Burst
		231–243	Fast Burst ... Slow Burst
		244	Slow Burst
		245–255	Open
4	Strobe Duration 1	0–255	
5	Dimmer 3	0	Min
		1–254	Min ... Max
		255	Max
6	Shutter 2	0–19	Shutter Close
		20–24	Shutter Open
		25	Fast Strobe (3–1 Hz)
		26–63	Fast Strobe ... Slow Strobe
		64	Slow Strobe
		65–69	Open
		70	Opening Pulse: Fast Pulse (3–1 Hz)

CH	Function	DMX	Description
6	Shutter 2 (continued)	71–83	Opening Pulse: Fast Pulse ... Slow Pulse
		84	Opening Pulse: Slow Pulse
		85–89	Open
		90	Closing Pulse: Fast Pulse (3–1 Hz)
		91–103	Closing Pulse: Fast Pulse ... Slow Pulse
		104	Closing Pulse: Slow Pulse
		105–109	Open
		110	Random Strobe: Fast Strobe (3–1 Hz)
		111–123	Random Strobe: Fast Strobe ... Slow Strobe
		124	Random Strobe: Slow Strobe
		125–129	Open
		130	Random Opening Pulse: Fast Pulse (3–1 Hz)
		131–143	Random Opening Pulse: Fast Pulse ... Slow Pulse
		144	Random Opening Pulse: Slow Pulse
		145–149	Open
		150	Random Closing Pulse: Fast Pulse (3–1 Hz)
		151–163	Random Closing Pulse: Fast Pulse ... Slow Pulse
		164	Random Closing Pulse: Slow Pulse
		165–169	Open
		170	Burst Pulse: Fast Pulse (3–1 Hz)
		171–183	Burst Pulse: Fast Pulse ... Slow Pulse
		184	Burst Pulse: Slow Pulse
		185–189	Open
		190	Random Burst Pulse: Fast Pulse (3–1 Hz)
		191–203	Random Burst Pulse: Fast Pulse ... Slow Pulse
		204	Random Burst Pulse: Slow Pulse
		205–209	Open
		210	Fast Sin Wave (3–1 Hz)
		211–223	Fast Sin Wave ... Slow Sin Wave
		224	Slow Sin Wave
		225–229	Open
		230	Fast Burst
		231–243	Fast Burst ... Slow Burst
		244	Slow Burst
		245–255	Open
7	Strobe Duration 2	0–255	
8	Dimmer 4	0	Min
		1–254	Min ... Max
		255	Max
9	Shutter 3	0–19	Shutter Close
		20–24	Shutter Open
		25	Fast Strobe (3–1 Hz)

CH	Function	DMX	Description
9	Shutter 3 (continued)	26–63	Fast Strobe ... Slow Strobe
		64	Slow Strobe
		65–69	Open
		70	Opening Pulse: Fast Pulse (3–1 Hz)
		71–83	Opening Pulse: Fast Pulse ... Slow Pulse
		84	Opening Pulse: Slow Pulse
		85–89	Open
		90	Closing Pulse: Fast Pulse (3–1 Hz)
		91–103	Closing Pulse: Fast Pulse ... Slow Pulse
		104	Closing Pulse: Slow Pulse
		105–109	Open
		110	Random Strobe: Fast Strobe (3–1 Hz)
		111–123	Random Strobe: Fast Strobe ... Slow Strobe
		124	Random Strobe: Slow Strobe
		125–129	Open
		130	Random Opening Pulse: Fast Pulse (3–1 Hz)
		131–143	Random Opening Pulse: Fast Pulse ... Slow Pulse
		144	Random Opening Pulse: Slow Pulse
		145–149	Open
		150	Random Closing Pulse: Fast Pulse (3–1 Hz)
		151–163	Random Closing Pulse: Fast Pulse ... Slow Pulse
		164	Random Closing Pulse: Slow Pulse
		165–169	Open
		170	Burst Pulse: Fast Pulse (3–1 Hz)
		171–183	Burst Pulse: Fast Pulse ... Slow Pulse
		184	Burst Pulse: Slow Pulse
		185–189	Open
		190	Random Burst Pulse: Fast Pulse (3–1 Hz)
		191–203	Random Burst Pulse: Fast Pulse ... Slow Pulse
		204	Random Burst Pulse: Slow Pulse
		205–209	Open
		210	Fast Sin Wave (3–1 Hz)
		211–223	Fast Sin Wave ... Slow Sin Wave
		224	Slow Sin Wave
		225–229	Open
		230	Fast Burst
		231–243	Fast Burst ... Slow Burst
		244	Slow Burst
		245–255	Open
10	Strobe Duration 3	0–255	
11	Red	0	Min
		1–254	Min ... Max

CH	Function	DMX	Description
11	Red (continued)	255	Max
12	Green	0	Min
		1–254	Min … Max
		255	Max
13	Blue	0	Min
		1–254	Min … Max
		255	Max
14	Color Temperature	0–4	7000 K
		5	2000K
		6	2020K
		7	2041K
		8	2061K
		9	2081K
		10	2102K
		11	2122K
		12	2143K
		13	2163K
		14	2183K
		15	2204K
		16	2224K
		17	2244K
		18	2265K
		19	2285K
		20	2305K
		21	2326K
		22	2346K
		23	2367K
		24	2387K
		25	2407K
		26	2428K
		27	2448K
		28	2468K
		29	2489K
		30	2509K
		31	2529K
		32	2550K
		33	2570K
		34	2590K
		35	2611K
		36	2631K
		37	2652K
		38	2672K

CH	Function	DMX	Description
14	Color Temperature (continued)	39	2692K
		40	2713K
		41	2733K
		42	2753K
		43	2774K
		44	2794K
		45	2814K
		46	2835K
		47	2855K
		48	2876K
		49	2896K
		50	2916K
		51	2937K
		52	2957K
		53	2977K
		54	2998K
		55	3018K
		56	3038K
		57	3059K
		58	3079K
		59	3100K
		60	3120K
		61	3140K
		62	3161K
		63	3181K
		64	3201K
		65	3222K
		66	3242K
		67	3262K
		68	3283K
		69	3303K
		70	3324K
		71	3344K
		72	3364K
		73	3385K
		74	3405K
		75	3425K
		76	3446K
		77	3466K
		78	3486K
		79	3507K
		80	3527K

CH	Function	DMX	Description
14	Color Temperature (continued)	81	3548K
		82	3568K
		83	3588K
		84	3609K
		85	3629K
		86	3649K
		87	3670K
		88	3690K
		89	3710K
		90	3731K
		91	3751K
		92	3771K
		93	3792K
		94	3812K
		95	3833K
		96	3853K
		97	3873K
		98	3894K
		99	3914K
		100	3934K
		101	3955K
		102	3975K
		103	3995K
		104	4016K
		105	4036K
		106	4057K
		107	4077K
		108	4097K
		109	4118K
		110	4138K
		111	4158K
		112	4179K
		113	4199K
		114	4219K
		115	4240K
		116	4260K
		117	4281K
		118–119	4301K
		120	4342K
		121	4362K
		122	4382K
		123	4403K

CH	Function	DMX	Description
14	Color Temperature (continued)	124	4423K
		125	4443K
		126	4464K
		127	4484K
		128	4505K
		129	4525K
		130	4545K
		131	4566K
		132	4586K
		133	4606K
		134	4627K
		135	4647K
		136	4667K
		137	4688K
		138	4708K
		139	4729K
		140	4749K
		141	4769K
		142	4790K
		143	4810K
		144	4830K
		145	4851K
		146	4871K
		147	4891K
		148	4912K
		149	4932K
		150	4952K
		151	4973K
		152	4993K
		153	5014K
		154	5034K
		155	5054K
		156	5075K
		157	5095K
		158	5115K
		159	5136K
		160	5156K
		161	5176K
		162	5197K
		163	5217K
		164	5238K
		165	5258K

CH	Function	DMX	Description
14	Color Temperature (continued)	166	5278K
		167	5299K
		168	5319K
		169	5339K
		170	5360K
		171	5380K
		172	5400K
		173	5421K
		174	5441K
		175	5462K
		176	5482K
		177	5502K
		178	5523K
		179	5543K
		180	5563K
		181	5584K
		182	5604K
		183	5624K
		184	5645K
		185	5665K
		186	5686K
		187	5706K
		188	5726K
		189	5747K
		190	5767K
		191	5787K
		192	5808K
		193	5828K
		194	5848K
		195	5869K
		196	5889K
		197	5910K
		198	5930K
		199	5950K
		200	5971K
		201	5991K
		202	6011K
		203	6032K
		204	6052K
		205	6072K
		206	6093K
		207	6113K

CH	Function	DMX	Description
14	Color Temperature (continued)	208	6133K
		209	6154K
		210	6174K
		211	6195K
		212	6215K
		213	6235K
		214	6256K
		215	6276K
		216	6296K
		217	6317K
		218	6337K
		219	6357K
		220	6378K
		221	6398K
		222	6419K
		223	6439K
		224	6459K
		225	6480K
		226	6500K
		227	6621K
		228	6741K
		229	6862K
		230	6983K
		231	7103K
		232	7224K
		233	7345K
		234	7466K
		235	7586K
		236	7707K
		237	7828K
		238	7948K
		239	8069K
		240	8190K
		241	8310K
		242	8431K
		243	8552K
		244	8672K
		245	8793K
		246	8914K
		247	9034K
		248	9155K
		249	9276K

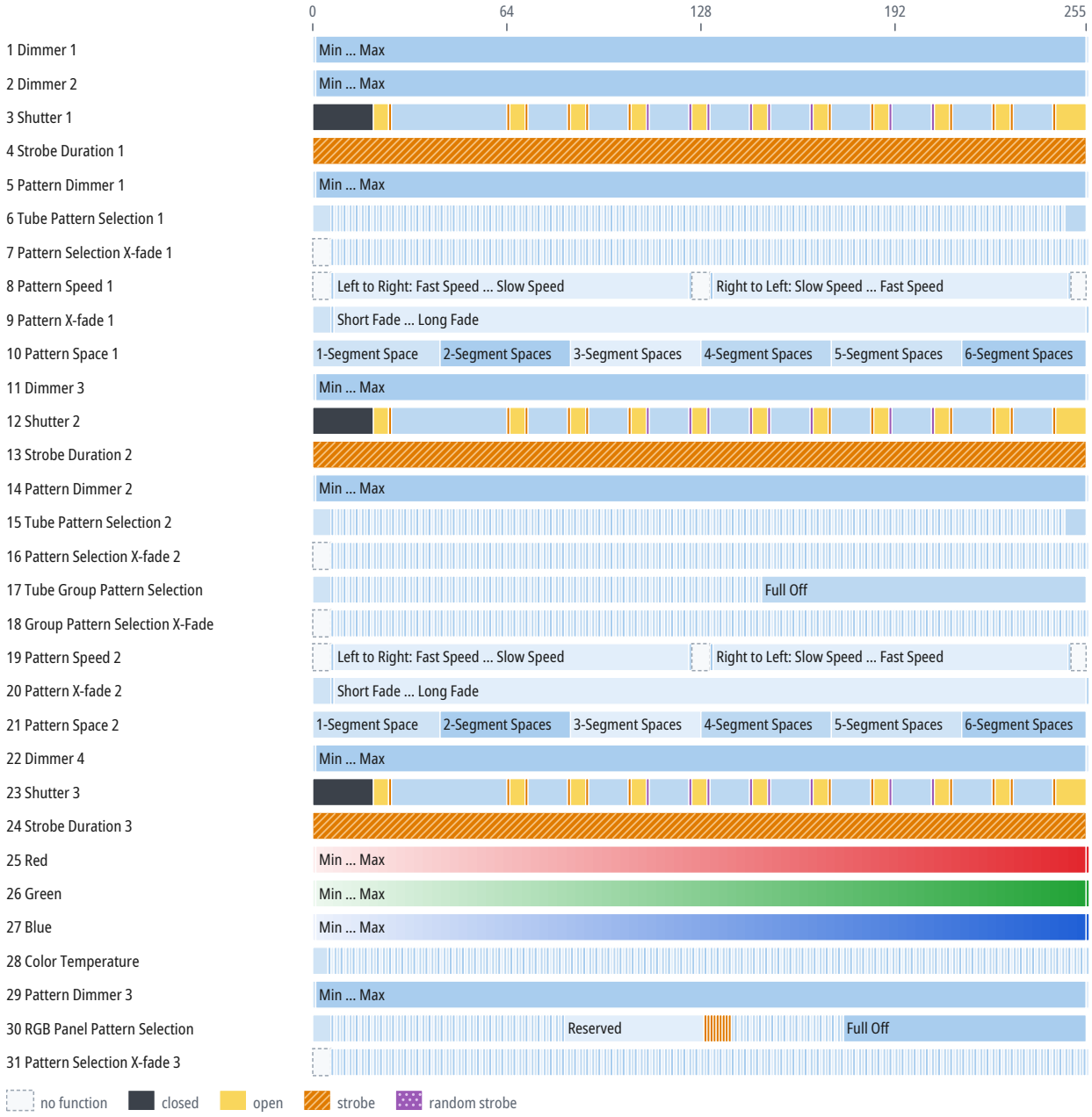
CH	Function	DMX	Description
14	Color Temperature (continued)	250	9397K
		251	9517K
		252	9638K
		253	9759K
		254	9879K
		255	10000K
15	Control	0–5	No Function
		6–10	Display Backlight On
		11–15	Display Backlight Off
		16–18	No Function
		19–23	DMX Fail Blackout
		24–28	DMX Fail Hold
		29–33	DMX Fail Emergency Light
		34–36	No Function
		37–41	Linear Dimmer Curve
		42–46	Exponential DImmer Curve
		47–51	Logarithimic Dimmer Curve
		52–56	S-Curve DImmer Curve
		57–61	No Function
		62–66	Fast Dimmer Response (LED)
		67–71	Medium Dimmer Response
		72–76	Slow Dimmer Response (Halogen)
		77–80	No Function
		81–85	Full Calibration (Colors and CCT)
		86–90	CCT Calibration (RAW Colors)
		91–93	No Function
		94–98	LED Frequency 800Hz
		99–103	LED Frequency 1200Hz
		104–108	LED Frequency 2000Hz
		109–113	LED Frequency 3600Hz
		114–118	LED Frequency 12kHz
		119–123	LED Frequency 25kHz
		124–126	No Function
		127–131	Fan Auto
		132–136	Fan Silent
		137–141	Fan Off
		142–146	Fan High Power
		147–149	No Function
		150–153	Invert RGB Panel 1 Off
		154–157	Invert RGB Panel 1 On
		158–161	Invert RGB Panel 2 Off
		162–165	Invert RGB Panel 2 On

CH	Function	DMX	Description
15	Control (continued)	166–169	Invert Centric Tube Off
		170–173	Invert RGB Panel 1 On
		174–177	Invert Single Tube 1 Off
		178–181	Invert Single Tube 1 On
		182–185	Invert Single Tube 2 Off
		186–189	Invert Single Tube 2 On
		190–193	Invert Single Tube 3 Off
		194–197	Invert Single Tube 3 On
		198–201	Invert Single Tube 4 Off
		202–205	Invert Single Tube 4 On
		206–209	Swap RGB Panels Off
		210–213	Swap RGB Panels On
		214–217	Swap Single Tubes Off
		218–221	Swap Single Tubes On
		222–224	No Function
		225–229	LED Mode - Illumination
		230–234	LED Mode - Boost
		235–239	No Function
		240–244	Factory Reset
		245–249	User Reset
		250–255	No Function

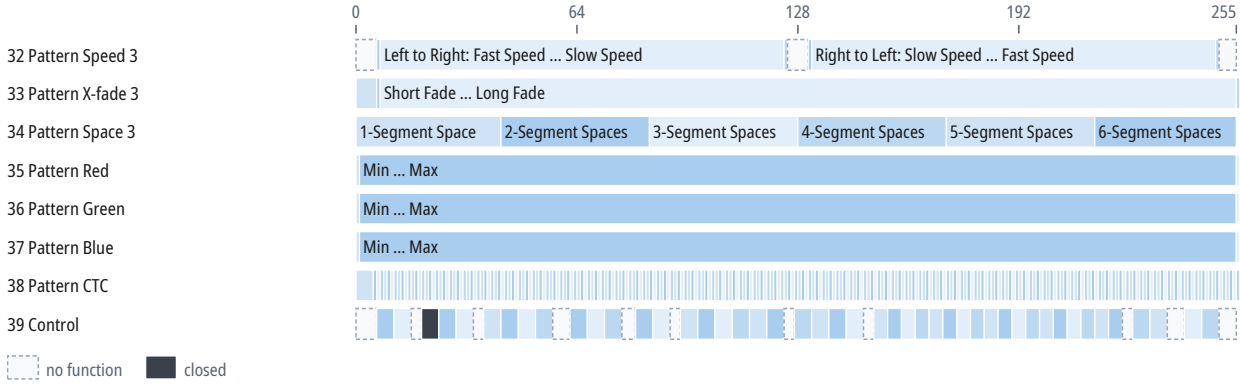
Mode 39CH Easy Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 3 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 12 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 23 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Dimmer 2 255, CH 11 Dimmer 3 255, CH 22 Dimmer 4 255, CH 25 Red 255, CH 26 Green 255, CH 27 Blue 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “15CH Simple Mode” (p. 11)
2	Dimmer 2		Same as CH 2 in the mode “15CH Simple Mode” (p. 11)
3	Shutter 1		Same as CH 3 in the mode “15CH Simple Mode” (p. 11)
4	Strobe Duration 1	0–255	
5	Pattern Dimmer 1	0	Min
		1–254	Min ... Max
		255	Max
6	Tube Pattern Selection 1	0–5	Full On
		6	Move 1 - 1
		7	Move 1 - 2
		8	Move 1 - 3
		9	Move 1 - 4
		10	Move 1 - 5
		11	Move 1 - 6
		12	Move 1 - 7
		13	Move 1 - 8
		14	Move 1 - 9
		15	Move 1 - 10
		16	Move 1 - 11
		17	Move 1 - 12
		18	Move 2 - 1
		19	Move 2 - 2
		20	Move 2 - 3
		21	Move 2 - 4
		22	Move 2 - 5
		23	Move 2 - 6
		24	Move 2 - 7
		25	Move 2 - 8
		26	Move 2 - 9
		27	Move 2 - 10

CH	Function	DMX	Description
6	Tube Pattern Selection 1 (continued)	28	Move 2 - 11
		29	Move 3 - 1
		30	Move 3 - 2
		31	Move 3 - 3
		32	Move 3 - 4
		33	Move 3 - 5
		34	Move 3 - 6
		35	Move 3 - 7
		36	Move 3 - 8
		37	Move 3 - 9
		38	Move 3 - 10
		39	Move 4 - 1
		40	Move 4 - 2
		41	Move 4 - 3
		42	Move 4 - 4
		43	Move 4 - 5
		44	Move 4 - 6
		45	Move 4 - 7
		46	Move 4 - 8
		47	Move 4 - 9
		48	Move 5 - 1
		49	Move 5 - 2
		50	Move 5 - 3
		51	Move 5 - 4
		52	Move 5 - 5
		53	Move 5 - 6
		54	Move 5 - 7
		55	Move 5 - 8
		56	Move 6 - 1
		57	Move 6 - 2
		58	Move 6 - 3
		59	Move 6 - 4
		60	Move 6 - 5
		61	Move 6 - 6
		62	Move 6 - 7
		63	Move 7 - 1
		64	Move 7 - 2
		65	Move 7 - 3
		66	Move 7 - 4
		67	Move 7 - 5
		68	Move 7 - 6
		69	Move 8 - 1

CH	Function	DMX	Description
6	Tube Pattern Selection 1 (continued)	70	Move 8 - 2
		71	Move 8 - 3
		72	Move 8 - 4
		73	Move 8 - 5
		74	Move 9 - 1
		75	Move 9 - 2
		76	Move 9 - 3
		77	Move 9 - 4
		78	Move 10 - 1
		79	Move 10 - 2
		80	Move 10 - 3
		81	Move 11 - 1
		82	Move 11 - 2
		83	2Blocks 1/1 - 1
		84	2Blocks 1/1 - 2
		85	2Blocks 1/1 - 3
		86	2Blocks 1/1 - 4
		87	2Blocks 1/1 - 5
		88	2Blocks 1/1 - 6
		89	2Blocks 1/1 - 7
		90	2Blocks 1/1 - 8
		91	2Blocks 1/1 - 9
		92	2Blocks 1/1 - 10
		93	2Blocks 1/2 - 1
		94	2Blocks 1/2 - 2
		95	2Blocks 1/2 - 3
		96	2Blocks 1/2 - 4
		97	2Blocks 1/2 - 5
		98	2Blocks 1/2 - 6
		99	2Blocks 1/2 - 7
		100	2Blocks 1/2 - 8
		101	2Blocks 1/2 - 9
		102	2Blocks 1/3 - 1
		103	2Blocks 1/3 - 2
		104	2Blocks 1/3 - 3
		105	2Blocks 1/3 - 4
		106	2Blocks 1/3 - 5
		107	2Blocks 1/3 - 6
		108	2Blocks 1/3 - 7
		109	2Blocks 1/3 - 8
		110	2Blocks 1/4 - 1
		111	2Blocks 1/4 - 2

CH	Function	DMX	Description
6	Tube Pattern Selection 1 (continued)	112	2Blocks 1/4 - 3
		113	2Blocks 1/4 - 4
		114	2Blocks 1/4 - 5
		115	2Blocks 1/4 - 6
		116	2Blocks 1/4 - 7
		117	2Blocks 2/1 - 1
		118	2Blocks 2/1 - 2
		119	2Blocks 2/1 - 3
		120	2Blocks 2/1 - 4
		121	2Blocks 2/1 - 5
		122	2Blocks 2/1 - 6
		123	2Blocks 2/1 - 7
		124	2Blocks 2/1 - 8
		125	2Blocks 2/2 - 1
		126	2Blocks 2/2 - 2
		127	2Blocks 2/2 - 3
		128	2Blocks 2/2 - 4
		129	2Blocks 2/2 - 5
		130	2Blocks 2/2 - 6
		131	2Blocks 2/2 - 7
		132	2Blocks 2/3 - 1
		133	2Blocks 2/3 - 2
		134	2Blocks 2/3 - 3
		135	2Blocks 2/3 - 4
		136	2Blocks 2/3 - 5
		137	2Blocks 2/3 - 6
		138	2Blocks 2/4 - 1
		139	2Blocks 2/4 - 2
		140	2Blocks 2/4 - 3
		141	2Blocks 2/4 - 4
		142	2Blocks 2/4 - 5
		143	2Blocks 3/1 - 1
		144	2Blocks 3/1 - 2
		145	2Blocks 3/1 - 3
		146	2Blocks 3/1 - 4
		147	2Blocks 3/1 - 5
		148	2Blocks 3/1 - 6
		149	2Blocks 3/2 - 1
		150	2Blocks 3/2 - 2
		151	2Blocks 3/2 - 3
		152	2Blocks 3/2 - 4
		153	2Blocks 3/2 - 5

CH	Function	DMX	Description
6	Tube Pattern Selection 1 (continued)	154	2Blocks 3/3 - 1
		155	2Blocks 3/3 - 2
		156	2Blocks 3/3 - 3
		157	2Blocks 3/3 - 4
		158	3Blocks 1/1 - 1
		159	3Blocks 1/1 - 2
		160	3Blocks 1/1 - 3
		161	3Blocks 1/1 - 4
		162	3Blocks 1/1 - 5
		163	3Blocks 1/1 - 6
		164	3Blocks 1/1 - 7
		165	3Blocks 1/1 - 8
		166	3Blocks 1/2 - 1
		167	3Blocks 1/2 - 2
		168	3Blocks 1/2 - 3
		169	3Blocks 1/2 - 4
		170	3Blocks 1/2 - 5
		171	3Blocks 1/2 - 6
		172	3Blocks 1/3 - 1
		173	3Blocks 1/3 - 2
		174	3Blocks 1/3 - 3
		175	3Blocks 1/3 - 4
		176	3Blocks 1/4 - 1
		177	3Blocks 1/4 - 2
		178	3Blocks 2/1 - 1
		179	3Blocks 2/1 - 2
		180	3Blocks 2/1 - 3
		181	3Blocks 2/1 - 4
		182	3Blocks 2/1 - 5
		183	3Blocks 2/2 - 1
		184	3Blocks 2/2 - 2
		185	3Blocks 2/2 - 3
		186	3Blocks 3/1 - 1
		187	3Blocks 3/1 - 2
		188	4Blocks 1/1 - 1
		189	4Blocks 1/1 - 2
		190	4Blocks 1/1 - 3
		191	4Blocks 1/1 - 4
		192	4Blocks 1/1 - 5
		193	4Blocks 1/1 - 6
		194	4Blocks 1/2 - 1
		195	4Blocks 1/2 - 2

CH	Function	DMX	Description
6	Tube Pattern Selection 1 (continued)	196	4Blocks 1/2 - 3
		197	4Blocks 2/1 - 1
		198	4Blocks 2/1 - 2
		199	5Blocks 1/1 - 1
		200	5Blocks 1/1 - 2
		201	5Blocks 1/1 - 3
		202	5Blocks 1/1 - 4
		203	6Blocks 1/1 - 1
		204	6Blocks 1/1 - 2
		205	Join 1 - 1
		206	Join 1 - 2
		207	Join 1 - 3
		208	Join 1 - 4
		209	Join 1 - 5
		210	Join 1 - 6
		211	Join 2 - 1
		212	Join 2 - 2
		213	Join 2 - 3
		214	Join 2 - 4
		215	Join 2 - 5
		216	Join 2 - 6
		217	Join 3 - 1
		218	Join 3 - 2
		219	Join 3 - 3
		220	Join 3 - 4
		221	Join 4 - 1
		222	Join 4 - 2
		223	Join 4 - 3
		224	Switch 4 - 1
		225	Switch 4 - 2
		226–231	Fill Out - 1...6
		232–237	Fill In - 1...6
		238	Join 4/1 - 1
		239	Join 4/1 - 2
		240	Join 4/1 - 3
		241	Join 4/1 - 4
		242	Join 4/1 - 5
		243	Join 4/2 - 1
		244	Join 4/2 - 2
		245	Join 4/2 - 3
		246	Join 4/2 - 4
		247	Join 4/2 - 5

CH	Function	DMX	Description
6	Tube Pattern Selection 1 (continued)	248–255	Full Off
7	Pattern Selection X-fade 1	0–5	No Function
		6–255	1...250s
8	Pattern Speed 1	0–5	No Function
		6	Left to Right: Fast Speed
		7–123	Left to Right: Fast Speed ... Slow Speed
		124	Left to Right: Slow Speed
		125–130	No Function
		131	Right to Left: Slow Speed
		132–248	Right to Left: Slow Speed ... Fast Speed
		249	Right to Left: Fast Speed
		250–255	No Function
9	Pattern X-fade 1	0–5	Snap from Cell to Cell
		6	Short Fade
		7–254	Short Fade ... Long Fade
		255	Long Fade
10	Pattern Space 1	0–41	1-Segment Space
		42–84	2-Segment Spaces
		85–127	3-Segment Spaces
		128–170	4-Segment Spaces
		171–213	5-Segment Spaces
		214–255	6-Segment Spaces
11	Dimmer 3		Same as CH 5 in the mode “15CH Simple Mode” (p. 12)
12	Shutter 2		Same as CH 6 in the mode “15CH Simple Mode” (p. 12)
13	Strobe Duration 2	0–255	
14	Pattern Dimmer 2	0	Min
		1–254	Min ... Max
		255	Max
15	Tube Pattern Selection 2	0–5	Full On
		6	Move 1 - 1
		7	Move 1 - 2
		8	Move 1 - 3
		9	Move 1 - 4
		10	Move 1 - 5
		11	Move 1 - 6
		12	Move 1 - 7
		13	Move 1 - 8
		14	Move 1 - 9
		15	Move 1 - 10
		16	Move 1 - 11
		17	Move 1 - 12
		18	Move 2 - 1

CH	Function	DMX	Description
15	Tube Pattern Selection 2 (continued)	19	Move 2 - 2
		20	Move 2 - 3
		21	Move 2 - 4
		22	Move 2 - 5
		23	Move 2 - 6
		24	Move 2 - 7
		25	Move 2 - 8
		26	Move 2 - 9
		27	Move 2 - 10
		28	Move 2 - 11
		29	Move 3 - 1
		30	Move 3 - 2
		31	Move 3 - 3
		32	Move 3 - 4
		33	Move 3 - 5
		34	Move 3 - 6
		35	Move 3 - 7
		36	Move 3 - 8
		37	Move 3 - 9
		38	Move 3 - 10
		39	Move 4 - 1
		40	Move 4 - 2
		41	Move 4 - 3
		42	Move 4 - 4
		43	Move 4 - 5
		44	Move 4 - 6
		45	Move 4 - 7
		46	Move 4 - 8
		47	Move 4 - 9
		48	Move 5 - 1
		49	Move 5 - 2
		50	Move 5 - 3
		51	Move 5 - 4
		52	Move 5 - 5
		53	Move 5 - 6
		54	Move 5 - 7
		55	Move 5 - 8
		56	Move 6 - 1
		57	Move 6 - 2
		58	Move 6 - 3
		59	Move 6 - 4
		60	Move 6 - 5

CH	Function	DMX	Description
15	Tube Pattern Selection 2 (continued)	61	Move 6 - 6
		62	Move 6 - 7
		63	Move 7 - 1
		64	Move 7 - 2
		65	Move 7 - 3
		66	Move 7 - 4
		67	Move 7 - 5
		68	Move 7 - 6
		69	Move 8 - 1
		70	Move 8 - 2
		71	Move 8 - 3
		72	Move 8 - 4
		73	Move 8 - 5
		74	Move 9 - 1
		75	Move 9 - 2
		76	Move 9 - 3
		77	Move 9 - 4
		78	Move 10 - 1
		79	Move 10 - 2
		80	Move 10 - 3
		81	Move 11 - 1
		82	Move 11 - 2
		83	2Blocks 1/1 - 1
		84	2Blocks 1/1 - 2
		85	2Blocks 1/1 - 3
		86	2Blocks 1/1 - 4
		87	2Blocks 1/1 - 5
		88	2Blocks 1/1 - 6
		89	2Blocks 1/1 - 7
		90	2Blocks 1/1 - 8
		91	2Blocks 1/1 - 9
		92	2Blocks 1/1 - 10
		93	2Blocks 1/2 - 1
		94	2Blocks 1/2 - 2
		95	2Blocks 1/2 - 3
		96	2Blocks 1/2 - 4
		97	2Blocks 1/2 - 5
		98	2Blocks 1/2 - 6
		99	2Blocks 1/2 - 7
		100	2Blocks 1/2 - 8
		101	2Blocks 1/2 - 9
		102	2Blocks 1/3 - 1

CH	Function	DMX	Description
15	Tube Pattern Selection 2 (continued)	103	2Blocks 1/3 - 2
		104	2Blocks 1/3 - 3
		105	2Blocks 1/3 - 4
		106	2Blocks 1/3 - 5
		107	2Blocks 1/3 - 6
		108	2Blocks 1/3 - 7
		109	2Blocks 1/3 - 8
		110	2Blocks 1/4 - 1
		111	2Blocks 1/4 - 2
		112	2Blocks 1/4 - 3
		113	2Blocks 1/4 - 4
		114	2Blocks 1/4 - 5
		115	2Blocks 1/4 - 6
		116	2Blocks 1/4 - 7
		117	2Blocks 2/1 - 1
		118	2Blocks 2/1 - 2
		119	2Blocks 2/1 - 3
		120	2Blocks 2/1 - 4
		121	2Blocks 2/1 - 5
		122	2Blocks 2/1 - 6
		123	2Blocks 2/1 - 7
		124	2Blocks 2/1 - 8
		125	2Blocks 2/2 - 1
		126	2Blocks 2/2 - 2
		127	2Blocks 2/2 - 3
		128	2Blocks 2/2 - 4
		129	2Blocks 2/2 - 5
		130	2Blocks 2/2 - 6
		131	2Blocks 2/2 - 7
		132	2Blocks 2/3 - 1
		133	2Blocks 2/3 - 2
		134	2Blocks 2/3 - 3
		135	2Blocks 2/3 - 4
		136	2Blocks 2/3 - 5
		137	2Blocks 2/3 - 6
		138	2Blocks 2/4 - 1
		139	2Blocks 2/4 - 2
		140	2Blocks 2/4 - 3
		141	2Blocks 2/4 - 4
		142	2Blocks 2/4 - 5
		143	2Blocks 3/1 - 1
		144	2Blocks 3/1 - 2

CH	Function	DMX	Description
15	Tube Pattern Selection 2 (continued)	145	2Blocks 3/1 - 3
		146	2Blocks 3/1 - 4
		147	2Blocks 3/1 - 5
		148	2Blocks 3/1 - 6
		149	2Blocks 3/2 - 1
		150	2Blocks 3/2 - 2
		151	2Blocks 3/2 - 3
		152	2Blocks 3/2 - 4
		153	2Blocks 3/2 - 5
		154	2Blocks 3/3 - 1
		155	2Blocks 3/3 - 2
		156	2Blocks 3/3 - 3
		157	2Blocks 3/3 - 4
		158	3Blocks 1/1 - 1
		159	3Blocks 1/1 - 2
		160	3Blocks 1/1 - 3
		161	3Blocks 1/1 - 4
		162	3Blocks 1/1 - 5
		163	3Blocks 1/1 - 6
		164	3Blocks 1/1 - 7
		165	3Blocks 1/1 - 8
		166	3Blocks 1/2 - 1
		167	3Blocks 1/2 - 2
		168	3Blocks 1/2 - 3
		169	3Blocks 1/2 - 4
		170	3Blocks 1/2 - 5
		171	3Blocks 1/2 - 6
		172	3Blocks 1/3 - 1
		173	3Blocks 1/3 - 2
		174	3Blocks 1/3 - 3
		175	3Blocks 1/3 - 4
		176	3Blocks 1/4 - 1
		177	3Blocks 1/4 - 2
		178	3Blocks 2/1 - 1
		179	3Blocks 2/1 - 2
		180	3Blocks 2/1 - 3
		181	3Blocks 2/1 - 4
		182	3Blocks 2/1 - 5
		183	3Blocks 2/2 - 1
		184	3Blocks 2/2 - 2
		185	3Blocks 2/2 - 3
		186	3Blocks 3/1 - 1

CH	Function	DMX	Description
15	Tube Pattern Selection 2 (continued)	187	3Blocks 3/1 - 2
		188	4Blocks 1/1 - 1
		189	4Blocks 1/1 - 2
		190	4Blocks 1/1 - 3
		191	4Blocks 1/1 - 4
		192	4Blocks 1/1 - 5
		193	4Blocks 1/1 - 6
		194	4Blocks 1/2 - 1
		195	4Blocks 1/2 - 2
		196	4Blocks 1/2 - 3
		197	4Blocks 2/1 - 1
		198	4Blocks 2/1 - 2
		199	5Blocks 1/1 - 1
		200	5Blocks 1/1 - 2
		201	5Blocks 1/1 - 3
		202	5Blocks 1/1 - 4
		203	6Blocks 1/1 - 1
		204	6Blocks 1/1 - 2
		205	Join 1 - 1
		206	Join 1 - 2
		207	Join 1 - 3
		208	Join 1 - 4
		209	Join 1 - 5
		210	Join 1 - 6
		211	Join 2 - 1
		212	Join 2 - 2
		213	Join 2 - 3
		214	Join 2 - 4
		215	Join 2 - 5
		216	Join 2 - 6
		217	Join 3 - 1
		218	Join 3 - 2
		219	Join 3 - 3
		220	Join 3 - 4
		221	Join 4 - 1
		222	Join 4 - 2
		223	Join 4 - 3
		224	Switch 4 - 1
		225	Switch 4 - 2
		226–231	Fill Out - 1...6
		232–237	Fill In - 1...6
		238	Join 4/1 - 1

CH	Function	DMX	Description
15	Tube Pattern Selection 2 (continued)	239	Join 4/1 - 2
		240	Join 4/1 - 3
		241	Join 4/1 - 4
		242	Join 4/1 - 5
		243	Join 4/2 - 1
		244	Join 4/2 - 2
		245	Join 4/2 - 3
		246	Join 4/2 - 4
		247	Join 4/2 - 5
		248–255	Full Off
16	Pattern Selection X-fade 2	0–5	No Function
		6–255	1...250s
17	Tube Group Pattern Selection	0–5	Full On
		6–13	Bounce A1...8
		14	Wave 1
		15	Wave 2
		16–21	Wave 4...9
		22	Loop A1
		23	Loop A2
		24	Loop A4
		25	Loop A6
		26	Loop A9
		27	Loop A12
		28	Loop A18
		29–34	Loop B1...6
		35	Loop B8
		36–41	Loop B1...6 MIR
		42	Loop B8 MIR
		43	Circus A1
		44	Circus A2
		45	Circus A4
		46	Circus A8
		47	Circus A12
		48	Circus A14
		49	Circus A20
		50	Circus B1
		51	Circus B2
		52	Circus B4
		53	Circus B6
		54	Circus B10
		55	Circus B12
		56	Rotor A1

CH	Function	DMX	Description
17	Tube Group Pattern Selection (continued)	57	Rotor A2
		58	Rotor A4
		59	Rotor A8
		60	Rotor A12
		61	Rotor A18
		62	Rotor A26
		63	Rotor B1
		64	Rotor B2
		65	Rotor B3
		66	Rotor B4
		67	Rotor B6
		68	Rotor B8
		69	Rotor B11
		70	Rotor A1/2
		71	Rotor A2I2
		72	Rotor A3I2
		73	Rotor A4I2
		74	Rotor A6I2
		75	Rotor A9I2
		76	Rotor A14I2
		77	Rotor A1/2 MIR
		78	Rotor A2/2 MIR
		79	Rotor A3 MIR
		80	Rotor A4 MIR
		81	Rotor A6 MIR
		82	Rotor A9 MIR
		83	Rotor A14 MIR
		84	Rotor B1I2
		85	Rotor B2I2
		86	Rotor B3I2
		87	Rotor B4I2
		88	Rotor B6I2
		89	Rotor B9I2
		90	Rotor B14I2
		91	Rotor B1I2 MIR
		92	Rotor B2I2 MIR
		93	Rotor B3I2 MIR
		94	Rotor B4I2 MIR
		95	Rotor B6I2 MIR
		96	Rotor B9I2 MIR
		97	Rotor B14I2 MIR
		98	Rotor B1I2 INV

CH	Function	DMX	Description
17	Tube Group Pattern Selection (continued)	99	Rotor B2I2 INV
		100	Rotor B3I2 INV
		101	Rotor B4I2 INV
		102	Rotor B5I2 INV
		103	Rotor B6I2 INV
		104	Rotor B7I2 INV
		105	Rotor A1/3
		106	Rotor A2/3
		107	Rotor A3/3
		108	Rotor A4/3
		109	Rotor A6/3
		110	Rotor A7/3
		111	Rotor A10/3
		112	Rotor B1/3
		113	Rotor B2/3
		114	Rotor B3/3
		115	Rotor B4/3
		116	Rotor B5/3
		117	Rotor B1/3 INV
		118	Rotor B2/3 INV
		119	Rotor B3/3 INV
		120	Rotor B4/3 INV
		121	Rotor B5/3 INV
		122	Rotor A1/4
		123	Rotor A2/4
		124	Rotor A3/4
		125	Rotor A4/4
		126	Rotor A6/4
		127	Rotor A8/4
		128	Rotor A9/4
		129	Rotor B1/4
		130	Rotor B2/4
		131	Rotor A3/4
		132	Rotor A4/4
		133	Rombus
		134	ZikZak
		135	Rain 1
		136	Rain 2
		137	Rain 3
		138	Rain 4
		139	Rain 6
		140	Rain 10

CH	Function	DMX	Description
17	Tube Group Pattern Selection (continued)	141	Red Carpet
		142	Welding
		143	Picture A
		144	Picture B
		145	Picture C
		146–147	Picture D
		148–255	Full Off
18	Group Pattern Selection X-Fade	0–5	No Function
		6–255	1...250s
19	Pattern Speed 2	0–5	No Function
		6	Left to Right: Fast Speed
		7–123	Left to Right: Fast Speed ... Slow Speed
		124	Left to Right: Slow Speed
		125–130	No Function
		131	Right to Left: Slow Speed
		132–248	Right to Left: Slow Speed ... Fast Speed
		249	Right to Left: Fast Speed
		250–255	No Function
20	Pattern X-fade 2	0–5	Snap from Cell to Cell
		6	Short Fade
		7–254	Short Fade ... Long Fade
		255	Long Fade
21	Pattern Space 2	0–41	1-Segment Space
		42–84	2-Segment Spaces
		85–127	3-Segment Spaces
		128–170	4-Segment Spaces
		171–213	5-Segment Spaces
		214–255	6-Segment Spaces
22	Dimmer 4		Same as CH 8 in the mode “15CH Simple Mode” (p. 13)
23	Shutter 3		Same as CH 9 in the mode “15CH Simple Mode” (p. 13)
24	Strobe Duration 3	0–255	
25	Red		Same as CH 11 in the mode “15CH Simple Mode” (p. 14)
26	Green		Same as CH 12 in the mode “15CH Simple Mode” (p. 15)
27	Blue		Same as CH 13 in the mode “15CH Simple Mode” (p. 15)
28	Color Temperature		Same as CH 14 in the mode “15CH Simple Mode” (p. 15)
29	Pattern Dimmer 3	0	Min
		1–254	Min ... Max
		255	Max
30	RGB Panel Pattern Selection	0–5	Full On
		6	Move 1 - 1
		7	Move 1 - 2
		8	Move 1 - 3

CH	Function	DMX	Description
30	RGB Panel Pattern Selection (continued)	9	Move 1 - 4
		10	Move 1 - 5
		11	Move 1 - 6
		12	Move 2 - 1
		13	Move 2 - 2
		14	Move 2 - 3
		15	Move 2 - 4
		16	Move 2 - 5
		17	Move 3 - 1
		18	Move 3 - 2
		19	Move 3 - 3
		20	Move 3 - 4
		21	Move 4 - 1
		22	Move 4 - 2
		23	Move 4 - 3
		24	Move 5 - 1
		25	Move 5 - 2
		26	Wave 6 - 1
		27	Wave 6 - 2
		28	Wave 6 - 3
		29	Wave 6 - 4
		30	Wave 6 - 5
		31	Wave 6 - 6
		32	Wave 6 - 7
		33	Wave 6 - 8
		34	Wave 6 - 9
		35	Wave 6 - 10
		36	Wave 6 - 11
		37	Wave 5 - 1
		38	Wave 5 - 2
		39	Wave 5 - 3
		40	Wave 5 - 4
		41	Wave 5 - 5
		42	Wave 5 - 6
		43	Wave 5 - 7
		44	Wave 5 - 8
		45	Wave 5 - 9
		46	Wave 5 - 10
		47	Wave 4 - 1
		48	Wave 4 - 2
		49	Wave 4 - 3
		50	Wave 4 - 4

CH	Function	DMX	Description
30	RGB Panel Pattern Selection (continued)	51	Wave 4 - 5
		52	Wave 4 - 6
		53	Wave 4 - 7
		54	Wave 4 - 8
		55	Wave 4 - 9
		56	Wave 3 - 1
		57	Wave 3 - 2
		58	Wave 3 - 3
		59	Wave 3 - 4
		60	Wave 3 - 5
		61	Wave 3 - 6
		62	Wave 3 - 7
		63	Wave 3 - 8
		64	2Blocks 1/1 - 1
		65	2Blocks 1/1 - 2
		66	2Blocks 1/1 - 3
		67	2Blocks 1/1 - 4
		68	2Blocks 2/1 - 1
		69	2Blocks 2/1 - 2
		70	3Blocks 3/1 - 1
		71	3Blocks 3/1 - 2
		72	Cross 1 - 1
		73	Cross 1 - 2
		74	Cross 1 - 3
		75	Cross 1 - 4
		76	Cross 1 - 6
		77	Cross 1 - 7
		78	Cross 2 - 1
		79	Cross 2 - 2
		80	Cross 2 - 3
		81	Cross 2 - 4
		82	Cross 2 - 5
		83–128	Reserved
		129	Pulse A1
		130	Pulse A2
		131	Pulse A3
		132	Pulse A4
		133	Pulse A5
		134	Pulse A1/2
		135	Pulse A1I2
		136	Pulse A2/2
		137	Pulse A1/3

CH	Function	DMX	Description
30	RGB Panel Pattern Selection (continued)	138	Bounce A1
		139	Bounce A2
		140	Bounce A3
		141	Bounce A4
		142	Bounce A1 inv
		143	Bounce A2 inv
		144	Bounce A3 inv
		145	Bounce A4 inv
		146	Bounce A1/2
		147	Bounce A1I2 inv
		148	Bounce A2I2 inv
		149	Bounce A1I3
		150	Bounce A1/3 inv
		151	Rotor A1
		152	Rotor A2
		153	Rotor A4
		154	Rotor A6
		155	Rotor A8
		156	Rotor A10
		157	Rotor B1
		158	Rotor B2
		159	Rotor B3
		160	Rotor B4
		161	Rotor B5
		162	Rotor A1I2
		163	Rotor A2I2
		164	Rotor A3/2
		165	Rotor A4/2
		166	Rotor A5/2
		167	Rotor A1I3
		168	Rotor B1I2
		169	Rotor B2I2
		170	Rotor B1I3
		171	Snake A1
		172	Snake A2
		173	Snake A3
		174	Snake A4
		175–255	Full Off
31	Pattern Selection X-fade 3	0–5	No Function
		6–255	1...250s
32	Pattern Speed 3	0–5	No Function
		6	Left to Right: Fast Speed

CH	Function	DMX	Description
32	Pattern Speed 3 (continued)	7–123	Left to Right: Fast Speed ... Slow Speed
		124	Left to Right: Slow Speed
		125–130	No Function
		131	Right to Left: Slow Speed
		132–248	Right to Left: Slow Speed ... Fast Speed
		249	Right to Left: Fast Speed
		250–255	No Function
33	Pattern X-fade 3	0–5	Snap from Cell to Cell
		6	Short Fade
		7–254	Short Fade ... Long Fade
		255	Long Fade
34	Pattern Space 3	0–41	1-Segment Space
		42–84	2-Segment Spaces
		85–127	3-Segment Spaces
		128–170	4-Segment Spaces
		171–213	5-Segment Spaces
		214–255	6-Segment Spaces
35	Pattern Red	0	Min
		1–254	Min ... Max
		255	Max
36	Pattern Green	0	Min
		1–254	Min ... Max
		255	Max
37	Pattern Blue	0	Min
		1–254	Min ... Max
		255	Max
38	Pattern CTC	0–4	7000 K
		5	2000K
		6	2020K
		7	2041K
		8	2061K
		9	2081K
		10	2102K
		11	2122K
		12	2143K
		13	2163K
		14	2183K
		15	2204K
		16	2224K
		17	2244K
		18	2265K
		19	2285K

CH	Function	DMX	Description
38	Pattern CTC (continued)	20	2305K
		21	2326K
		22	2346K
		23	2367K
		24	2387K
		25	2407K
		26	2428K
		27	2448K
		28	2468K
		29	2489K
		30	2509K
		31	2529K
		32	2550K
		33	2570K
		34	2590K
		35	2611K
		36	2631K
		37	2652K
		38	2672K
		39	2692K
		40	2713K
		41	2733K
		42	2753K
		43	2774K
		44	2794K
		45	2814K
		46	2835K
		47	2855K
		48	2876K
		49	2896K
		50	2916K
		51	2937K
		52	2957K
		53	2977K
		54	2998K
		55	3018K
		56	3038K
		57	3059K
		58	3079K
		59	3100K
		60	3120K
		61	3140K

CH	Function	DMX	Description
38	Pattern CTC (continued)	62	3161K
		63	3181K
		64	3201K
		65	3222K
		66	3242K
		67	3262K
		68	3283K
		69	3303K
		70	3324K
		71	3344K
		72	3364K
		73	3385K
		74	3405K
		75	3425K
		76	3446K
		77	3466K
		78	3486K
		79	3507K
		80	3527K
		81	3548K
		82	3568K
		83	3588K
		84	3609K
		85	3629K
		86	3649K
		87	3670K
		88	3690K
		89	3710K
		90	3731K
		91	3751K
		92	3771K
		93	3792K
		94	3812K
		95	3833K
		96	3853K
		97	3873K
		98	3894K
		99	3914K
		100	3934K
		101	3955K
		102	3975K
		103	3995K

CH	Function	DMX	Description
38	Pattern CTC (continued)	104	4016K
		105	4036K
		106	4057K
		107	4077K
		108	4097K
		109	4118K
		110	4138K
		111	4158K
		112	4179K
		113	4199K
		114	4219K
		115	4240K
		116	4260K
		117	4281K
		118–119	4301K
		120	4342K
		121	4362K
		122	4382K
		123	4403K
		124	4423K
		125	4443K
		126	4464K
		127	4484K
		128	4505K
		129	4525K
		130	4545K
		131	4566K
		132	4586K
		133	4606K
		134	4627K
		135	4647K
		136	4667K
		137	4688K
		138	4708K
		139	4729K
		140	4749K
		141	4769K
		142	4790K
		143	4810K
		144	4830K
		145	4851K
		146	4871K

CH	Function	DMX	Description
38	Pattern CTC (continued)	147	4891K
		148	4912K
		149	4932K
		150	4952K
		151	4973K
		152	4993K
		153	5014K
		154	5034K
		155	5054K
		156	5075K
		157	5095K
		158	5115K
		159	5136K
		160	5156K
		161	5176K
		162	5197K
		163	5217K
		164	5238K
		165	5258K
		166	5278K
		167	5299K
		168	5319K
		169	5339K
		170	5360K
		171	5380K
		172	5400K
		173	5421K
		174	5441K
		175	5462K
		176	5482K
		177	5502K
		178	5523K
		179	5543K
		180	5563K
		181	5584K
		182	5604K
		183	5624K
		184	5645K
		185	5665K
		186	5686K
		187	5706K
		188	5726K

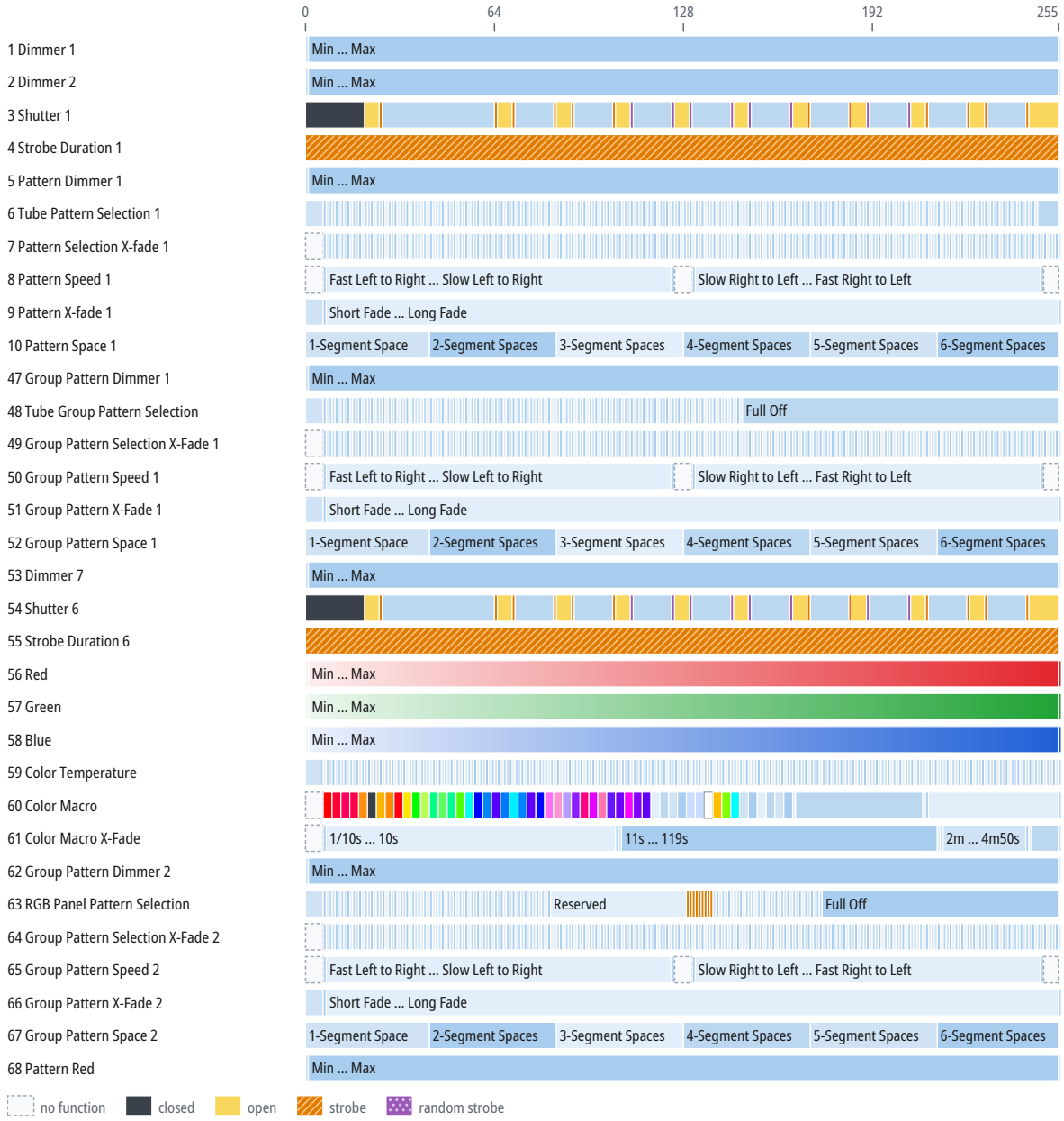
CH	Function	DMX	Description
38	Pattern CTC (continued)	189	5747K
		190	5767K
		191	5787K
		192	5808K
		193	5828K
		194	5848K
		195	5869K
		196	5889K
		197	5910K
		198	5930K
		199	5950K
		200	5971K
		201	5991K
		202	6011K
		203	6032K
		204	6052K
		205	6072K
		206	6093K
		207	6113K
		208	6133K
		209	6154K
		210	6174K
		211	6195K
		212	6215K
		213	6235K
		214	6256K
		215	6276K
		216	6296K
		217	6317K
		218	6337K
		219	6357K
		220	6378K
		221	6398K
		222	6419K
		223	6439K
		224	6459K
		225	6480K
		226	6500K
		227	6621K
		228	6741K
		229	6862K
		230	6983K

CH	Function	DMX	Description
38	Pattern CTC (continued)	231	7103K
		232	7224K
		233	7345K
		234	7466K
		235	7586K
		236	7707K
		237	7828K
		238	7948K
		239	8069K
		240	8190K
		241	8310K
		242	8431K
		243	8552K
		244	8672K
		245	8793K
		246	8914K
		247	9034K
		248	9155K
		249	9276K
		250	9397K
		251	9517K
		252	9638K
		253	9759K
		254	9879K
		255	10000K
39	Control		Same as CH 15 in the mode “15CH Simple Mode” (p. 21)

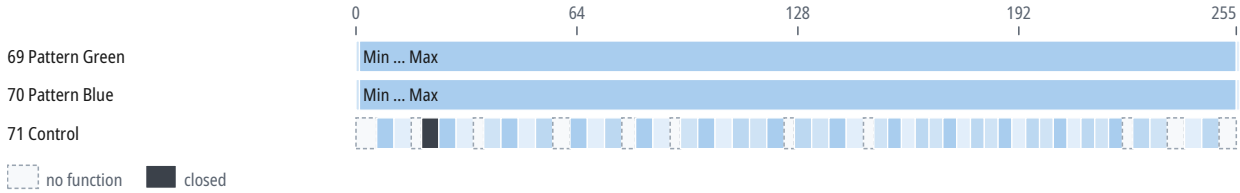
Mode 71CH Standard Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 3 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 12 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 21 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 30 Shutter 4 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 39 Shutter 5 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 54 Shutter 6 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Dimmer 2 255, CH 11 Dimmer 3 255, CH 20 Dimmer 4 255, CH 29 Dimmer 5 255, CH 38 Dimmer 6 255, CH 53 Dimmer 7 255, CH 56 Red 255, CH 57 Green 255, CH 58 Blue 255, CH 60 Color Macro 0.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “15CH Simple Mode” (p. 11)
2	Dimmer 2		Same as CH 2 in the mode “15CH Simple Mode” (p. 11)
3	Shutter 1		Same as CH 3 in the mode “15CH Simple Mode” (p. 11)
4	Strobe Duration 1	0–255	
5	Pattern Dimmer 1		Same as CH 5 in the mode “39CH Easy Mode” (p. 24)
6	Tube Pattern Selection 1		Same as CH 6 in the mode “39CH Easy Mode” (p. 24)
7	Pattern Selection X-fade 1		Same as CH 7 in the mode “39CH Easy Mode” (p. 30)
8	Pattern Speed 1	0–5	No Function
		6	Fast Left to Right
		7–123	Fast Left to Right ... Slow Left to Right
		124	Slow Left to Right
		125–130	No Function
		131	Slow Right to Left
		132–248	Slow Right to Left ... Fast Right to Left
		249	Fast Right to Left
		250–255	No Function
9	Pattern X-fade 1		Same as CH 9 in the mode “39CH Easy Mode” (p. 30)
10	Pattern Space 1		Same as CH 10 in the mode “39CH Easy Mode” (p. 30)
11	Dimmer 3		Same as CH 5 in the mode “15CH Simple Mode” (p. 12)
12	Shutter 2		Same as CH 6 in the mode “15CH Simple Mode” (p. 12)
13	Strobe Duration 2	0–255	
14	Pattern Dimmer 2		Same as CH 14 in the mode “39CH Easy Mode” (p. 30)
15	Tube Pattern Selection 2		Same as CH 15 in the mode “39CH Easy Mode” (p. 30)
16	Pattern Selection X-fade 2		Same as CH 16 in the mode “39CH Easy Mode” (p. 36)
17	Pattern Speed 2	0–5	No Function
		6	Left to Right: Fast
		7–123	Left to Right: Fast ... Slow
		124	Left to Right: Slow
		125–130	No Function
		131	Right to Left: Slow
		132–248	Right to Left: Slow ... Fast
		249	Right to Left: Fast
		250–255	No Function
18	Pattern X-fade 2		Same as CH 20 in the mode “39CH Easy Mode” (p. 39)
19	Pattern Space 2		Same as CH 21 in the mode “39CH Easy Mode” (p. 39)

CH	Function	DMX	Description
20	Dimmer 4		Same as CH 8 in the mode “15CH Simple Mode” (p. 13)
21	Shutter 3		Same as CH 9 in the mode “15CH Simple Mode” (p. 13)
22	Strobe Duration 3	0–255	
23	Pattern Dimmer 3		Same as CH 29 in the mode “39CH Easy Mode” (p. 39)
24	Tube Pattern Selection 3	0–5	Full On
		6	Move 1 - 1
		7	Move 1 - 2
		8	Move 1 - 3
		9	Move 1 - 4
		10	Move 1 - 5
		11	Move 1 - 6
		12	Move 1 - 7
		13	Move 1 - 8
		14	Move 1 - 9
		15	Move 1 - 10
		16	Move 1 - 11
		17	Move 1 - 12
		18	Move 2 - 1
		19	Move 2 - 2
		20	Move 2 - 3
		21	Move 2 - 4
		22	Move 2 - 5
		23	Move 2 - 6
		24	Move 2 - 7
		25	Move 2 - 8
		26	Move 2 - 9
		27	Move 2 - 10
		28	Move 2 - 11
		29	Move 3 - 1
		30	Move 3 - 2
		31	Move 3 - 3
		32	Move 3 - 4
		33	Move 3 - 5
		34	Move 3 - 6
		35	Move 3 - 7
		36	Move 3 - 8
		37	Move 3 - 9
		38	Move 3 - 10
		39	Move 4 - 1
		40	Move 4 - 2
		41	Move 4 - 3
		42	Move 4 - 4

CH	Function	DMX	Description
24	Tube Pattern Selection 3 (continued)	43	Move 4 - 5
		44	Move 4 - 6
		45	Move 4 - 7
		46	Move 4 - 8
		47	Move 4 - 9
		48	Move 5 - 1
		49	Move 5 - 2
		50	Move 5 - 3
		51	Move 5 - 4
		52	Move 5 - 5
		53	Move 5 - 6
		54	Move 5 - 7
		55	Move 5 - 8
		56	Move 6 - 1
		57	Move 6 - 2
		58	Move 6 - 3
		59	Move 6 - 4
		60	Move 6 - 5
		61	Move 6 - 6
		62	Move 6 - 7
		63	Move 7 - 1
		64	Move 7 - 2
		65	Move 7 - 3
		66	Move 7 - 4
		67	Move 7 - 5
		68	Move 7 - 6
		69	Move 8 - 1
		70	Move 8 - 2
		71	Move 8 - 3
		72	Move 8 - 4
		73	Move 8 - 5
		74	Move 9 - 1
		75	Move 9 - 2
		76	Move 9 - 3
		77	Move 9 - 4
		78	Move 10 - 1
		79	Move 10 - 2
		80	Move 10 - 3
		81	Move 11 - 1
		82	Move 11 - 2
		83	2Blocks 1/1 - 1
		84	2Blocks 1/1 - 2

CH	Function	DMX	Description
24	Tube Pattern Selection 3 (continued)	85	2Blocks 1/1 - 3
		86	2Blocks 1/1 - 4
		87	2Blocks 1/1 - 5
		88	2Blocks 1/1 - 6
		89	2Blocks 1/1 - 7
		90	2Blocks 1/1 - 8
		91	2Blocks 1/1 - 9
		92	2Blocks 1/1 - 10
		93	2Blocks 1/2 - 1
		94	2Blocks 1/2 - 2
		95	2Blocks 1/2 - 3
		96	2Blocks 1/2 - 4
		97	2Blocks 1/2 - 5
		98	2Blocks 1/2 - 6
		99	2Blocks 1/2 - 7
		100	2Blocks 1/2 - 8
		101	2Blocks 1/2 - 9
		102	2Blocks 1/3 - 1
		103	2Blocks 1/3 - 2
		104	2Blocks 1/3 - 3
		105	2Blocks 1/3 - 4
		106	2Blocks 1/3 - 5
		107	2Blocks 1/3 - 6
		108	2Blocks 1/3 - 7
		109	2Blocks 1/3 - 8
		110	2Blocks 1/4 - 1
		111	2Blocks 1/4 - 2
		112	2Blocks 1/4 - 3
		113	2Blocks 1/4 - 4
		114	2Blocks 1/4 - 5
		115	2Blocks 1/4 - 6
		116	2Blocks 1/4 - 7
		117	2Blocks 2/1 - 1
		118	2Blocks 2/1 - 2
		119	2Blocks 2/1 - 3
		120	2Blocks 2/1 - 4
		121	2Blocks 2/1 - 5
		122	2Blocks 2/1 - 6
		123	2Blocks 2/1 - 7
		124	2Blocks 2/1 - 8
		125	2Blocks 2/2 - 1
		126	2Blocks 2/2 - 2

CH	Function	DMX	Description
24	Tube Pattern Selection 3 (continued)	127	2Blocks 2/2 - 3
		128	2Blocks 2/2 - 4
		129	2Blocks 2/2 - 5
		130	2Blocks 2/2 - 6
		131	2Blocks 2/2 - 7
		132	2Blocks 2/3 - 1
		133	2Blocks 2/3 - 2
		134	2Blocks 2/3 - 3
		135	2Blocks 2/3 - 4
		136	2Blocks 2/3 - 5
		137	2Blocks 2/3 - 6
		138	2Blocks 2/4 - 1
		139	2Blocks 2/4 - 2
		140	2Blocks 2/4 - 3
		141	2Blocks 2/4 - 4
		142	2Blocks 2/4 - 5
		143	2Blocks 3/1 - 1
		144	2Blocks 3/1 - 2
		145	2Blocks 3/1 - 3
		146	2Blocks 3/1 - 4
		147	2Blocks 3/1 - 5
		148	2Blocks 3/1 - 6
		149	2Blocks 3/2 - 1
		150	2Blocks 3/2 - 2
		151	2Blocks 3/2 - 3
		152	2Blocks 3/2 - 4
		153	2Blocks 3/2 - 5
		154	2Blocks 3/3 - 1
		155	2Blocks 3/3 - 2
		156	2Blocks 3/3 - 3
		157	2Blocks 3/3 - 4
		158	3Blocks 1/1 - 1
		159	3Blocks 1/1 - 2
		160	3Blocks 1/1 - 3
		161	3Blocks 1/1 - 4
		162	3Blocks 1/1 - 5
		163	3Blocks 1/1 - 6
		164	3Blocks 1/1 - 7
		165	3Blocks 1/1 - 8
		166	3Blocks 1/2 - 1
		167	3Blocks 1/2 - 2
		168	3Blocks 1/2 - 3

CH	Function	DMX	Description
24	Tube Pattern Selection 3 (continued)	169	3Blocks 1/2 - 4
		170	3Blocks 1/2 - 5
		171	3Blocks 1/2 - 6
		172	3Blocks 1/3 - 1
		173	3Blocks 1/3 - 2
		174	3Blocks 1/3 - 3
		175	3Blocks 1/3 - 4
		176	3Blocks 1/4 - 1
		177	3Blocks 1/4 - 2
		178	3Blocks 2/1 - 1
		179	3Blocks 2/1 - 2
		180	3Blocks 2/1 - 3
		181	3Blocks 2/1 - 4
		182	3Blocks 2/1 - 5
		183	3Blocks 2/2 - 1
		184	3Blocks 2/2 - 2
		185	3Blocks 2/2 - 3
		186	3Blocks 3/1 - 1
		187	3Blocks 3/1 - 2
		188	4Blocks 1/1 - 1
		189	4Blocks 1/1 - 2
		190	4Blocks 1/1 - 3
		191	4Blocks 1/1 - 4
		192	4Blocks 1/1 - 5
		193	4Blocks 1/1 - 6
		194	4Blocks 1/2 - 1
		195	4Blocks 1/2 - 2
		196	4Blocks 1/2 - 3
		197	4Blocks 2/1 - 1
		198	4Blocks 2/1 - 2
		199	5Blocks 1/1 - 1
		200	5Blocks 1/1 - 2
		201	5Blocks 1/1 - 3
		202	5Blocks 1/1 - 4
		203	6Blocks 1/1 - 1
		204	6Blocks 1/1 - 2
		205	Join 1 - 1
		206	Join 1 - 2
		207	Join 1 - 3
		208	Join 1 - 4
		209	Join 1 - 5
		210	Join 1 - 6

CH	Function	DMX	Description
24	Tube Pattern Selection 3 (continued)	211	Join 2 - 1
		212	Join 2 - 2
		213	Join 2 - 3
		214	Join 2 - 4
		215	Join 2 - 5
		216	Join 2 - 6
		217	Join 3 - 1
		218	Join 3 - 2
		219	Join 3 - 3
		220	Join 3 - 4
		221	Join 4 - 1
		222	Join 4 - 2
		223	Join 4 - 3
		224	Switch 4 - 1
		225	Switch 4 - 2
		226–231	Fill Out - 1...6
		232–237	Fill In - 1...6
		238	Join 4/1 - 1
		239	Join 4/1 - 2
		240	Join 4/1 - 3
		241	Join 4/1 - 4
		242	Join 4/1 - 5
		243	Join 4/2 - 1
		244	Join 4/2 - 2
		245	Join 4/2 - 3
		246	Join 4/2 - 4
		247	Join 4/2 - 5
		248–255	Full Off
25	Pattern Selection X-fade 3		Same as CH 31 in the mode “39CH Easy Mode” (p. 42)
26	Pattern Speed 3	0–5	No Function
		6	Left to Right: Fast
		7–123	Left to Right: Fast ... Slow
		124	Left to Right: Slow
		125–130	No Function
		131	Right to Left: Slow
		132–248	Right to Left: Slow ... Fast
		249	Right to Left: Fast
		250–255	No Function
27	Pattern X-fade 3		Same as CH 33 in the mode “39CH Easy Mode” (p. 43)
28	Pattern Space 3		Same as CH 34 in the mode “39CH Easy Mode” (p. 43)
29	Dimmer 5	0	Min
		1–254	Min ... Max

CH	Function	DMX	Description
29	Dimmer 5 (continued)	255	Max
30	Shutter 4	0–19	Shutter Close
		20–24	Shutter Open
		25	Fast Strobe (3–1 Hz)
		26–63	Fast Strobe ... Slow Strobe
		64	Slow Strobe
		65–69	Open
		70	Opening Pulse: Fast Pulse (3–1 Hz)
		71–83	Opening Pulse: Fast Pulse ... Slow Pulse
		84	Opening Pulse: Slow Pulse
		85–89	Open
		90	Closing Pulse: Fast Pulse (3–1 Hz)
		91–103	Closing Pulse: Fast Pulse ... Slow Pulse
		104	Closing Pulse: Slow Pulse
		105–109	Open
		110	Random Strobe: Fast Strobe (3–1 Hz)
		111–123	Random Strobe: Fast Strobe ... Slow Strobe
		124	Random Strobe: Slow Strobe
		125–129	Open
		130	Random Opening Pulse: Fast Pulse (3–1 Hz)
		131–143	Random Opening Pulse: Fast Pulse ... Slow Pulse
		144	Random Opening Pulse: Slow Pulse
		145–149	Open
		150	Random Closing Pulse: Fast Pulse (3–1 Hz)
		151–163	Random Closing Pulse: Fast Pulse ... Slow Pulse
		164	Random Closing Pulse: Slow Pulse
		165–169	Open
		170	Burst Pulse: Fast Pulse (3–1 Hz)
		171–183	Burst Pulse: Fast Pulse ... Slow Pulse
		184	Burst Pulse: Slow Pulse
		185–189	Open
		190	Random Burst Pulse: Fast Pulse (3–1 Hz)
		191–203	Random Burst Pulse: Fast Pulse ... Slow Pulse
		204	Random Burst Pulse: Slow Pulse
		205–209	Open
		210	Fast Sin Wave (3–1 Hz)
		211–223	Fast Sin Wave ... Slow Sin Wave
		224	Slow Sin Wave
		225–229	Open
		230	Fast Burst
		231–243	Fast Burst ... Slow Burst
		244	Slow Burst

CH	Function	DMX	Description
30	Shutter 4 (continued)	245–255	Open
31	Strobe Duration 4	0–255	
32	Pattern Dimmer 4	0	Min
		1–254	Min ... Max
		255	Max
33	Tube Pattern Selection 4	0–5	Full On
		6	Move 1 - 1
		7	Move 1 - 2
		8	Move 1 - 3
		9	Move 1 - 4
		10	Move 1 - 5
		11	Move 1 - 6
		12	Move 1 - 7
		13	Move 1 - 8
		14	Move 1 - 9
		15	Move 1 - 10
		16	Move 1 - 11
		17	Move 1 - 12
		18	Move 2 - 1
		19	Move 2 - 2
		20	Move 2 - 3
		21	Move 2 - 4
		22	Move 2 - 5
		23	Move 2 - 6
		24	Move 2 - 7
		25	Move 2 - 8
		26	Move 2 - 9
		27	Move 2 - 10
		28	Move 2 - 11
		29	Move 3 - 1
		30	Move 3 - 2
		31	Move 3 - 3
		32	Move 3 - 4
		33	Move 3 - 5
		34	Move 3 - 6
		35	Move 3 - 7
		36	Move 3 - 8
		37	Move 3 - 9
		38	Move 3 - 10
		39	Move 4 - 1
		40	Move 4 - 2
		41	Move 4 - 3

CH	Function	DMX	Description
33	Tube Pattern Selection 4 (continued)	42	Move 4 - 4
		43	Move 4 - 5
		44	Move 4 - 6
		45	Move 4 - 7
		46	Move 4 - 8
		47	Move 4 - 9
		48	Move 5 - 1
		49	Move 5 - 2
		50	Move 5 - 3
		51	Move 5 - 4
		52	Move 5 - 5
		53	Move 5 - 6
		54	Move 5 - 7
		55	Move 5 - 8
		56	Move 6 - 1
		57	Move 6 - 2
		58	Move 6 - 3
		59	Move 6 - 4
		60	Move 6 - 5
		61	Move 6 - 6
		62	Move 6 - 7
		63	Move 7 - 1
		64	Move 7 - 2
		65	Move 7 - 3
		66	Move 7 - 4
		67	Move 7 - 5
		68	Move 7 - 6
		69	Move 8 - 1
		70	Move 8 - 2
		71	Move 8 - 3
		72	Move 8 - 4
		73	Move 8 - 5
		74	Move 9 - 1
		75	Move 9 - 2
		76	Move 9 - 3
		77	Move 9 - 4
		78	Move 10 - 1
		79	Move 10 - 2
		80	Move 10 - 3
		81	Move 11 - 1
		82	Move 11 - 2
		83	2Blocks 1/1 - 1

CH	Function	DMX	Description
33	Tube Pattern Selection 4 (continued)	84	2Blocks 1/1 - 2
		85	2Blocks 1/1 - 3
		86	2Blocks 1/1 - 4
		87	2Blocks 1/1 - 5
		88	2Blocks 1/1 - 6
		89	2Blocks 1/1 - 7
		90	2Blocks 1/1 - 8
		91	2Blocks 1/1 - 9
		92	2Blocks 1/1 - 10
		93	2Blocks 1/2 - 1
		94	2Blocks 1/2 - 2
		95	2Blocks 1/2 - 3
		96	2Blocks 1/2 - 4
		97	2Blocks 1/2 - 5
		98	2Blocks 1/2 - 6
		99	2Blocks 1/2 - 7
		100	2Blocks 1/2 - 8
		101	2Blocks 1/2 - 9
		102	2Blocks 1/3 - 1
		103	2Blocks 1/3 - 2
		104	2Blocks 1/3 - 3
		105	2Blocks 1/3 - 4
		106	2Blocks 1/3 - 5
		107	2Blocks 1/3 - 6
		108	2Blocks 1/3 - 7
		109	2Blocks 1/3 - 8
		110	2Blocks 1/4 - 1
		111	2Blocks 1/4 - 2
		112	2Blocks 1/4 - 3
		113	2Blocks 1/4 - 4
		114	2Blocks 1/4 - 5
		115	2Blocks 1/4 - 6
		116	2Blocks 1/4 - 7
		117	2Blocks 2/1 - 1
		118	2Blocks 2/1 - 2
		119	2Blocks 2/1 - 3
		120	2Blocks 2/1 - 4
		121	2Blocks 2/1 - 5
		122	2Blocks 2/1 - 6
		123	2Blocks 2/1 - 7
		124	2Blocks 2/1 - 8
		125	2Blocks 2/2 - 1

CH	Function	DMX	Description
33	Tube Pattern Selection 4 (continued)	126	2Blocks 2/2 - 2
		127	2Blocks 2/2 - 3
		128	2Blocks 2/2 - 4
		129	2Blocks 2/2 - 5
		130	2Blocks 2/2 - 6
		131	2Blocks 2/2 - 7
		132	2Blocks 2/3 - 1
		133	2Blocks 2/3 - 2
		134	2Blocks 2/3 - 3
		135	2Blocks 2/3 - 4
		136	2Blocks 2/3 - 5
		137	2Blocks 2/3 - 6
		138	2Blocks 2/4 - 1
		139	2Blocks 2/4 - 2
		140	2Blocks 2/4 - 3
		141	2Blocks 2/4 - 4
		142	2Blocks 2/4 - 5
		143	2Blocks 3/1 - 1
		144	2Blocks 3/1 - 2
		145	2Blocks 3/1 - 3
		146	2Blocks 3/1 - 4
		147	2Blocks 3/1 - 5
		148	2Blocks 3/1 - 6
		149	2Blocks 3/2 - 1
		150	2Blocks 3/2 - 2
		151	2Blocks 3/2 - 3
		152	2Blocks 3/2 - 4
		153	2Blocks 3/2 - 5
		154	2Blocks 3/3 - 1
		155	2Blocks 3/3 - 2
		156	2Blocks 3/3 - 3
		157	2Blocks 3/3 - 4
		158	3Blocks 1/1 - 1
		159	3Blocks 1/1 - 2
		160	3Blocks 1/1 - 3
		161	3Blocks 1/1 - 4
		162	3Blocks 1/1 - 5
		163	3Blocks 1/1 - 6
		164	3Blocks 1/1 - 7
		165	3Blocks 1/1 - 8
		166	3Blocks 1/2 - 1
		167	3Blocks 1/2 - 2

CH	Function	DMX	Description
33	Tube Pattern Selection 4 (continued)	168	3Blocks 1/2 - 3
		169	3Blocks 1/2 - 4
		170	3Blocks 1/2 - 5
		171	3Blocks 1/2 - 6
		172	3Blocks 1/3 - 1
		173	3Blocks 1/3 - 2
		174	3Blocks 1/3 - 3
		175	3Blocks 1/3 - 4
		176	3Blocks 1/4 - 1
		177	3Blocks 1/4 - 2
		178	3Blocks 2/1 - 1
		179	3Blocks 2/1 - 2
		180	3Blocks 2/1 - 3
		181	3Blocks 2/1 - 4
		182	3Blocks 2/1 - 5
		183	3Blocks 2/2 - 1
		184	3Blocks 2/2 - 2
		185	3Blocks 2/2 - 3
		186	3Blocks 3/1 - 1
		187	3Blocks 3/1 - 2
		188	4Blocks 1/1 - 1
		189	4Blocks 1/1 - 2
		190	4Blocks 1/1 - 3
		191	4Blocks 1/1 - 4
		192	4Blocks 1/1 - 5
		193	4Blocks 1/1 - 6
		194	4Blocks 1/2 - 1
		195	4Blocks 1/2 - 2
		196	4Blocks 1/2 - 3
		197	4Blocks 2/1 - 1
		198	4Blocks 2/1 - 2
		199	5Blocks 1/1 - 1
		200	5Blocks 1/1 - 2
		201	5Blocks 1/1 - 3
		202	5Blocks 1/1 - 4
		203	6Blocks 1/1 - 1
		204	6Blocks 1/1 - 2
		205	Join 1 - 1
		206	Join 1 - 2
		207	Join 1 - 3
		208	Join 1 - 4
		209	Join 1 - 5

CH	Function	DMX	Description
33	Tube Pattern Selection 4 (continued)	210	Join 1 - 6
		211	Join 2 - 1
		212	Join 2 - 2
		213	Join 2 - 3
		214	Join 2 - 4
		215	Join 2 - 5
		216	Join 2 - 6
		217	Join 3 - 1
		218	Join 3 - 2
		219	Join 3 - 3
		220	Join 3 - 4
		221	Join 4 - 1
		222	Join 4 - 2
		223	Join 4 - 3
		224	Switch 4 - 1
		225	Switch 4 - 2
		226–231	Fill Out - 1...6
		232–237	Fill In - 1...6
		238	Join 4/1 - 1
		239	Join 4/1 - 2
		240	Join 4/1 - 3
		241	Join 4/1 - 4
		242	Join 4/1 - 5
		243	Join 4/2 - 1
		244	Join 4/2 - 2
		245	Join 4/2 - 3
		246	Join 4/2 - 4
		247	Join 4/2 - 5
		248–255	Full Off
34	Pattern Selection X-fade 4	0–5	No Function
		6–255	1...250s
35	Pattern Speed 4	0–5	No Function
		6	Left to Right: Fast
		7–123	Left to Right: Fast ... Slow
		124	Left to Right: Slow
		125–130	No Function
		131	Right to Left: Slow
		132–248	Right to Left: Slow ... Fast
		249	Right to Left: Fast
		250–255	No Function
36	Pattern X-fade 4	0–5	Snap from Cell to Cell
		6	Short Fade

CH	Function	DMX	Description
36	Pattern X-fade 4 (continued)	7–254	Short Fade ... Long Fade
		255	Long Fade
37	Pattern Space 4	0–41	1-Segment Space
		42–84	2-Segment Spaces
		85–127	3-Segment Spaces
		128–170	4-Segment Spaces
		171–213	5-Segment Spaces
		214–255	6-Segment Spaces
38	Dimmer 6	0	Min
		1–254	Min ... Max
		255	Max
39	Shutter 5	0–19	Shutter Close
		20–24	Shutter Open
		25	Fast Strobe (3–1 Hz)
		26–63	Fast Strobe ... Slow Strobe
		64	Slow Strobe
		65–69	Open
		70	Opening Pulse: Fast Pulse (3–1 Hz)
		71–83	Opening Pulse: Fast Pulse ... Slow Pulse
		84	Opening Pulse: Slow Pulse
		85–89	Open
		90	Closing Pulse: Fast Pulse (3–1 Hz)
		91–103	Closing Pulse: Fast Pulse ... Slow Pulse
		104	Closing Pulse: Slow Pulse
		105–109	Open
		110	Random Strobe: Fast Strobe (3–1 Hz)
		111–123	Random Strobe: Fast Strobe ... Slow Strobe
		124	Random Strobe: Slow Strobe
		125–129	Open
		130	Random Opening Pulse: Fast Pulse (3–1 Hz)
		131–143	Random Opening Pulse: Fast Pulse ... Slow Pulse
		144	Random Opening Pulse: Slow Pulse
		145–149	Open
		150	Random Closing Pulse: Fast Pulse (3–1 Hz)
		151–163	Random Closing Pulse: Fast Pulse ... Slow Pulse
		164	Random Closing Pulse: Slow Pulse
		165–169	Open
		170	Burst Pulse: Fast Pulse (3–1 Hz)
		171–183	Burst Pulse: Fast Pulse ... Slow Pulse
		184	Burst Pulse: Slow Pulse
		185–189	Open
		190	Random Burst Pulse: Fast Pulse (3–1 Hz)

CH	Function	DMX	Description
39	Shutter 5 (continued)	191–203	Random Burst Pulse: Fast Pulse ... Slow Pulse
		204	Random Burst Pulse: Slow Pulse
		205–209	Open
		210	Fast Sin Wave (3–1 Hz)
		211–223	Fast Sin Wave ... Slow Sin Wave
		224	Slow Sin Wave
		225–229	Open
		230	Fast Burst
		231–243	Fast Burst ... Slow Burst
		244	Slow Burst
		245–255	Open
40	Strobe Duration 5	0–255	
41	Pattern Dimmer 5	0	Min
		1–254	Min ... Max
		255	Max
42	Tube Pattern Selection 5	0–5	Full On
		6	Move 1 - 1
		7	Move 1 - 2
		8	Move 1 - 3
		9	Move 1 - 4
		10	Move 1 - 5
		11	Move 1 - 6
		12	Move 1 - 7
		13	Move 1 - 8
		14	Move 1 - 9
		15	Move 1 - 10
		16	Move 1 - 11
		17	Move 1 - 12
		18	Move 2 - 1
		19	Move 2 - 2
		20	Move 2 - 3
		21	Move 2 - 4
		22	Move 2 - 5
		23	Move 2 - 6
		24	Move 2 - 7
		25	Move 2 - 8
		26	Move 2 - 9
		27	Move 2 - 10
		28	Move 2 - 11
		29	Move 3 - 1
		30	Move 3 - 2
		31	Move 3 - 3

CH	Function	DMX	Description
42	Tube Pattern Selection 5 (continued)	32	Move 3 - 4
		33	Move 3 - 5
		34	Move 3 - 6
		35	Move 3 - 7
		36	Move 3 - 8
		37	Move 3 - 9
		38	Move 3 - 10
		39	Move 4 - 1
		40	Move 4 - 2
		41	Move 4 - 3
		42	Move 4 - 4
		43	Move 4 - 5
		44	Move 4 - 6
		45	Move 4 - 7
		46	Move 4 - 8
		47	Move 4 - 9
		48	Move 5 - 1
		49	Move 5 - 2
		50	Move 5 - 3
		51	Move 5 - 4
		52	Move 5 - 5
		53	Move 5 - 6
		54	Move 5 - 7
		55	Move 5 - 8
		56	Move 6 - 1
		57	Move 6 - 2
		58	Move 6 - 3
		59	Move 6 - 4
		60	Move 6 - 5
		61	Move 6 - 6
		62	Move 6 - 7
		63	Move 7 - 1
		64	Move 7 - 2
		65	Move 7 - 3
		66	Move 7 - 4
		67	Move 7 - 5
		68	Move 7 - 6
		69	Move 8 - 1
		70	Move 8 - 2
		71	Move 8 - 3
		72	Move 8 - 4
		73	Move 8 - 5

CH	Function	DMX	Description
42	Tube Pattern Selection 5 (continued)	74	Move 9 - 1
		75	Move 9 - 2
		76	Move 9 - 3
		77	Move 9 - 4
		78	Move 10 - 1
		79	Move 10 - 2
		80	Move 10 - 3
		81	Move 11 - 1
		82	Move 11 - 2
		83	2Blocks 1/1 - 1
		84	2Blocks 1/1 - 2
		85	2Blocks 1/1 - 3
		86	2Blocks 1/1 - 4
		87	2Blocks 1/1 - 5
		88	2Blocks 1/1 - 6
		89	2Blocks 1/1 - 7
		90	2Blocks 1/1 - 8
		91	2Blocks 1/1 - 9
		92	2Blocks 1/1 - 10
		93	2Blocks 1/2 - 1
		94	2Blocks 1/2 - 2
		95	2Blocks 1/2 - 3
		96	2Blocks 1/2 - 4
		97	2Blocks 1/2 - 5
		98	2Blocks 1/2 - 6
		99	2Blocks 1/2 - 7
		100	2Blocks 1/2 - 8
		101	2Blocks 1/2 - 9
		102	2Blocks 1/3 - 1
		103	2Blocks 1/3 - 2
		104	2Blocks 1/3 - 3
		105	2Blocks 1/3 - 4
		106	2Blocks 1/3 - 5
		107	2Blocks 1/3 - 6
		108	2Blocks 1/3 - 7
		109	2Blocks 1/3 - 8
		110	2Blocks 1/4 - 1
		111	2Blocks 1/4 - 2
		112	2Blocks 1/4 - 3
		113	2Blocks 1/4 - 4
		114	2Blocks 1/4 - 5
		115	2Blocks 1/4 - 6

CH	Function	DMX	Description
42	Tube Pattern Selection 5 (continued)	116	2Blocks 1/4 - 7
		117	2Blocks 2/1 - 1
		118	2Blocks 2/1 - 2
		119	2Blocks 2/1 - 3
		120	2Blocks 2/1 - 4
		121	2Blocks 2/1 - 5
		122	2Blocks 2/1 - 6
		123	2Blocks 2/1 - 7
		124	2Blocks 2/1 - 8
		125	2Blocks 2/2 - 1
		126	2Blocks 2/2 - 2
		127	2Blocks 2/2 - 3
		128	2Blocks 2/2 - 4
		129	2Blocks 2/2 - 5
		130	2Blocks 2/2 - 6
		131	2Blocks 2/2 - 7
		132	2Blocks 2/3 - 1
		133	2Blocks 2/3 - 2
		134	2Blocks 2/3 - 3
		135	2Blocks 2/3 - 4
		136	2Blocks 2/3 - 5
		137	2Blocks 2/3 - 6
		138	2Blocks 2/4 - 1
		139	2Blocks 2/4 - 2
		140	2Blocks 2/4 - 3
		141	2Blocks 2/4 - 4
		142	2Blocks 2/4 - 5
		143	2Blocks 3/1 - 1
		144	2Blocks 3/1 - 2
		145	2Blocks 3/1 - 3
		146	2Blocks 3/1 - 4
		147	2Blocks 3/1 - 5
		148	2Blocks 3/1 - 6
		149	2Blocks 3/2 - 1
		150	2Blocks 3/2 - 2
		151	2Blocks 3/2 - 3
		152	2Blocks 3/2 - 4
		153	2Blocks 3/2 - 5
		154	2Blocks 3/3 - 1
		155	2Blocks 3/3 - 2
		156	2Blocks 3/3 - 3
		157	2Blocks 3/3 - 4

CH	Function	DMX	Description
42	Tube Pattern Selection 5 (continued)	158	3Blocks 1/1 - 1
		159	3Blocks 1/1 - 2
		160	3Blocks 1/1 - 3
		161	3Blocks 1/1 - 4
		162	3Blocks 1/1 - 5
		163	3Blocks 1/1 - 6
		164	3Blocks 1/1 - 7
		165	3Blocks 1/1 - 8
		166	3Blocks 1/2 - 1
		167	3Blocks 1/2 - 2
		168	3Blocks 1/2 - 3
		169	3Blocks 1/2 - 4
		170	3Blocks 1/2 - 5
		171	3Blocks 1/2 - 6
		172	3Blocks 1/3 - 1
		173	3Blocks 1/3 - 2
		174	3Blocks 1/3 - 3
		175	3Blocks 1/3 - 4
		176	3Blocks 1/4 - 1
		177	3Blocks 1/4 - 2
		178	3Blocks 2/1 - 1
		179	3Blocks 2/1 - 2
		180	3Blocks 2/1 - 3
		181	3Blocks 2/1 - 4
		182	3Blocks 2/1 - 5
		183	3Blocks 2/2 - 1
		184	3Blocks 2/2 - 2
		185	3Blocks 2/2 - 3
		186	3Blocks 3/1 - 1
		187	3Blocks 3/1 - 2
		188	4Blocks 1/1 - 1
		189	4Blocks 1/1 - 2
		190	4Blocks 1/1 - 3
		191	4Blocks 1/1 - 4
		192	4Blocks 1/1 - 5
		193	4Blocks 1/1 - 6
		194	4Blocks 1/2 - 1
		195	4Blocks 1/2 - 2
		196	4Blocks 1/2 - 3
		197	4Blocks 2/1 - 1
		198	4Blocks 2/1 - 2
		199	5Blocks 1/1 - 1

CH	Function	DMX	Description
42	Tube Pattern Selection 5 (continued)	200	5Blocks 1/1 - 2
		201	5Blocks 1/1 - 3
		202	5Blocks 1/1 - 4
		203	6Blocks 1/1 - 1
		204	6Blocks 1/1 - 2
		205	Join 1 - 1
		206	Join 1 - 2
		207	Join 1 - 3
		208	Join 1 - 4
		209	Join 1 - 5
		210	Join 1 - 6
		211	Join 2 - 1
		212	Join 2 - 2
		213	Join 2 - 3
		214	Join 2 - 4
		215	Join 2 - 5
		216	Join 2 - 6
		217	Join 3 - 1
		218	Join 3 - 2
		219	Join 3 - 3
		220	Join 3 - 4
		221	Join 4 - 1
		222	Join 4 - 2
		223	Join 4 - 3
		224	Switch 4 - 1
		225	Switch 4 - 2
		226–231	Fill Out - 1...6
		232–237	Fill In - 1...6
		238	Join 4/1 - 1
		239	Join 4/1 - 2
		240	Join 4/1 - 3
		241	Join 4/1 - 4
		242	Join 4/1 - 5
		243	Join 4/2 - 1
		244	Join 4/2 - 2
		245	Join 4/2 - 3
		246	Join 4/2 - 4
		247	Join 4/2 - 5
		248–255	Full Off
43	Pattern Selection X-fade 5	0–5	No Function
		6–255	1...250s
44	Pattern Speed 5	0–5	No Function

CH	Function	DMX	Description
44	Pattern Speed 5 (continued)	6	Left to Right: Fast
		7–123	Left to Right: Fast ... Slow
		124	Left to Right: Slow
		125–130	No Function
		131	Right to Left: Slow
		132–248	Right to Left: Slow ... Fast
		249	Right to Left: Fast
		250–255	No Function
45	Pattern X-fade 5	0–5	Snap from Cell to Cell
		6	Short Fade
		7–254	Short Fade ... Long Fade
		255	Long Fade
46	Pattern Space 5	0–41	1-Segment Space
		42–84	2-Segment Spaces
		85–127	3-Segment Spaces
		128–170	4-Segment Spaces
		171–213	5-Segment Spaces
		214–255	6-Segment Spaces
47	Group Pattern Dimmer 1		Pattern Dimmer 1
		0	Min
		1–254	Min ... Max
		255	Max
48	Tube Group Pattern Selection		Same as CH 17 in the mode “39CH Easy Mode” (p. 36)
49	Group Pattern Selection X-Fade 1	0–5	No Function
		6–255	1...250s
50	Group Pattern Speed 1	0–5	No Function
		6	Fast Left to Right
		7–123	Fast Left to Right ... Slow Left to Right
		124	Slow Left to Right
		125–130	No Function
		131	Slow Right to Left
		132–248	Slow Right to Left ... Fast Right to Left
		249	Fast Right to Left
		250–255	No Function
51	Group Pattern X-Fade 1	0–5	Snap from Cell to Cell
		6	Short Fade
		7–254	Short Fade ... Long Fade
		255	Long Fade
52	Group Pattern Space 1	0–41	1-Segment Space
		42–84	2-Segment Spaces
		85–127	3-Segment Spaces
		128–170	4-Segment Spaces

CH	Function	DMX	Description
52	Group Pattern Space 1 (continued)	171–213	5-Segment Spaces
		214–255	6-Segment Spaces
53	Dimmer 7	0	Min
		1–254	Min ... Max
		255	Max
54	Shutter 6	0–19	Shutter Close
		20–24	Shutter Open
		25	Fast Strobe (3–1 Hz)
		26–63	Fast Strobe ... Slow Strobe
		64	Slow Strobe
		65–69	Open
		70	Opening Pulse: Fast Pulse (3–1 Hz)
		71–83	Opening Pulse: Fast Pulse ... Slow Pulse
		84	Opening Pulse: Slow Pulse
		85–89	Open
		90	Closing Pulse: Fast Pulse (3–1 Hz)
		91–103	Closing Pulse: Fast Pulse ... Slow Pulse
		104	Closing Pulse: Slow Pulse
		105–109	Open
		110	Random Strobe: Fast Strobe (3–1 Hz)
		111–123	Random Strobe: Fast Strobe ... Slow Strobe
		124	Random Strobe: Slow Strobe
		125–129	Open
		130	Random Opening Pulse: Fast Pulse (3–1 Hz)
		131–143	Random Opening Pulse: Fast Pulse ... Slow Pulse
		144	Random Opening Pulse: Slow Pulse
		145–149	Open
		150	Random Closing Pulse: Fast Pulse (3–1 Hz)
		151–163	Random Closing Pulse: Fast Pulse ... Slow Pulse
		164	Random Closing Pulse: Slow Pulse
		165–169	Open
		170	Burst Pulse: Fast Pulse (3–1 Hz)
		171–183	Burst Pulse: Fast Pulse ... Slow Pulse
		184	Burst Pulse: Slow Pulse
		185–189	Open
		190	Random Burst Pulse: Fast Pulse (3–1 Hz)
		191–203	Random Burst Pulse: Fast Pulse ... Slow Pulse
		204	Random Burst Pulse: Slow Pulse
		205–209	Open
		210	Fast Sin Wave (3–1 Hz)
		211–223	Fast Sin Wave ... Slow Sin Wave
		224	Slow Sin Wave

CH	Function	DMX	Description
54	Shutter 6 (continued)	225–229	Open
		230	Fast Burst
		231–243	Fast Burst ... Slow Burst
		244	Slow Burst
		245–255	Open
55	Strobe Duration 6	0–255	
56	Red		Same as CH 11 in the mode “15CH Simple Mode” (p. 14)
57	Green		Same as CH 12 in the mode “15CH Simple Mode” (p. 15)
58	Blue		Same as CH 13 in the mode “15CH Simple Mode” (p. 15)
59	Color Temperature		Same as CH 14 in the mode “15CH Simple Mode” (p. 15)
60	Color Macro	0–5	No Function
		6–8	Red LED 100%
		9–11	LEE 019 Fire
		12–14	LEE 027 Medium Red
		15–17	LEE 106 Primary Red
		18–20	LEE 020 Med Amber
		21–23	LEE 022 Dark Amber
		24–26	LEE 104 Deep Amber
		27–29	LEE 105 Orange
		30–32	LEE 135 Deep Golden Amber
		33–35	LEE 101 Yellow
		36–38	Green LED 100%
		39–41	LEE 088 Lime Green
		42–44	LEE 089 Moss Green
		45–47	LEE 121 LEE Green
		48–50	LEE 139 Primary Green
		51–53	LEE 738 Jas Green
		54–56	LEE 323 Jade
		57–59	Blue LED 100%
		60–62	LEE 068 Sky Blue
		63–65	LEE 071 Tokyo Blue
		66–68	LEE 118 Light Blue
		69–71	LEE 131 Marine Blue
		72–74	LEE 132 Med Blue
		75–77	LEE 181 Congo Blue
		78–80	LEE 716 Mikkel Blue
		81–83	LEE 002 Rose Pink
		84–86	LEE 036 Med Pink
		87–89	LEE 052 Light Lavender
		90–92	LEE 058 Lavender
		93–95	LEE 113 Magenta
		96–98	LEE 126 Mauve

CH	Function	DMX	Description
60	Color Macro (continued)	99–101	LEE 127 Smokey Pink
		102–104	LEE 343 Special Med Lavender
		105–107	LEE 707 Ultimate Violet
		108–110	LEE 795 Magical Magenta
		111–113	LEE 798 Chrysalis Pink
		114–116	LEE 799 Special KH Lavender
		117–119	Bulb White (2700K)
		120–122	Halogen White (3200K)
		123–125	Neutral White (4200K)
		126–128	Daylight White (5600K)
		129–131	Cold White I (6000K)
		132–134	Cold White II (6300K)
		135–137	White
		138–140	Amber
		141–143	Lime
		144–146	Cyan
		147–149	User Color 1
		150–152	User Color 2
		153–155	User Color 3
		156–158	User Color 4
		159–161	User Color 5
		162–164	Color Jumping Stop
		165	Color Jumping Slow
		166–208	Color Jumping Slow ... Color Jumping Fast
		209	Color Jumping Fast
		210	Color Fading Slow
		211–254	Color Fading Slow ... Color Fading Fast
		255	Color Fading Fast
61	Color Macro X-Fade	0–5	No Function
		6	1/10s
		7–104	1/10s ... 10s
		105	10s
		106	11s
		107–213	11s ... 119s
		214	119s
		215	2m
		216–243	2m ... 4m50s
		244	4m50s
		245	5m
		246–254	5m ... 15m
		255	15m
62	Group Pattern Dimmer 2	0	Min

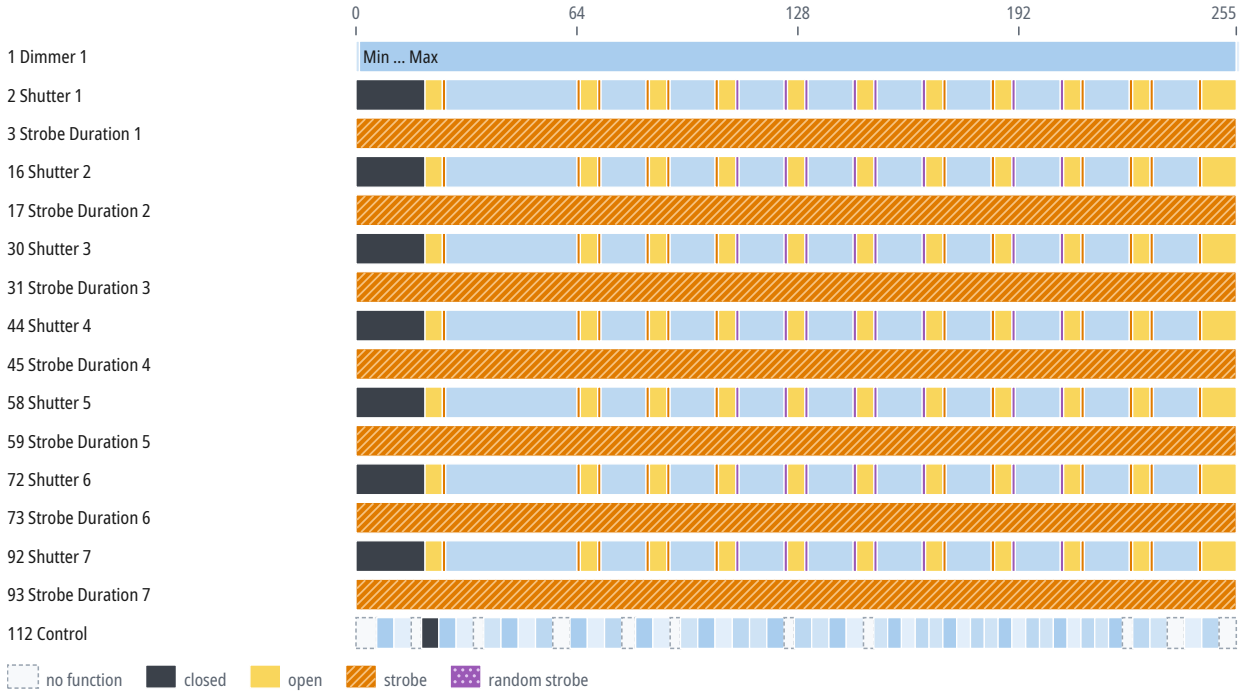
CH	Function	DMX	Description
62	Group Pattern Dimmer 2 (continued)	1–254	Min ... Max
		255	Max
63	RGB Panel Pattern Selection		Same as CH 30 in the mode “39CH Easy Mode” (p. 39)
64	Group Pattern Selection X-Fade 2	0–5	No Function
		6–255	1...250s
65	Group Pattern Speed 2	0–5	No Function
		6	Fast Left to Right
		7–123	Fast Left to Right ... Slow Left to Right
		124	Slow Left to Right
		125–130	No Function
		131	Slow Right to Left
		132–248	Slow Right to Left ... Fast Right to Left
		249	Fast Right to Left
		250–255	No Function
66	Group Pattern X-Fade 2	0–5	Snap from Cell to Cell
		6	Short Fade
		7–254	Short Fade ... Long Fade
		255	Long Fade
67	Group Pattern Space 2	0–41	1-Segment Space
		42–84	2-Segment Spaces
		85–127	3-Segment Spaces
		128–170	4-Segment Spaces
		171–213	5-Segment Spaces
		214–255	6-Segment Spaces
68	Pattern Red		Same as CH 35 in the mode “39CH Easy Mode” (p. 43)
69	Pattern Green		Same as CH 36 in the mode “39CH Easy Mode” (p. 43)
70	Pattern Blue		Same as CH 37 in the mode “39CH Easy Mode” (p. 43)
71	Control		Same as CH 15 in the mode “15CH Simple Mode” (p. 21)

Mode 112CH Pure Mode 8 Bit

If the device receives DMX in this mode but gives no light, check these channels: CH 2 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 16 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 30 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 44 Shutter 4 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 58 Shutter 5 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 72 Shutter 6 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 92 Shutter 7 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 4 Dimmer 255 (the same in each of the 12 cells), CH 18 Dimmer 255 (the same in each of the 12 cells), CH 32 Dimmer 255 (the same in each of the 12 cells), CH 46 Dimmer 255 (the same in each of the 12 cells), CH 60 Dimmer 255 (the same in each of the 12 cells), CH 74 Red 1 255, CH 75 Green 1 255, CH 76 Blue 1 255, CH 77 Red 2 255, CH 78 Green 2 255, CH 79 Blue 2 255, CH 80

Red 3 255, CH 81 Green 3 255, CH 82 Blue 3 255, CH 83 Red 4 255, CH 84 Green 4 255, CH 85 Blue 4 255, CH 86 Red 5 255, CH 87 Green 5 255, CH 88 Blue 5 255, CH 89 Red 6 255, CH 90 Green 6 255, CH 91 Blue 6 255, CH 94 Red 7 255, CH 95 Green 7 255, CH 96 Blue 7 255, CH 97 Red 8 255, CH 98 Green 8 255, CH 99 Blue 8 255, CH 100 Red 9 255, CH 101 Green 9 255, CH 102 Blue 9 255, CH 103 Red 10 255, CH 104 Green 10 255, CH 105 Blue 10 255, CH 106 Red 11 255, CH 107 Green 11 255, CH 108 Blue 11 255, CH 109 Red 12 255, CH 110 Green 12 255, CH 111 Blue 12 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “15CH Simple Mode” (p. 11)
2	Shutter 1		Same as CH 3 in the mode “15CH Simple Mode” (p. 11)
3	Strobe Duration 1	0–255	
4	Dimmer 2	0	Min
		1–254	Min ... Max
		255	Max
16	Shutter 2		Same as CH 6 in the mode “15CH Simple Mode” (p. 12)
17	Strobe Duration 2	0–255	
18	Dimmer 14	0	Min
		1–254	Min ... Max
		255	Max
30	Shutter 3		Same as CH 9 in the mode “15CH Simple Mode” (p. 13)
31	Strobe Duration 3	0–255	
32	Dimmer 26	0	Min
		1–254	Min ... Max
		255	Max
44	Shutter 4		Same as CH 30 in the mode “71CH Standard Mode” (p. 58)
45	Strobe Duration 4	0–255	

CH	Function	DMX	Description
46	Dimmer 38	0	Min
		1–254	Min ... Max
		255	Max
58	Shutter 5		Same as CH 39 in the mode “71CH Standard Mode” (p. 65)
59	Strobe Duration 5	0–255	
60	Dimmer 50	0	Min
		1–254	Min ... Max
		255	Max
72	Shutter 6		Same as CH 54 in the mode “71CH Standard Mode” (p. 73)
73	Strobe Duration 6	0–255	
74	Red 1	0	Min
		1–254	Min ... Max
		255	Max
75	Green 1	0	Min
		1–254	Min ... Max
		255	Max
76	Blue 1	0	Min
		1–254	Min ... Max
		255	Max
77	Red 2	0	Min
		1–254	Min ... Max
		255	Max
78	Green 2	0	Min
		1–254	Min ... Max
		255	Max
79	Blue 2	0	Min
		1–254	Min ... Max
		255	Max
80	Red 3	0	Min
		1–254	Min ... Max
		255	Max
81	Green 3	0	Min
		1–254	Min ... Max
		255	Max
82	Blue 3	0	Min
		1–254	Min ... Max
		255	Max
83	Red 4	0	Min
		1–254	Min ... Max
		255	Max
84	Green 4	0	Min
		1–254	Min ... Max

CH	Function	DMX	Description
84	Green 4 (continued)	255	Max
85	Blue 4	0	Min
		1–254	Min ... Max
		255	Max
86	Red 5	0	Min
		1–254	Min ... Max
		255	Max
87	Green 5	0	Min
		1–254	Min ... Max
		255	Max
88	Blue 5	0	Min
		1–254	Min ... Max
		255	Max
89	Red 6	0	Min
		1–254	Min ... Max
		255	Max
90	Green 6	0	Min
		1–254	Min ... Max
		255	Max
91	Blue 6	0	Min
		1–254	Min ... Max
		255	Max
92	Shutter 7	0–19	Shutter Close
		20–24	Shutter Open
		25	Fast Strobe (3–1 Hz)
		26–63	Fast Strobe ... Slow Strobe
		64	Slow Strobe
		65–69	Open
		70	Opening Pulse: Fast Pulse (3–1 Hz)
		71–83	Opening Pulse: Fast Pulse ... Slow Pulse
		84	Opening Pulse: Slow Pulse
		85–89	Open
		90	Closing Pulse: Fast Pulse (3–1 Hz)
		91–103	Closing Pulse: Fast Pulse ... Slow Pulse
		104	Closing Pulse: Slow Pulse
		105–109	Open
		110	Random Strobe: Fast Strobe (3–1 Hz)
		111–123	Random Strobe: Fast Strobe ... Slow Strobe
		124	Random Strobe: Slow Strobe
		125–129	Open
		130	Random Opening Pulse: Fast Pulse (3–1 Hz)
		131–143	Random Opening Pulse: Fast Pulse ... Slow Pulse

CH	Function	DMX	Description
92	Shutter 7 (continued)	144	Random Opening Pulse: Slow Pulse
		145–149	Open
		150	Random Closing Pulse: Fast Pulse (3–1 Hz)
		151–163	Random Closing Pulse: Fast Pulse ... Slow Pulse
		164	Random Closing Pulse: Slow Pulse
		165–169	Open
		170	Burst Pulse: Fast Pulse (3–1 Hz)
		171–183	Burst Pulse: Fast Pulse ... Slow Pulse
		184	Burst Pulse: Slow Pulse
		185–189	Open
		190	Random Burst Pulse: Fast Pulse (3–1 Hz)
		191–203	Random Burst Pulse: Fast Pulse ... Slow Pulse
		204	Random Burst Pulse: Slow Pulse
		205–209	Open
		210	Fast Sin Wave (3–1 Hz)
		211–223	Fast Sin Wave ... Slow Sin Wave
		224	Slow Sin Wave
		225–229	Open
		230	Fast Burst
		231–243	Fast Burst ... Slow Burst
		244	Slow Burst
		245–255	Open
93	Strobe Duration 7	0–255	
94	Red 7	0	Min
		1–254	Min ... Max
		255	Max
95	Green 7	0	Min
		1–254	Min ... Max
		255	Max
96	Blue 7	0	Min
		1–254	Min ... Max
		255	Max
97	Red 8	0	Min
		1–254	Min ... Max
		255	Max
98	Green 8	0	Min
		1–254	Min ... Max
		255	Max
99	Blue 8	0	Min
		1–254	Min ... Max
		255	Max
100	Red 9	0	Min

CH	Function	DMX	Description
100	Red 9 (continued)	1–254	Min … Max
		255	Max
101	Green 9	0	Min
		1–254	Min … Max
		255	Max
102	Blue 9	0	Min
		1–254	Min … Max
		255	Max
103	Red 10	0	Min
		1–254	Min … Max
		255	Max
104	Green 10	0	Min
		1–254	Min … Max
		255	Max
105	Blue 10	0	Min
		1–254	Min … Max
		255	Max
106	Red 11	0	Min
		1–254	Min … Max
		255	Max
107	Green 11	0	Min
		1–254	Min … Max
		255	Max
108	Blue 11	0	Min
		1–254	Min … Max
		255	Max
109	Red 12	0	Min
		1–254	Min … Max
		255	Max
110	Green 12	0	Min
		1–254	Min … Max
		255	Max
111	Blue 12	0	Min
		1–254	Min … Max
		255	Max
112	Control		Same as CH 15 in the mode “15CH Simple Mode” (p. 21)

CH 4–15: 12 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 4); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	4	2	5	3	6	4	7	5	8	6	9
7	10	8	11	9	12	10	13	11	14	12	15

CH 18–29: 12 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 18); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	18	2	19	3	20	4	21	5	22	6	23
7	24	8	25	9	26	10	27	11	28	12	29

CH 32–43: 12 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 32); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	32	2	33	3	34	4	35	5	36	6	37
7	38	8	39	9	40	10	41	11	42	12	43

CH 46–57: 12 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 46); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	46	2	47	3	48	4	49	5	50	6	51
7	52	8	53	9	54	10	55	11	56	12	57

CH 60–71: 12 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 60); the table below gives each cell's channel numbers.

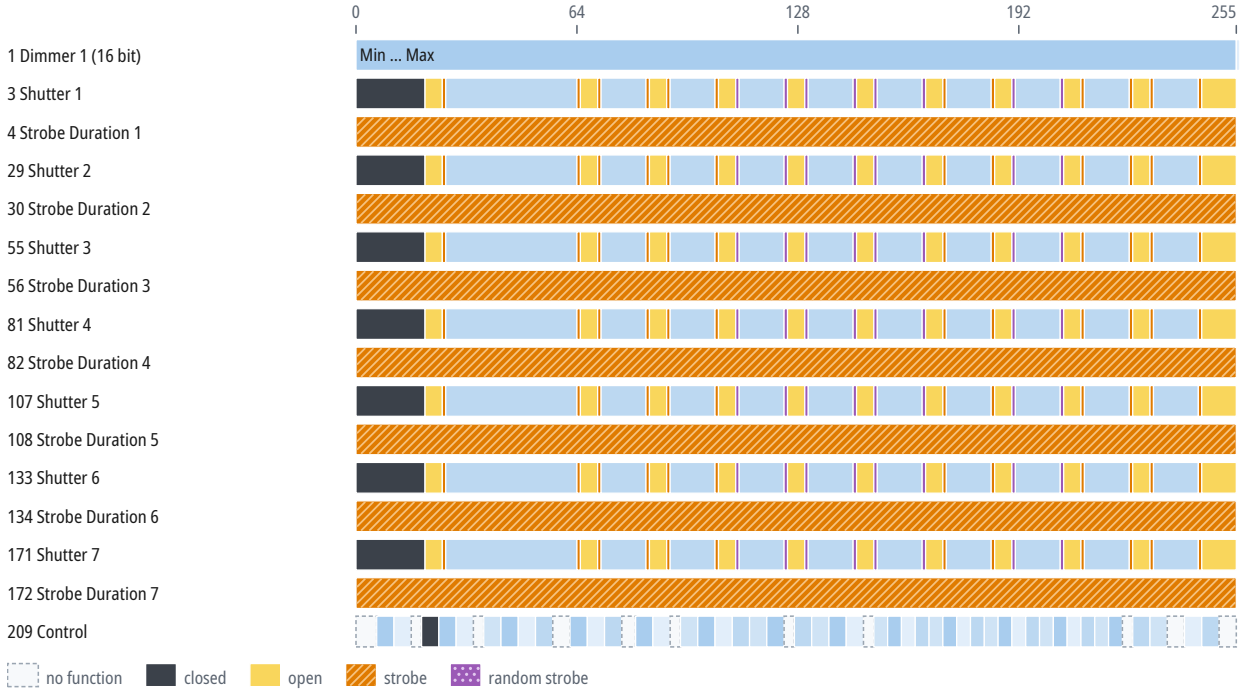
Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	60	2	61	3	62	4	63	5	64	6	65
7	66	8	67	9	68	10	69	11	70	12	71

Mode 209CH Pure Extended Mode 16 Bit

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 3 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 29 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 55 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 81 Shutter 4 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 107 Shutter 5 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 133 Shutter 6 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 171 Shutter 7 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 5 Dimmer 255 (the same in each of the 12 cells), CH 31 Dimmer 255 (the same in each of the 12 cells), CH 57 Dimmer 255 (the same in each of the 12 cells), CH 83 Dimmer 255 (the same in each of the 12 cells), CH 109 Dimmer 255 (the same in each of the 12 cells), CH 135 Red 1 255, CH 137 Green 1 255, CH 139 Blue 1 255, CH 141 Red 2 255, CH 143 Green 2 255, CH 145 Blue 2 255, CH 147 Red 3 255, CH 149 Green 3 255, CH 151 Blue 3 255, CH 153 Red 4 255, CH 155 Green 4 255, CH 157 Blue 4 255, CH 159 Red 5 255, CH 161 Green 5 255, CH 163 Blue 5 255, CH 165 Red 6 255, CH 167 Green 6 255, CH 169 Blue 6 255, CH 173 Red 7 255, CH 175 Green 7 255, CH 177 Blue 7 255, CH 179 Red 8 255, CH 181 Green 8 255, CH 183 Blue 8 255, CH 185 Red 9 255, CH 187 Green 9 255, CH 189 Blue 9 255, CH 191 Red 10 255, CH 193 Green 10 255, CH 195 Blue 10 255, CH 197 Red 11 255, CH 199 Green 11 255, CH 201 Blue 11 255, CH 203 Red 12 255, CH 205 Green 12 255, CH 207 Blue 12 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1	0–255	Min ... Max
		255	Max
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Shutter 1		Same as CH 3 in the mode “15CH Simple Mode” (p. 11)
4	Strobe Duration 1	0–255	
5	Dimmer 2	0–255	Min ... Max
		255	Max
6	Dimmer 2 Fine	0–255	Fine adjustment of CH 5
29	Shutter 2		Same as CH 6 in the mode “15CH Simple Mode” (p. 12)
30	Strobe Duration 2	0–255	
31	Dimmer 14	0–255	Min ... Max
		255	Max
32	Dimmer 14 Fine	0–255	Fine adjustment of CH 31
55	Shutter 3		Same as CH 9 in the mode “15CH Simple Mode” (p. 13)
56	Strobe Duration 3	0–255	
57	Dimmer 26	0–255	Min ... Max
		255	Max
58	Dimmer 26 Fine	0–255	Fine adjustment of CH 57
81	Shutter 4		Same as CH 30 in the mode “71CH Standard Mode” (p. 58)
82	Strobe Duration 4	0–255	
83	Dimmer 38	0–255	Min ... Max
		255	Max
84	Dimmer 38 Fine	0–255	Fine adjustment of CH 83

CH	Function	DMX	Description
107	Shutter 5		Same as CH 39 in the mode “71CH Standard Mode” (p. 65)
108	Strobe Duration 5	0–255	
109	Dimmer 50	0–255	Min … Max
		255	Max
110	Dimmer 50 Fine	0–255	Fine adjustment of CH 109
133	Shutter 6		Same as CH 54 in the mode “71CH Standard Mode” (p. 73)
134	Strobe Duration 6	0–255	
135	Red 1	0–255	Min … Max
		255	Max
136	Red 1 Fine	0–255	Fine adjustment of CH 135
137	Green 1	0–255	Min … Max
		255	Max
138	Green 1 Fine	0–255	Fine adjustment of CH 137
139	Blue 1	0–255	Min … Max
		255	Max
140	Blue 1 Fine	0–255	Fine adjustment of CH 139
141	Red 2	0–255	Min … Max
		255	Max
142	Red 2 Fine	0–255	Fine adjustment of CH 141
143	Green 2	0–255	Min … Max
		255	Max
144	Green 2 Fine	0–255	Fine adjustment of CH 143
145	Blue 2	0–255	Min … Max
		255	Max
146	Blue 2 Fine	0–255	Fine adjustment of CH 145
147	Red 3	0–255	Min … Max
		255	Max
148	Red 3 Fine	0–255	Fine adjustment of CH 147
149	Green 3	0–255	Min … Max
		255	Max
150	Green 3 Fine	0–255	Fine adjustment of CH 149
151	Blue 3	0–255	Min … Max
		255	Max
152	Blue 3 Fine	0–255	Fine adjustment of CH 151
153	Red 4	0–255	Min … Max
		255	Max
154	Red 4 Fine	0–255	Fine adjustment of CH 153
155	Green 4	0–255	Min … Max
		255	Max
156	Green 4 Fine	0–255	Fine adjustment of CH 155
157	Blue 4	0–255	Min … Max

CH	Function	DMX	Description
157	Blue 4 (continued)	255	Max
158	Blue 4 Fine	0–255	Fine adjustment of CH 157
159	Red 5	0–255	Min ... Max
		255	Max
160	Red 5 Fine	0–255	Fine adjustment of CH 159
161	Green 5	0–255	Min ... Max
		255	Max
162	Green 5 Fine	0–255	Fine adjustment of CH 161
163	Blue 5	0–255	Min ... Max
		255	Max
164	Blue 5 Fine	0–255	Fine adjustment of CH 163
165	Red 6	0–255	Min ... Max
		255	Max
166	Red 6 Fine	0–255	Fine adjustment of CH 165
167	Green 6	0–255	Min ... Max
		255	Max
168	Green 6 Fine	0–255	Fine adjustment of CH 167
169	Blue 6	0–255	Min ... Max
		255	Max
170	Blue 6 Fine	0–255	Fine adjustment of CH 169
171	Shutter 7		Same as CH 92 in the mode “112CH Pure Mode 8 Bit” (p. 79)
172	Strobe Duration 7	0–255	
173	Red 7	0–255	Min ... Max
		255	Max
174	Red 7 Fine	0–255	Fine adjustment of CH 173
175	Green 7	0–255	Min ... Max
		255	Max
176	Green 7 Fine	0–255	Fine adjustment of CH 175
177	Blue 7	0–255	Min ... Max
		255	Max
178	Blue 7 Fine	0–255	Fine adjustment of CH 177
179	Red 8	0–255	Min ... Max
		255	Max
180	Red 8 Fine	0–255	Fine adjustment of CH 179
181	Green 8	0–255	Min ... Max
		255	Max
182	Green 8 Fine	0–255	Fine adjustment of CH 181
183	Blue 8	0–255	Min ... Max
		255	Max
184	Blue 8 Fine	0–255	Fine adjustment of CH 183
185	Red 9	0–255	Min ... Max

CH	Function	DMX	Description
185	Red 9 (continued)	255	Max
186	Red 9 Fine	0–255	Fine adjustment of CH 185
187	Green 9	0–255	Min ... Max
		255	Max
188	Green 9 Fine	0–255	Fine adjustment of CH 187
189	Blue 9	0–255	Min ... Max
		255	Max
190	Blue 9 Fine	0–255	Fine adjustment of CH 189
191	Red 10	0–255	Min ... Max
		255	Max
192	Red 10 Fine	0–255	Fine adjustment of CH 191
193	Green 10	0–255	Min ... Max
		255	Max
194	Green 10 Fine	0–255	Fine adjustment of CH 193
195	Blue 10	0–255	Min ... Max
		255	Max
196	Blue 10 Fine	0–255	Fine adjustment of CH 195
197	Red 11	0–255	Min ... Max
		255	Max
198	Red 11 Fine	0–255	Fine adjustment of CH 197
199	Green 11	0–255	Min ... Max
		255	Max
200	Green 11 Fine	0–255	Fine adjustment of CH 199
201	Blue 11	0–255	Min ... Max
		255	Max
202	Blue 11 Fine	0–255	Fine adjustment of CH 201
203	Red 12	0–255	Min ... Max
		255	Max
204	Red 12 Fine	0–255	Fine adjustment of CH 203
205	Green 12	0–255	Min ... Max
		255	Max
206	Green 12 Fine	0–255	Fine adjustment of CH 205
207	Blue 12	0–255	Min ... Max
		255	Max
208	Blue 12 Fine	0–255	Fine adjustment of CH 207
209	Control		Same as CH 15 in the mode “15CH Simple Mode” (p. 21)

CH 5–28: 12 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 5–6); the table below gives each cell's channel numbers.

Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine
1	5	6	2	7	8	3	9	10	4	11	12
5	13	14	6	15	16	7	17	18	8	19	20
9	21	22	10	23	24	11	25	26	12	27	28

CH 31–54: 12 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 31–32); the table below gives each cell's channel numbers.

Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine
1	31	32	2	33	34	3	35	36	4	37	38
5	39	40	6	41	42	7	43	44	8	45	46
9	47	48	10	49	50	11	51	52	12	53	54

CH 57–80: 12 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 57–58); the table below gives each cell's channel numbers.

Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine
1	57	58	2	59	60	3	61	62	4	63	64
5	65	66	6	67	68	7	69	70	8	71	72
9	73	74	10	75	76	11	77	78	12	79	80

CH 83–106: 12 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 83–84); the table below gives each cell's channel numbers.

Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine
1	83	84	2	85	86	3	87	88	4	89	90
5	91	92	6	93	94	7	95	96	8	97	98
9	99	100	10	101	102	11	103	104	12	105	106

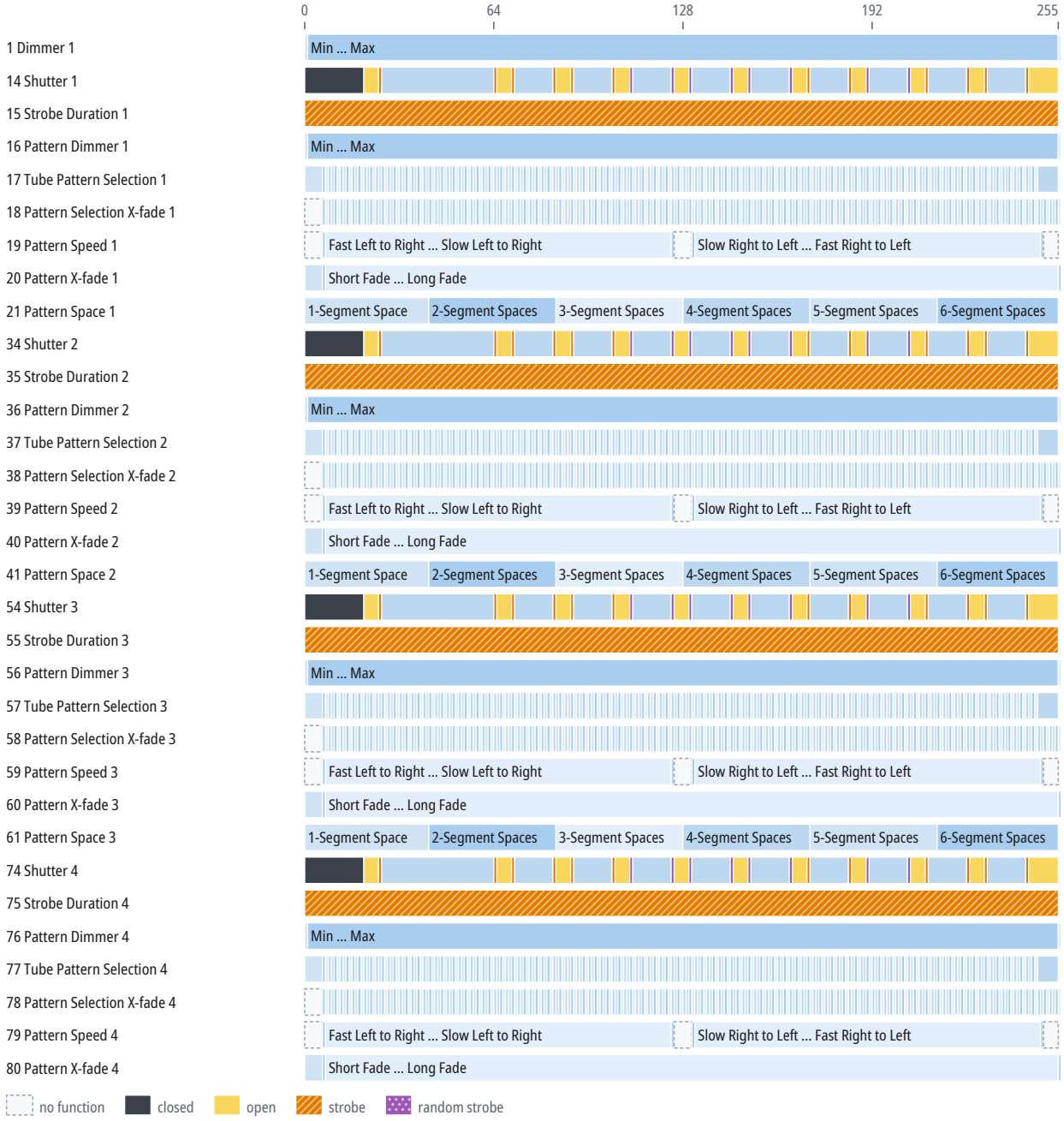
CH 109–132: 12 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 109–110); the table below gives each cell's channel numbers.

Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine
1	109	110	2	111	112	3	113	114	4	115	116
5	117	118	6	119	120	7	121	122	8	123	124
9	125	126	10	127	128	11	129	130	12	131	132

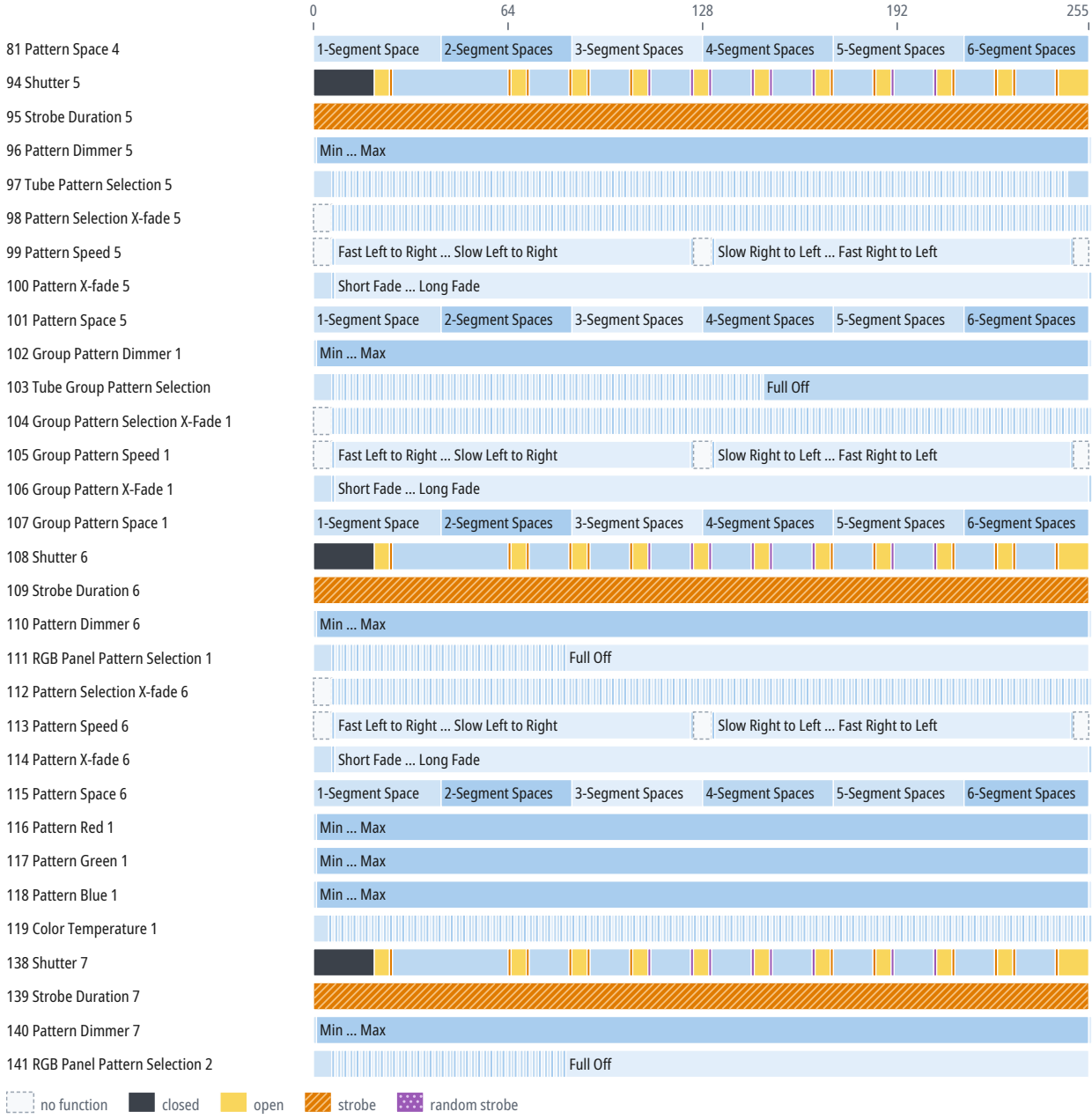
Mode 178CH Full Access Mode

If the device receives DMX in this mode but gives no light, check these channels: CH 14 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 34 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 54 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 74 Shutter 4 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 94 Shutter 5 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 108 Shutter 6 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 138 Shutter 7 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255 (the same in each of the 13 cells), CH 22 Dimmer 255 (the same in each of the 12 cells), CH 42 Dimmer 255 (the same in each of the 12 cells), CH 62 Dimmer 255 (the same in each of the 12 cells), CH 82 Dimmer 255 (the same in each of the 12 cells), CH 116 Pattern Red 1 255, CH 117 Pattern Green 1 255, CH 118 Pattern Blue 1 255, CH 120 Red 1 255, CH 121 Green 1 255, CH 122 Blue 1 255, CH 123 Red 2 255, CH 124 Green 2 255, CH 125 Blue 2 255, CH 126 Red 3 255, CH 127 Green 3 255, CH 128 Blue 3 255, CH 129 Red 4 255, CH 130 Green 4 255, CH 131 Blue 4 255, CH 132 Red 5 255, CH 133 Green 5 255, CH 134 Blue 5 255, CH 135 Red 6 255, CH 136 Green 6 255, CH 137 Blue 6 255, CH 146 Pattern Red 2 255, CH 147 Pattern Green 2 255, CH 148 Pattern Blue 2 255, CH 150 Red 7 255, CH 151 Green 7 255, CH 152 Blue 7 255, CH 153 Red 8 255, CH 154 Green 8 255, CH 155 Blue 8 255, CH 156 Red 9 255, CH 157 Green 9 255, CH 158 Blue 9 255, CH 159 Red 10 255, CH 160 Green 10 255, CH 161 Blue 10 255, CH 162 Red 11 255, CH 163 Green 11 255, CH 164 Blue 11 255, CH 165 Red 12 255, CH 166 Green 12 255, CH 167 Blue 12 255.

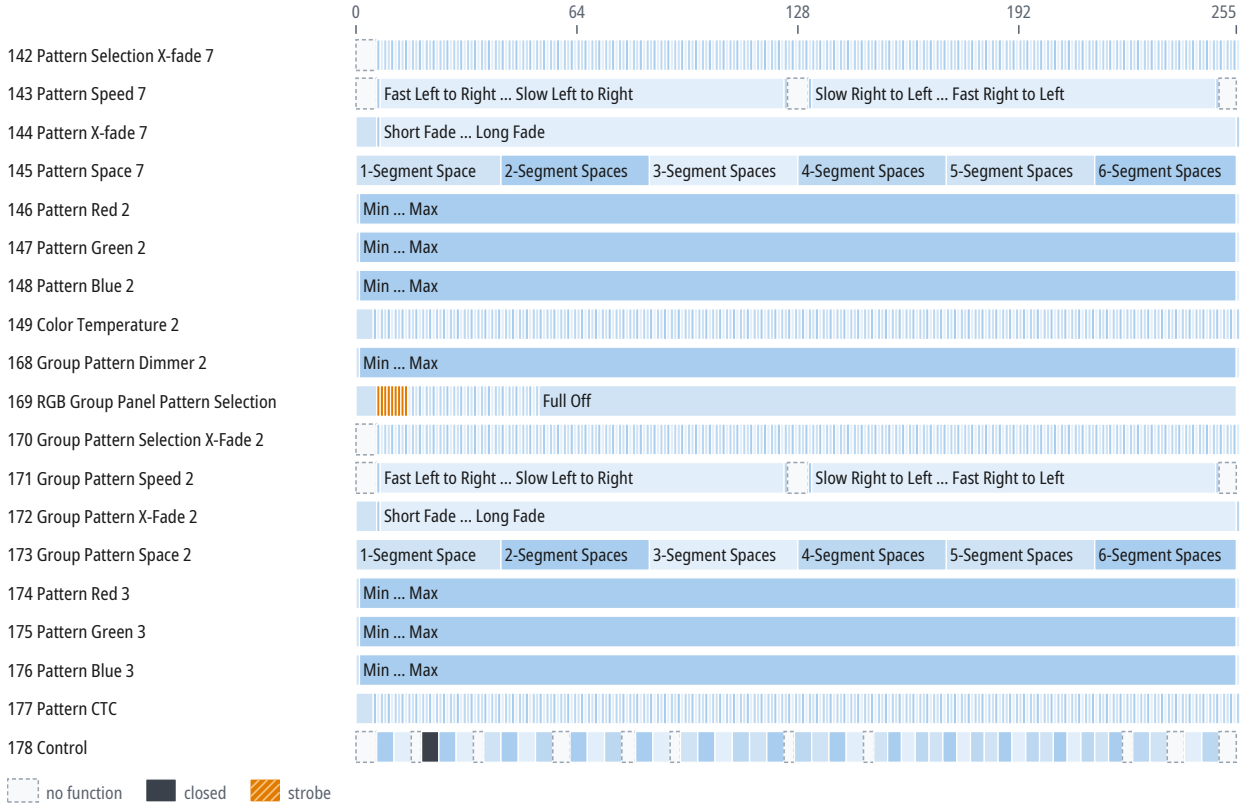
Channel functions at a glance



Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1	0	Min
		1–254	Min ... Max
		255	Max
14	Shutter 1		Same as CH 3 in the mode “15CH Simple Mode” (p. 11)
15	Strobe Duration 1	0–255	
16	Pattern Dimmer 1		Same as CH 5 in the mode “39CH Easy Mode” (p. 24)
17	Tube Pattern Selection 1		Same as CH 6 in the mode “39CH Easy Mode” (p. 24)
18	Pattern Selection X-fade 1		Same as CH 7 in the mode “39CH Easy Mode” (p. 30)
19	Pattern Speed 1		Same as CH 8 in the mode “71CH Standard Mode” (p. 51)
20	Pattern X-fade 1		Same as CH 9 in the mode “39CH Easy Mode” (p. 30)
21	Pattern Space 1		Same as CH 10 in the mode “39CH Easy Mode” (p. 30)
22	Dimmer 14	0	Min
		1–254	Min ... Max
		255	Max
34	Shutter 2		Same as CH 6 in the mode “15CH Simple Mode” (p. 12)
35	Strobe Duration 2	0–255	
36	Pattern Dimmer 2		Same as CH 14 in the mode “39CH Easy Mode” (p. 30)
37	Tube Pattern Selection 2		Same as CH 15 in the mode “39CH Easy Mode” (p. 30)
38	Pattern Selection X-fade 2		Same as CH 16 in the mode “39CH Easy Mode” (p. 36)
39	Pattern Speed 2	0–5	No Function

CH	Function	DMX	Description
39	Pattern Speed 2 (continued)	6	Fast Left to Right
		7–123	Fast Left to Right ... Slow Left to Right
		124	Slow Left to Right
		125–130	No Function
		131	Slow Right to Left
		132–248	Slow Right to Left ... Fast Right to Left
		249	Fast Right to Left
		250–255	No Function
40	Pattern X-fade 2		Same as CH 20 in the mode “39CH Easy Mode” (p. 39)
41	Pattern Space 2		Same as CH 21 in the mode “39CH Easy Mode” (p. 39)
42	Dimmer 26	0	Min
		1–254	Min ... Max
		255	Max
54	Shutter 3		Same as CH 9 in the mode “15CH Simple Mode” (p. 13)
55	Strobe Duration 3	0–255	
56	Pattern Dimmer 3		Same as CH 29 in the mode “39CH Easy Mode” (p. 39)
57	Tube Pattern Selection 3		Same as CH 24 in the mode “71CH Standard Mode” (p. 52)
58	Pattern Selection X-fade 3		Same as CH 31 in the mode “39CH Easy Mode” (p. 42)
59	Pattern Speed 3	0–5	No Function
		6	Fast Left to Right
		7–123	Fast Left to Right ... Slow Left to Right
		124	Slow Left to Right
		125–130	No Function
		131	Slow Right to Left
		132–248	Slow Right to Left ... Fast Right to Left
		249	Fast Right to Left
		250–255	No Function
60	Pattern X-fade 3		Same as CH 33 in the mode “39CH Easy Mode” (p. 43)
61	Pattern Space 3		Same as CH 34 in the mode “39CH Easy Mode” (p. 43)
62	Dimmer 38	0	Min
		1–254	Min ... Max
		255	Max
74	Shutter 4		Same as CH 30 in the mode “71CH Standard Mode” (p. 58)
75	Strobe Duration 4	0–255	
76	Pattern Dimmer 4		Same as CH 32 in the mode “71CH Standard Mode” (p. 59)
77	Tube Pattern Selection 4		Same as CH 33 in the mode “71CH Standard Mode” (p. 59)
78	Pattern Selection X-fade 4		Same as CH 34 in the mode “71CH Standard Mode” (p. 64)
79	Pattern Speed 4	0–5	No Function
		6	Fast Left to Right
		7–123	Fast Left to Right ... Slow Left to Right
		124	Slow Left to Right
		125–130	No Function

CH	Function	DMX	Description
79	Pattern Speed 4 (continued)	131	Slow Right to Left
		132–248	Slow Right to Left ... Fast Right to Left
		249	Fast Right to Left
		250–255	No Function
80	Pattern X-fade 4		Same as CH 36 in the mode “71CH Standard Mode” (p. 64)
81	Pattern Space 4		Same as CH 37 in the mode “71CH Standard Mode” (p. 65)
82	Dimmer 50	0	Min
		1–254	Min ... Max
		255	Max
94	Shutter 5		Same as CH 39 in the mode “71CH Standard Mode” (p. 65)
95	Strobe Duration 5	0–255	
96	Pattern Dimmer 5		Same as CH 41 in the mode “71CH Standard Mode” (p. 66)
97	Tube Pattern Selection 5		Same as CH 42 in the mode “71CH Standard Mode” (p. 66)
98	Pattern Selection X-fade 5		Same as CH 43 in the mode “71CH Standard Mode” (p. 71)
99	Pattern Speed 5	0–5	No Function
		6	Fast Left to Right
		7–123	Fast Left to Right ... Slow Left to Right
		124	Slow Left to Right
		125–130	No Function
		131	Slow Right to Left
		132–248	Slow Right to Left ... Fast Right to Left
		249	Fast Right to Left
		250–255	No Function
100	Pattern X-fade 5		Same as CH 45 in the mode “71CH Standard Mode” (p. 72)
101	Pattern Space 5		Same as CH 46 in the mode “71CH Standard Mode” (p. 72)
102	Group Pattern Dimmer 1	0	Min
		1–254	Min ... Max
		255	Max
103	Tube Group Pattern Selection		Same as CH 17 in the mode “39CH Easy Mode” (p. 36)
104	Group Pattern Selection X-Fade 1		Same as CH 49 in the mode “71CH Standard Mode” (p. 72)
105	Group Pattern Speed 1		Same as CH 50 in the mode “71CH Standard Mode” (p. 72)
106	Group Pattern X-Fade 1		Same as CH 51 in the mode “71CH Standard Mode” (p. 72)
107	Group Pattern Space 1		Same as CH 52 in the mode “71CH Standard Mode” (p. 72)
108	Shutter 6		Same as CH 54 in the mode “71CH Standard Mode” (p. 73)
109	Strobe Duration 6	0–255	
110	Pattern Dimmer 6	0	Min
		1–254	Min ... Max
		255	Max
111	RGB Panel Pattern Selection 1	0–5	Full On
		6	Move 1 - 1
		7	Move 1 - 2

CH	Function	DMX	Description
111	RGB Panel Pattern Selection 1 (continued)	8	Move 1 - 3
		9	Move 1 - 4
		10	Move 1 - 5
		11	Move 1 - 6
		12	Move 2 - 1
		13	Move 2 - 2
		14	Move 2 - 3
		15	Move 2 - 4
		16	Move 2 - 5
		17	Move 3 - 1
		18	Move 3 - 2
		19	Move 3 - 3
		20	Move 3 - 4
		21	Move 4 - 1
		22	Move 4 - 2
		23	Move 4 - 3
		24	Move 5 - 1
		25	Move 5 - 2
		26	Wave 6 - 1
		27	Wave 6 - 2
		28	Wave 6 - 3
		29	Wave 6 - 4
		30	Wave 6 - 5
		31	Wave 6 - 6
		32	Wave 6 - 7
		33	Wave 6 - 8
		34	Wave 6 - 9
		35	Wave 6 - 10
		36	Wave 6 - 11
		37	Wave 5 - 1
		38	Wave 5 - 2
		39	Wave 5 - 3
		40	Wave 5 - 4
		41	Wave 5 - 5
		42	Wave 5 - 6
		43	Wave 5 - 7
		44	Wave 5 - 8
		45	Wave 5 - 9
		46	Wave 5 - 10
		47	Wave 4 - 1
		48	Wave 4 - 2

CH	Function	DMX	Description
111	RGB Panel Pattern Selection 1 (continued)	49	Wave 4 - 3
		50	Wave 4 - 4
		51	Wave 4 - 5
		52	Wave 4 - 6
		53	Wave 4 - 7
		54	Wave 4 - 8
		55	Wave 4 - 9
		56	Wave 3 - 1
		57	Wave 3 - 2
		58	Wave 3 - 3
		59	Wave 3 - 4
		60	Wave 3 - 5
		61	Wave 3 - 6
		62	Wave 3 - 7
		63	Wave 3 - 8
		64	2Blocks 1/1 - 1
		65	2Blocks 1/1 - 2
		66	2Blocks 1/1 - 3
		67	2Blocks 1/1 - 4
		68	2Blocks 2/1 - 1
		69	2Blocks 2/1 - 2
		70	3Blocks 3/1 - 1
		71	3Blocks 3/1 - 2
		72	Cross 1 - 1
		73	Cross 1 - 2
		74	Cross 1 - 3
		75	Cross 1 - 4
		76	Cross 1 - 6
		77	Cross 1 - 7
		78	Cross 2 - 1
		79	Cross 2 - 2
		80	Cross 2 - 3
		81	Cross 2 - 4
		82	Cross 2 - 5
		83–255	Full Off
112	Pattern Selection X-fade 6	0–5	No Function
		6–255	1...250s
113	Pattern Speed 6	0–5	No Function
		6	Fast Left to Right
		7–123	Fast Left to Right ... Slow Left to Right
		124	Slow Left to Right

CH	Function	DMX	Description
113	Pattern Speed 6 (continued)	125–130	No Function
		131	Slow Right to Left
		132–248	Slow Right to Left ... Fast Right to Left
		249	Fast Right to Left
		250–255	No Function
114	Pattern X-fade 6	0–5	Snap from Cell to Cell
		6	Short Fade
		7–254	Short Fade ... Long Fade
		255	Long Fade
115	Pattern Space 6	0–41	1-Segment Space
		42–84	2-Segment Spaces
		85–127	3-Segment Spaces
		128–170	4-Segment Spaces
		171–213	5-Segment Spaces
		214–255	6-Segment Spaces
116	Pattern Red 1	0	Min
		1–254	Min ... Max
		255	Max
117	Pattern Green 1	0	Min
		1–254	Min ... Max
		255	Max
118	Pattern Blue 1	0	Min
		1–254	Min ... Max
		255	Max
119	Color Temperature 1	0–4	7000 K
		5	2000K
		6	2020K
		7	2041K
		8	2061K
		9	2081K
		10	2102K
		11	2122K
		12	2143K
		13	2163K
		14	2183K
		15	2204K
		16	2224K
		17	2244K
		18	2265K
		19	2285K
		20	2305K

CH	Function	DMX	Description
119	Color Temperature 1 (continued)	21	2326K
		22	2346K
		23	2367K
		24	2387K
		25	2407K
		26	2428K
		27	2448K
		28	2468K
		29	2489K
		30	2509K
		31	2529K
		32	2550K
		33	2570K
		34	2590K
		35	2611K
		36	2631K
		37	2652K
		38	2672K
		39	2692K
		40	2713K
		41	2733K
		42	2753K
		43	2774K
		44	2794K
		45	2814K
		46	2835K
		47	2855K
		48	2876K
		49	2896K
		50	2916K
		51	2937K
		52	2957K
		53	2977K
		54	2998K
		55	3018K
		56	3038K
		57	3059K
		58	3079K
		59	3100K
		60	3120K
		61	3140K
		62	3161K

CH	Function	DMX	Description
119	Color Temperature 1 (continued)	63	3181K
		64	3201K
		65	3222K
		66	3242K
		67	3262K
		68	3283K
		69	3303K
		70	3324K
		71	3344K
		72	3364K
		73	3385K
		74	3405K
		75	3425K
		76	3446K
		77	3466K
		78	3486K
		79	3507K
		80	3527K
		81	3548K
		82	3568K
		83	3588K
		84	3609K
		85	3629K
		86	3649K
		87	3670K
		88	3690K
		89	3710K
		90	3731K
		91	3751K
		92	3771K
		93	3792K
		94	3812K
		95	3833K
		96	3853K
		97	3873K
		98	3894K
		99	3914K
		100	3934K
		101	3955K
		102	3975K
		103	3995K
		104	4016K

CH	Function	DMX	Description
119	Color Temperature 1 (continued)	105	4036K
		106	4057K
		107	4077K
		108	4097K
		109	4118K
		110	4138K
		111	4158K
		112	4179K
		113	4199K
		114	4219K
		115	4240K
		116	4260K
		117	4281K
		118–119	4301K
		120	4342K
		121	4362K
		122	4382K
		123	4403K
		124	4423K
		125	4443K
		126	4464K
		127	4484K
		128	4505K
		129	4525K
		130	4545K
		131	4566K
		132	4586K
		133	4606K
		134	4627K
		135	4647K
		136	4667K
		137	4688K
		138	4708K
		139	4729K
		140	4749K
		141	4769K
		142	4790K
		143	4810K
		144	4830K
		145	4851K
		146	4871K
		147	4891K

CH	Function	DMX	Description
119	Color Temperature 1 (continued)	148	4912K
		149	4932K
		150	4952K
		151	4973K
		152	4993K
		153	5014K
		154	5034K
		155	5054K
		156	5075K
		157	5095K
		158	5115K
		159	5136K
		160	5156K
		161	5176K
		162	5197K
		163	5217K
		164	5238K
		165	5258K
		166	5278K
		167	5299K
		168	5319K
		169	5339K
		170	5360K
		171	5380K
		172	5400K
		173	5421K
		174	5441K
		175	5462K
		176	5482K
		177	5502K
		178	5523K
		179	5543K
		180	5563K
		181	5584K
		182	5604K
		183	5624K
		184	5645K
		185	5665K
		186	5686K
		187	5706K
		188	5726K
		189	5747K

CH	Function	DMX	Description
119	Color Temperature 1 (continued)	190	5767K
		191	5787K
		192	5808K
		193	5828K
		194	5848K
		195	5869K
		196	5889K
		197	5910K
		198	5930K
		199	5950K
		200	5971K
		201	5991K
		202	6011K
		203	6032K
		204	6052K
		205	6072K
		206	6093K
		207	6113K
		208	6133K
		209	6154K
		210	6174K
		211	6195K
		212	6215K
		213	6235K
		214	6256K
		215	6276K
		216	6296K
		217	6317K
		218	6337K
		219	6357K
		220	6378K
		221	6398K
		222	6419K
		223	6439K
		224	6459K
		225	6480K
		226	6500K
		227	6621K
		228	6741K
		229	6862K
		230	6983K
		231	7103K

CH	Function	DMX	Description
119	Color Temperature 1 (continued)	232	7224K
		233	7345K
		234	7466K
		235	7586K
		236	7707K
		237	7828K
		238	7948K
		239	8069K
		240	8190K
		241	8310K
		242	8431K
		243	8552K
		244	8672K
		245	8793K
		246	8914K
		247	9034K
		248	9155K
		249	9276K
		250	9397K
		251	9517K
		252	9638K
		253	9759K
		254	9879K
		255	10000K
120	Red 1		Same as CH 74 in the mode “112CH Pure Mode 8 Bit” (p. 78)
121	Green 1		Same as CH 75 in the mode “112CH Pure Mode 8 Bit” (p. 78)
122	Blue 1		Same as CH 76 in the mode “112CH Pure Mode 8 Bit” (p. 78)
123	Red 2		Same as CH 77 in the mode “112CH Pure Mode 8 Bit” (p. 78)
124	Green 2		Same as CH 78 in the mode “112CH Pure Mode 8 Bit” (p. 78)
125	Blue 2		Same as CH 79 in the mode “112CH Pure Mode 8 Bit” (p. 78)
126	Red 3		Same as CH 80 in the mode “112CH Pure Mode 8 Bit” (p. 78)
127	Green 3		Same as CH 81 in the mode “112CH Pure Mode 8 Bit” (p. 78)
128	Blue 3		Same as CH 82 in the mode “112CH Pure Mode 8 Bit” (p. 78)
129	Red 4		Same as CH 83 in the mode “112CH Pure Mode 8 Bit” (p. 78)
130	Green 4		Same as CH 84 in the mode “112CH Pure Mode 8 Bit” (p. 78)
131	Blue 4		Same as CH 85 in the mode “112CH Pure Mode 8 Bit” (p. 79)
132	Red 5		Same as CH 86 in the mode “112CH Pure Mode 8 Bit” (p. 79)
133	Green 5		Same as CH 87 in the mode “112CH Pure Mode 8 Bit” (p. 79)
134	Blue 5		Same as CH 88 in the mode “112CH Pure Mode 8 Bit” (p. 79)
135	Red 6		Same as CH 89 in the mode “112CH Pure Mode 8 Bit” (p. 79)
136	Green 6		Same as CH 90 in the mode “112CH Pure Mode 8 Bit” (p. 79)
137	Blue 6		Same as CH 91 in the mode “112CH Pure Mode 8 Bit” (p. 79)

CH	Function	DMX	Description
138	Shutter 7		Same as CH 92 in the mode “112CH Pure Mode 8 Bit” (p. 79)
139	Strobe Duration 7	0–255	
140	Pattern Dimmer 7	0	Min
		1–254	Min ... Max
		255	Max
141	RGB Panel Pattern Selection 2	0–5	Full On
		6	Move 1 - 1
		7	Move 1 - 2
		8	Move 1 - 3
		9	Move 1 - 4
		10	Move 1 - 5
		11	Move 1 - 6
		12	Move 2 - 1
		13	Move 2 - 2
		14	Move 2 - 3
		15	Move 2 - 4
		16	Move 2 - 5
		17	Move 3 - 1
		18	Move 3 - 2
		19	Move 3 - 3
		20	Move 3 - 4
		21	Move 4 - 1
		22	Move 4 - 2
		23	Move 4 - 3
		24	Move 5 - 1
		25	Move 5 - 2
		26	Wave 6 - 1
		27	Wave 6 - 2
		28	Wave 6 - 3
		29	Wave 6 - 4
		30	Wave 6 - 5
		31	Wave 6 - 6
		32	Wave 6 - 7
		33	Wave 6 - 8
		34	Wave 6 - 9
		35	Wave 6 - 10
		36	Wave 6 - 11
		37	Wave 5 - 1
		38	Wave 5 - 2
		39	Wave 5 - 3
		40	Wave 5 - 4
		41	Wave 5 - 5

CH	Function	DMX	Description
141	RGB Panel Pattern Selection 2 (continued)	42	Wave 5 - 6
		43	Wave 5 - 7
		44	Wave 5 - 8
		45	Wave 5 - 9
		46	Wave 5 - 10
		47	Wave 4 - 1
		48	Wave 4 - 2
		49	Wave 4 - 3
		50	Wave 4 - 4
		51	Wave 4 - 5
		52	Wave 4 - 6
		53	Wave 4 - 7
		54	Wave 4 - 8
		55	Wave 4 - 9
		56	Wave 3 - 1
		57	Wave 3 - 2
		58	Wave 3 - 3
		59	Wave 3 - 4
		60	Wave 3 - 5
		61	Wave 3 - 6
		62	Wave 3 - 7
		63	Wave 3 - 8
		64	2Blocks 1/1 - 1
		65	2Blocks 1/1 - 2
		66	2Blocks 1/1 - 3
		67	2Blocks 1/1 - 4
		68	2Blocks 2/1 - 1
		69	2Blocks 2/1 - 2
		70	3Blocks 3/1 - 1
		71	3Blocks 3/1 - 2
		72	Cross 1 - 1
		73	Cross 1 - 2
		74	Cross 1 - 3
		75	Cross 1 - 4
		76	Cross 1 - 6
		77	Cross 1 - 7
		78	Cross 2 - 1
		79	Cross 2 - 2
		80	Cross 2 - 3
		81	Cross 2 - 4
		82	Cross 2 - 5
		83–255	Full Off

CH	Function	DMX	Description
142	Pattern Selection X-fade 7	0–5	No Function
		6–255	1...250s
143	Pattern Speed 7	0–5	No Function
		6	Fast Left to Right
		7–123	Fast Left to Right ... Slow Left to Right
		124	Slow Left to Right
		125–130	No Function
		131	Slow Right to Left
		132–248	Slow Right to Left ... Fast Right to Left
		249	Fast Right to Left
		250–255	No Function
144	Pattern X-fade 7	0–5	Snap from Cell to Cell
		6	Short Fade
		7–254	Short Fade ... Long Fade
		255	Long Fade
145	Pattern Space 7	0–41	1-Segment Space
		42–84	2-Segment Spaces
		85–127	3-Segment Spaces
		128–170	4-Segment Spaces
		171–213	5-Segment Spaces
		214–255	6-Segment Spaces
146	Pattern Red 2	0	Min
		1–254	Min ... Max
		255	Max
147	Pattern Green 2	0	Min
		1–254	Min ... Max
		255	Max
148	Pattern Blue 2	0	Min
		1–254	Min ... Max
		255	Max
149	Color Temperature 2	0–4	7000 K
		5	2000K
		6	2020K
		7	2041K
		8	2061K
		9	2081K
		10	2102K
		11	2122K
		12	2143K
		13	2163K
		14	2183K
		15	2204K

CH	Function	DMX	Description
149	Color Temperature 2 (continued)	16	2224K
		17	2244K
		18	2265K
		19	2285K
		20	2305K
		21	2326K
		22	2346K
		23	2367K
		24	2387K
		25	2407K
		26	2428K
		27	2448K
		28	2468K
		29	2489K
		30	2509K
		31	2529K
		32	2550K
		33	2570K
		34	2590K
		35	2611K
		36	2631K
		37	2652K
		38	2672K
		39	2692K
		40	2713K
		41	2733K
		42	2753K
		43	2774K
		44	2794K
		45	2814K
		46	2835K
		47	2855K
		48	2876K
		49	2896K
		50	2916K
		51	2937K
		52	2957K
		53	2977K
		54	2998K
		55	3018K
		56	3038K
		57	3059K

CH	Function	DMX	Description
149	Color Temperature 2 (continued)	58	3079K
		59	3100K
		60	3120K
		61	3140K
		62	3161K
		63	3181K
		64	3201K
		65	3222K
		66	3242K
		67	3262K
		68	3283K
		69	3303K
		70	3324K
		71	3344K
		72	3364K
		73	3385K
		74	3405K
		75	3425K
		76	3446K
		77	3466K
		78	3486K
		79	3507K
		80	3527K
		81	3548K
		82	3568K
		83	3588K
		84	3609K
		85	3629K
		86	3649K
		87	3670K
		88	3690K
		89	3710K
		90	3731K
		91	3751K
		92	3771K
		93	3792K
		94	3812K
		95	3833K
		96	3853K
		97	3873K
		98	3894K
		99	3914K

CH	Function	DMX	Description
149	Color Temperature 2 (continued)	100	3934K
		101	3955K
		102	3975K
		103	3995K
		104	4016K
		105	4036K
		106	4057K
		107	4077K
		108	4097K
		109	4118K
		110	4138K
		111	4158K
		112	4179K
		113	4199K
		114	4219K
		115	4240K
		116	4260K
		117	4281K
		118–119	4301K
		120	4342K
		121	4362K
		122	4382K
		123	4403K
		124	4423K
		125	4443K
		126	4464K
		127	4484K
		128	4505K
		129	4525K
		130	4545K
		131	4566K
		132	4586K
		133	4606K
		134	4627K
		135	4647K
		136	4667K
		137	4688K
		138	4708K
		139	4729K
		140	4749K
		141	4769K
		142	4790K

CH	Function	DMX	Description
149	Color Temperature 2 (continued)	143	4810K
		144	4830K
		145	4851K
		146	4871K
		147	4891K
		148	4912K
		149	4932K
		150	4952K
		151	4973K
		152	4993K
		153	5014K
		154	5034K
		155	5054K
		156	5075K
		157	5095K
		158	5115K
		159	5136K
		160	5156K
		161	5176K
		162	5197K
		163	5217K
		164	5238K
		165	5258K
		166	5278K
		167	5299K
		168	5319K
		169	5339K
		170	5360K
		171	5380K
		172	5400K
		173	5421K
		174	5441K
		175	5462K
		176	5482K
		177	5502K
		178	5523K
		179	5543K
		180	5563K
		181	5584K
		182	5604K
		183	5624K
		184	5645K

CH	Function	DMX	Description
149	Color Temperature 2 (continued)	185	5665K
		186	5686K
		187	5706K
		188	5726K
		189	5747K
		190	5767K
		191	5787K
		192	5808K
		193	5828K
		194	5848K
		195	5869K
		196	5889K
		197	5910K
		198	5930K
		199	5950K
		200	5971K
		201	5991K
		202	6011K
		203	6032K
		204	6052K
		205	6072K
		206	6093K
		207	6113K
		208	6133K
		209	6154K
		210	6174K
		211	6195K
		212	6215K
		213	6235K
		214	6256K
		215	6276K
		216	6296K
		217	6317K
		218	6337K
		219	6357K
		220	6378K
		221	6398K
		222	6419K
		223	6439K
		224	6459K
		225	6480K
		226	6500K

CH	Function	DMX	Description
149	Color Temperature 2 (continued)	227	6621K
		228	6741K
		229	6862K
		230	6983K
		231	7103K
		232	7224K
		233	7345K
		234	7466K
		235	7586K
		236	7707K
		237	7828K
		238	7948K
		239	8069K
		240	8190K
		241	8310K
		242	8431K
		243	8552K
		244	8672K
		245	8793K
		246	8914K
		247	9034K
		248	9155K
		249	9276K
		250	9397K
		251	9517K
		252	9638K
		253	9759K
		254	9879K
		255	10000K
150	Red 7		Same as CH 94 in the mode “112CH Pure Mode 8 Bit” (p. 80)
151	Green 7		Same as CH 95 in the mode “112CH Pure Mode 8 Bit” (p. 80)
152	Blue 7		Same as CH 96 in the mode “112CH Pure Mode 8 Bit” (p. 80)
153	Red 8		Same as CH 97 in the mode “112CH Pure Mode 8 Bit” (p. 80)
154	Green 8		Same as CH 98 in the mode “112CH Pure Mode 8 Bit” (p. 80)
155	Blue 8		Same as CH 99 in the mode “112CH Pure Mode 8 Bit” (p. 80)
156	Red 9		Same as CH 100 in the mode “112CH Pure Mode 8 Bit” (p. 80)
157	Green 9		Same as CH 101 in the mode “112CH Pure Mode 8 Bit” (p. 81)
158	Blue 9		Same as CH 102 in the mode “112CH Pure Mode 8 Bit” (p. 81)
159	Red 10		Same as CH 103 in the mode “112CH Pure Mode 8 Bit” (p. 81)
160	Green 10		Same as CH 104 in the mode “112CH Pure Mode 8 Bit” (p. 81)
161	Blue 10		Same as CH 105 in the mode “112CH Pure Mode 8 Bit” (p. 81)
162	Red 11		Same as CH 106 in the mode “112CH Pure Mode 8 Bit” (p. 81)

CH	Function	DMX	Description
163	Green 11		Same as CH 107 in the mode “112CH Pure Mode 8 Bit” (p. 81)
164	Blue 11		Same as CH 108 in the mode “112CH Pure Mode 8 Bit” (p. 81)
165	Red 12		Same as CH 109 in the mode “112CH Pure Mode 8 Bit” (p. 81)
166	Green 12		Same as CH 110 in the mode “112CH Pure Mode 8 Bit” (p. 81)
167	Blue 12		Same as CH 111 in the mode “112CH Pure Mode 8 Bit” (p. 81)
168	Group Pattern Dimmer 2		Same as CH 62 in the mode “71CH Standard Mode” (p. 75)
169	RGB Group Panel Pattern Selection	0–5	Full On
		6	Pulse A1
		7	Pulse A2
		8	Pulse A3
		9	Pulse A4
		10	Pulse A5
		11	Pulse A1/2
		12	Pulse A1I2
		13	Pulse A2/2
		14	Pulse A1/3
		15	Bounce A1
		16	Bounce A2
		17	Bounce A3
		18	Bounce A4
		19	Bounce A1 inv
		20	Bounce A2 inv
		21	Bounce A3 inv
		22	Bounce A4 inv
		23	Bounce A1/2
		24	Bounce A1I2 inv
		25	Bounce A2I2 inv
		26	Bounce A1I3
		27	Bounce A1/3 inv
		28	Rotor A1
		29	Rotor A2
		30	Rotor A4
		31	Rotor A6
		32	Rotor A8
		33	Rotor A10
		34	Rotor B1
		35	Rotor B2
		36	Rotor B3
		37	Rotor B4
		38	Rotor B5
		39	Rotor A1I2
		40	Rotor A2I2

CH	Function	DMX	Description
169	RGB Group Panel Pattern Selection (continued)	41	Rotor A3/2
		42	Rotor A4/2
		43	Rotor A5/2
		44–45	Rotor A1I3
		46	Rotor B1I2
		47	Rotor B2I2
		48	Rotor B1I3
		49	Snake A1
		50	Snake A2
		51	Snake A3
		52	Snake A4
		53–255	Full Off
170	Group Pattern Selection X-Fade 2		Same as CH 64 in the mode “71CH Standard Mode” (p. 76)
171	Group Pattern Speed 2		Same as CH 65 in the mode “71CH Standard Mode” (p. 76)
172	Group Pattern X-Fade 2		Same as CH 66 in the mode “71CH Standard Mode” (p. 76)
173	Group Pattern Space 2		Same as CH 67 in the mode “71CH Standard Mode” (p. 76)
174	Pattern Red 3	0	Min
		1–254	Min ... Max
		255	Max
175	Pattern Green 3	0	Min
		1–254	Min ... Max
		255	Max
176	Pattern Blue 3	0	Min
		1–254	Min ... Max
		255	Max
177	Pattern CTC		Same as CH 38 in the mode “39CH Easy Mode” (p. 43)
178	Control		Same as CH 15 in the mode “15CH Simple Mode” (p. 21)

CH 1–13: 13 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 1); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	1	2	2	3	3	4	4	5	5	6	6
7	7	8	8	9	9	10	10	11	11	12	12
13	13										

CH 22–33: 12 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 22); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	22	2	23	3	24	4	25	5	26	6	27
7	28	8	29	9	30	10	31	11	32	12	33

CH 42–53: 12 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 42); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	42	2	43	3	44	4	45	5	46	6	47
7	48	8	49	9	50	10	51	11	52	12	53

CH 62–73: 12 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 62); the table below gives each cell's channel numbers.

Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	62	2	63	3	64	4	65	5	66	6	67
7	68	8	69	9	70	10	71	11	72	12	73

CH 82–93: 12 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 82); the table below gives each cell's channel numbers.

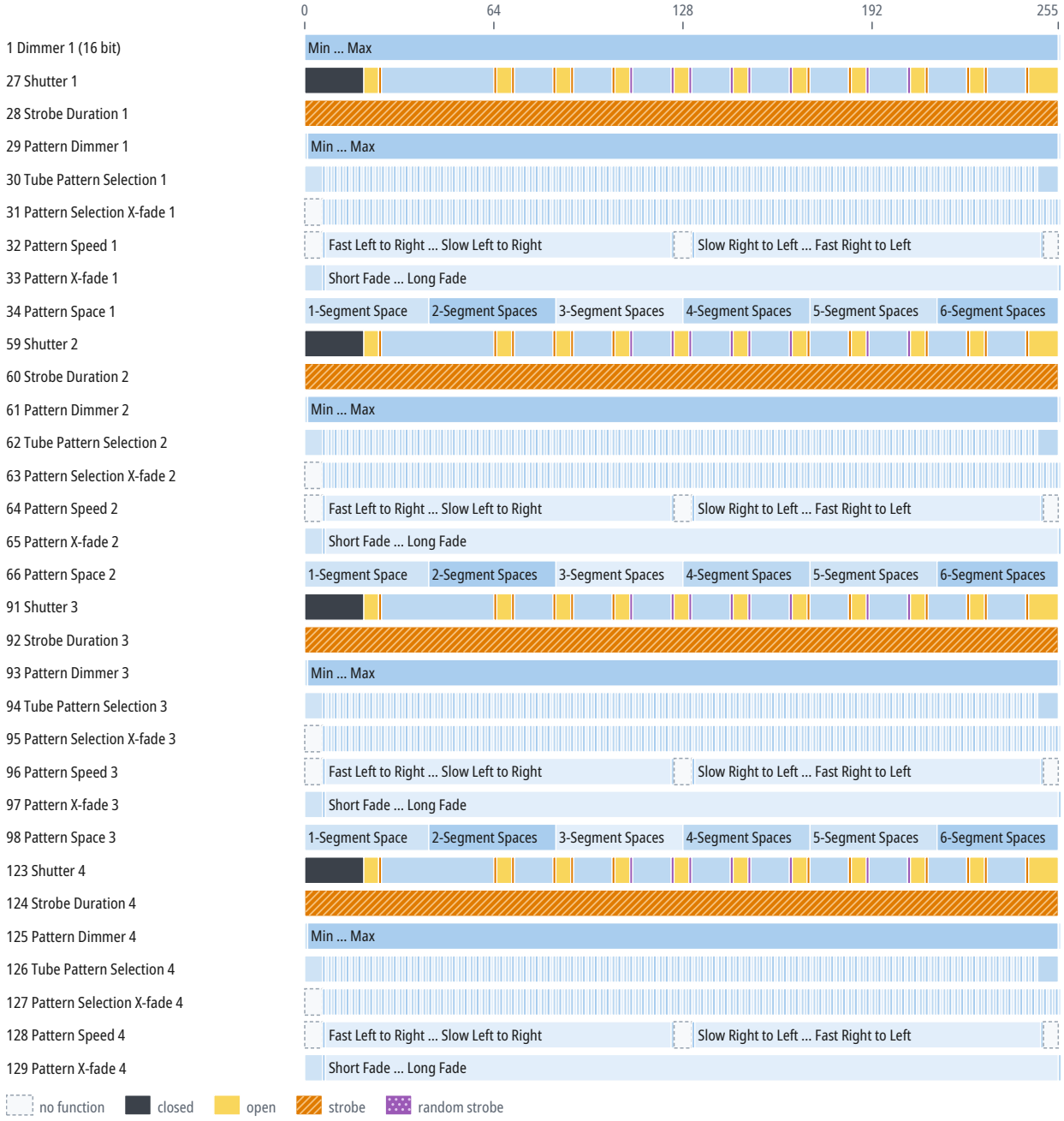
Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	82	2	83	3	84	4	85	5	86	6	87
7	88	8	89	9	90	10	91	11	92	12	93

Mode 275CH Full Access Extended Mode

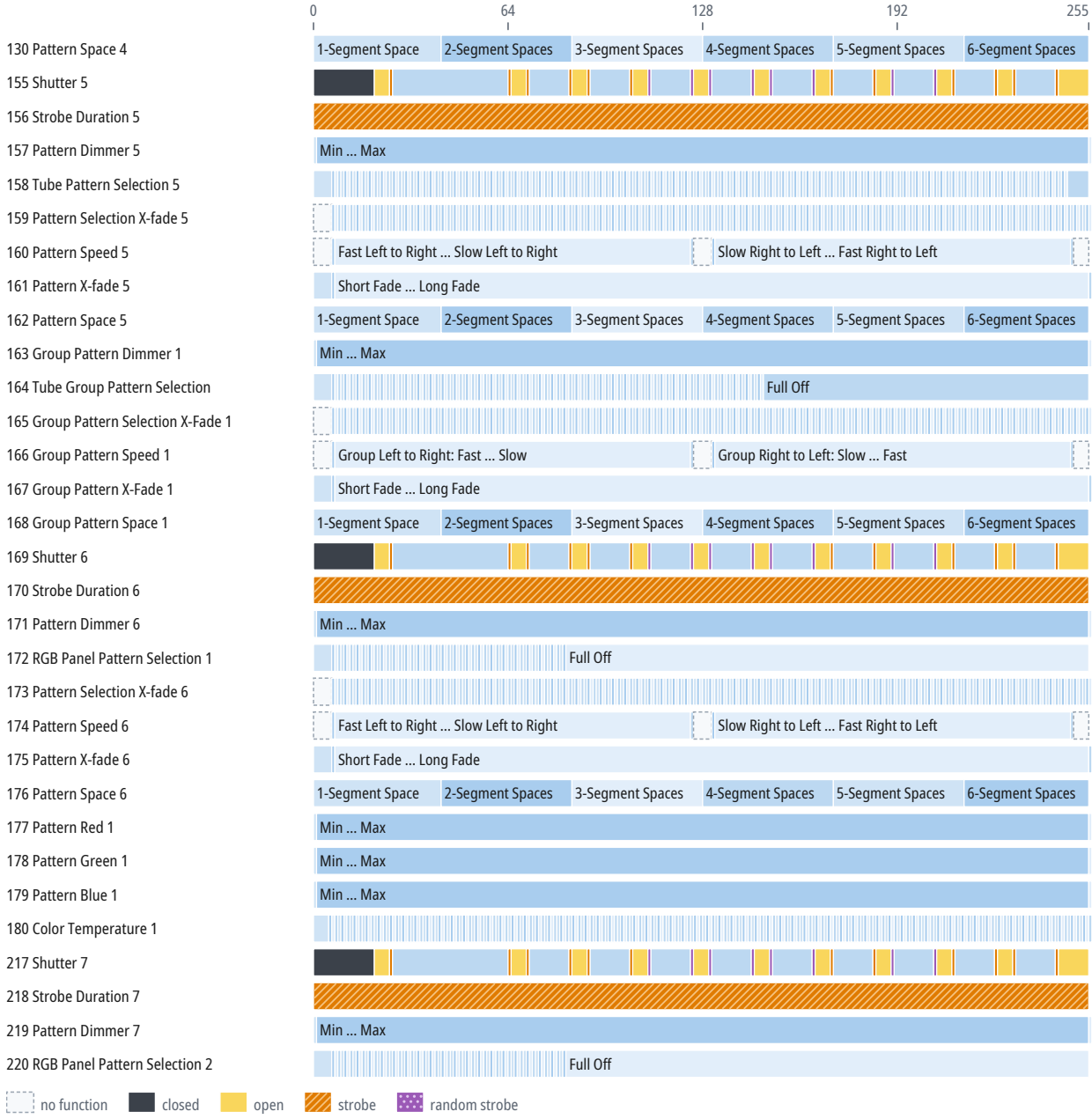
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 27 Shutter 1 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 59 Shutter 2 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 91 Shutter 3 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 123 Shutter 4 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 155 Shutter 5 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 169 Shutter 6 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”; CH 217 Shutter 7 at 20–24 “Shutter Open” or 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229, 245–255 “Open”. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255 (the same in each of the 13 cells), CH 35 Dimmer 255 (the same in each of the 12 cells), CH 67 Dimmer 255 (the same in each of the 12 cells), CH 99 Dimmer 255 (the same in each of the 12 cells), CH 131 Dimmer 255 (the same in each of the 12 cells), CH 177 Pattern Red 1 255, CH 178 Pattern Green 1 255, CH 179 Pattern Blue 1 255, CH 181 Red 1 255, CH 183 Green 1 255, CH 185 Blue 1 255, CH 187 Red 2 255, CH 189 Green 2 255, CH 191 Blue 2 255, CH 193 Red 3 255, CH 195 Green 3 255, CH 197 Blue 3 255, CH 199 Red 4 255, CH 201 Green 4 255, CH 203 Blue 4 255, CH 205 Red 5 255, CH 207 Green 5 255, CH 209 Blue 5 255, CH 211 Red 6 255, CH 213 Green 6 255, CH 215 Blue 6 255, CH 225 Pattern Red 2 255, CH 226 Pattern Green 2 255, CH 227 Pattern Blue 2 255, CH 229 Red 7 255, CH 231 Green 7 255, CH 233 Blue 7 255, CH 235 Red 8 255, CH 237 Green 8 255, CH 239 Blue 8 255, CH 241 Red 9 255, CH 243 Green 9 255, CH 245 Blue 9 255, CH 247 Red 10 255, CH 249 Green 10 255, CH 251 Blue 10 255, CH 253 Red 11 255, CH 255 Green 11 255, CH 257 Blue 11 255, CH 259 Red 12 255, CH 261 Green 12 255, CH 263 Blue 12 255.

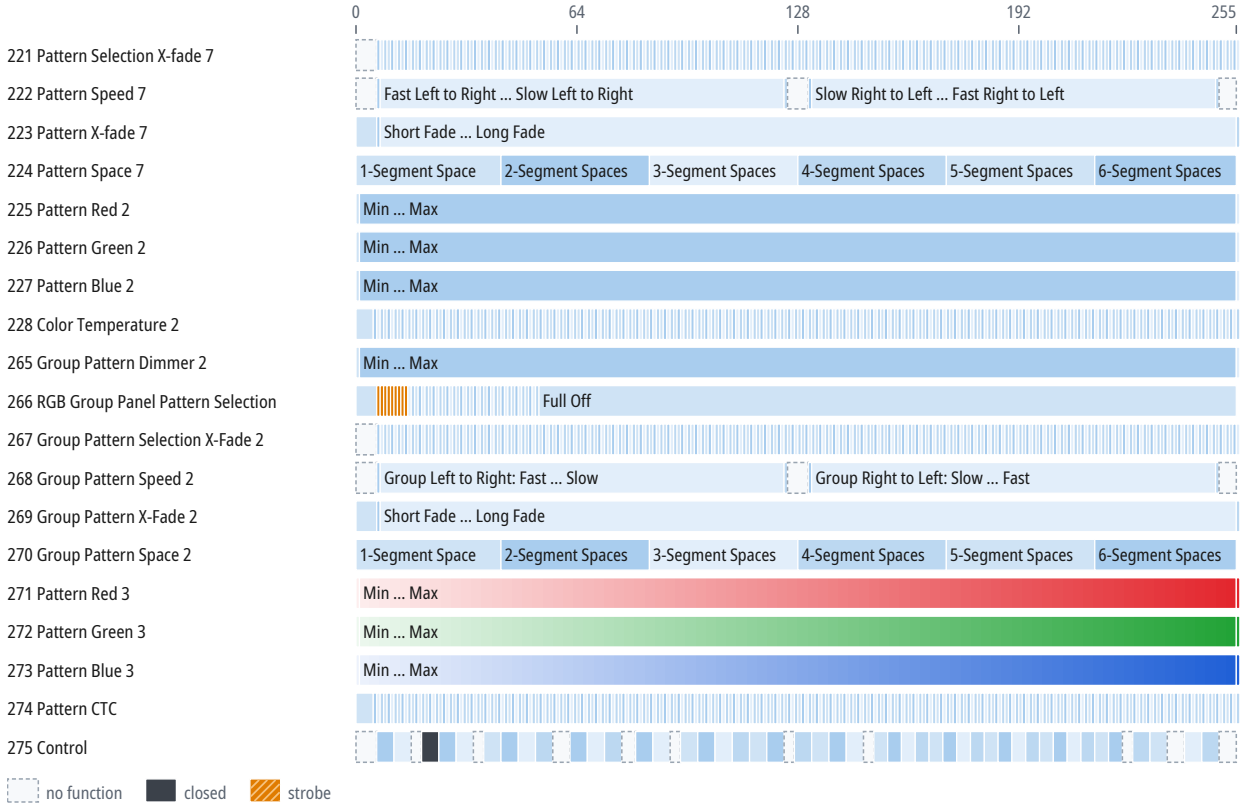
Channel functions at a glance



Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1	0–255	Min ... Max
		255	Max
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
27	Shutter 1		Same as CH 3 in the mode “15CH Simple Mode” (p. 11)
28	Strobe Duration 1	0–255	
29	Pattern Dimmer 1		Same as CH 5 in the mode “39CH Easy Mode” (p. 24)
30	Tube Pattern Selection 1		Same as CH 6 in the mode “39CH Easy Mode” (p. 24)
31	Pattern Selection X-fade 1		Same as CH 7 in the mode “39CH Easy Mode” (p. 30)
32	Pattern Speed 1		Same as CH 8 in the mode “71CH Standard Mode” (p. 51)
33	Pattern X-fade 1		Same as CH 9 in the mode “39CH Easy Mode” (p. 30)
34	Pattern Space 1		Same as CH 10 in the mode “39CH Easy Mode” (p. 30)
35	Dimmer 14	0–255	Min ... Max
		255	Max
36	Dimmer 14 Fine	0–255	Fine adjustment of CH 35
59	Shutter 2		Same as CH 6 in the mode “15CH Simple Mode” (p. 12)
60	Strobe Duration 2	0–255	
61	Pattern Dimmer 2		Same as CH 14 in the mode “39CH Easy Mode” (p. 30)
62	Tube Pattern Selection 2		Same as CH 15 in the mode “39CH Easy Mode” (p. 30)
63	Pattern Selection X-fade 2		Same as CH 16 in the mode “39CH Easy Mode” (p. 36)
64	Pattern Speed 2		Same as CH 39 in the mode “178CH Full Access Mode” (p. 91)

CH	Function	DMX	Description
65	Pattern X-fade 2		Same as CH 20 in the mode “39CH Easy Mode” (p. 39)
66	Pattern Space 2		Same as CH 21 in the mode “39CH Easy Mode” (p. 39)
67	Dimmer 26	0–255	Min ... Max
		255	Max
68	Dimmer 26 Fine	0–255	Fine adjustment of CH 67
91	Shutter 3		Same as CH 9 in the mode “15CH Simple Mode” (p. 13)
92	Strobe Duration 3	0–255	
93	Pattern Dimmer 3		Same as CH 29 in the mode “39CH Easy Mode” (p. 39)
94	Tube Pattern Selection 3		Same as CH 24 in the mode “71CH Standard Mode” (p. 52)
95	Pattern Selection X-fade 3		Same as CH 31 in the mode “39CH Easy Mode” (p. 42)
96	Pattern Speed 3		Same as CH 59 in the mode “178CH Full Access Mode” (p. 92)
97	Pattern X-fade 3		Same as CH 33 in the mode “39CH Easy Mode” (p. 43)
98	Pattern Space 3		Same as CH 34 in the mode “39CH Easy Mode” (p. 43)
99	Dimmer 38	0–255	Min ... Max
		255	Max
100	Dimmer 38 Fine	0–255	Fine adjustment of CH 99
123	Shutter 4		Same as CH 30 in the mode “71CH Standard Mode” (p. 58)
124	Strobe Duration 4	0–255	
125	Pattern Dimmer 4		Same as CH 32 in the mode “71CH Standard Mode” (p. 59)
126	Tube Pattern Selection 4		Same as CH 33 in the mode “71CH Standard Mode” (p. 59)
127	Pattern Selection X-fade 4		Same as CH 34 in the mode “71CH Standard Mode” (p. 64)
128	Pattern Speed 4		Same as CH 79 in the mode “178CH Full Access Mode” (p. 92)
129	Pattern X-fade 4		Same as CH 36 in the mode “71CH Standard Mode” (p. 64)
130	Pattern Space 4		Same as CH 37 in the mode “71CH Standard Mode” (p. 65)
131	Dimmer 50	0–255	Min ... Max
		255	Max
132	Dimmer 50 Fine	0–255	Fine adjustment of CH 131
155	Shutter 5		Same as CH 39 in the mode “71CH Standard Mode” (p. 65)
156	Strobe Duration 5	0–255	
157	Pattern Dimmer 5		Same as CH 41 in the mode “71CH Standard Mode” (p. 66)
158	Tube Pattern Selection 5		Same as CH 42 in the mode “71CH Standard Mode” (p. 66)
159	Pattern Selection X-fade 5		Same as CH 43 in the mode “71CH Standard Mode” (p. 71)
160	Pattern Speed 5		Same as CH 99 in the mode “178CH Full Access Mode” (p. 93)
161	Pattern X-fade 5		Same as CH 45 in the mode “71CH Standard Mode” (p. 72)
162	Pattern Space 5		Same as CH 46 in the mode “71CH Standard Mode” (p. 72)
163	Group Pattern Dimmer 1		Same as CH 102 in the mode “178CH Full Access Mode” (p. 93)
164	Tube Group Pattern Selection		Same as CH 17 in the mode “39CH Easy Mode” (p. 36)
165	Group Pattern Selection X-Fade 1		Same as CH 49 in the mode “71CH Standard Mode” (p. 72)
166	Group Pattern Speed 1	0–5	No Function
		6	Group Left to Right: Fast
		7–123	Group Left to Right: Fast ... Slow
		124	Group Left to Right: Slow

CH	Function	DMX	Description
166	Group Pattern Speed 1 (continued)	125–130	No Function
		131	Group Right to Left: Slow
		132–248	Group Right to Left: Slow ... Fast
		249	Group Right to Left: Fast
		250–255	No Function
167	Group Pattern X-Fade 1		Same as CH 51 in the mode “71CH Standard Mode” (p. 72)
168	Group Pattern Space 1		Same as CH 52 in the mode “71CH Standard Mode” (p. 72)
169	Shutter 6		Same as CH 54 in the mode “71CH Standard Mode” (p. 73)
170	Strobe Duration 6	0–255	
171	Pattern Dimmer 6		Same as CH 110 in the mode “178CH Full Access Mode” (p. 93)
172	RGB Panel Pattern Selection 1		Same as CH 111 in the mode “178CH Full Access Mode” (p. 93)
173	Pattern Selection X-fade 6		Same as CH 112 in the mode “178CH Full Access Mode” (p. 95)
174	Pattern Speed 6		Same as CH 113 in the mode “178CH Full Access Mode” (p. 95)
175	Pattern X-fade 6		Same as CH 114 in the mode “178CH Full Access Mode” (p. 96)
176	Pattern Space 6		Same as CH 115 in the mode “178CH Full Access Mode” (p. 96)
177	Pattern Red 1		Same as CH 116 in the mode “178CH Full Access Mode” (p. 96)
178	Pattern Green 1		Same as CH 117 in the mode “178CH Full Access Mode” (p. 96)
179	Pattern Blue 1		Same as CH 118 in the mode “178CH Full Access Mode” (p. 96)
180	Color Temperature 1		Same as CH 119 in the mode “178CH Full Access Mode” (p. 96)
181	Red 1		Same as CH 135 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
182	Red 1 Fine	0–255	Fine adjustment of CH 181
183	Green 1		Same as CH 137 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
184	Green 1 Fine	0–255	Fine adjustment of CH 183
185	Blue 1		Same as CH 139 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
186	Blue 1 Fine	0–255	Fine adjustment of CH 185
187	Red 2		Same as CH 141 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
188	Red 2 Fine	0–255	Fine adjustment of CH 187
189	Green 2		Same as CH 143 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
190	Green 2 Fine	0–255	Fine adjustment of CH 189
191	Blue 2		Same as CH 145 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
192	Blue 2 Fine	0–255	Fine adjustment of CH 191
193	Red 3		Same as CH 147 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
194	Red 3 Fine	0–255	Fine adjustment of CH 193
195	Green 3		Same as CH 149 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
196	Green 3 Fine	0–255	Fine adjustment of CH 195

CH	Function	DMX	Description
197	Blue 3		Same as CH 151 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
198	Blue 3 Fine	0–255	Fine adjustment of CH 197
199	Red 4		Same as CH 153 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
200	Red 4 Fine	0–255	Fine adjustment of CH 199
201	Green 4		Same as CH 155 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
202	Green 4 Fine	0–255	Fine adjustment of CH 201
203	Blue 4		Same as CH 157 in the mode “209CH Pure Extended Mode 16 Bit” (p. 84)
204	Blue 4 Fine	0–255	Fine adjustment of CH 203
205	Red 5		Same as CH 159 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
206	Red 5 Fine	0–255	Fine adjustment of CH 205
207	Green 5		Same as CH 161 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
208	Green 5 Fine	0–255	Fine adjustment of CH 207
209	Blue 5		Same as CH 163 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
210	Blue 5 Fine	0–255	Fine adjustment of CH 209
211	Red 6		Same as CH 165 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
212	Red 6 Fine	0–255	Fine adjustment of CH 211
213	Green 6		Same as CH 167 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
214	Green 6 Fine	0–255	Fine adjustment of CH 213
215	Blue 6		Same as CH 169 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
216	Blue 6 Fine	0–255	Fine adjustment of CH 215
217	Shutter 7		Same as CH 92 in the mode “112CH Pure Mode 8 Bit” (p. 79)
218	Strobe Duration 7	0–255	
219	Pattern Dimmer 7		Same as CH 140 in the mode “178CH Full Access Mode” (p. 103)
220	RGB Panel Pattern Selection 2		Same as CH 141 in the mode “178CH Full Access Mode” (p. 103)
221	Pattern Selection X-fade 7		Same as CH 142 in the mode “178CH Full Access Mode” (p. 105)
222	Pattern Speed 7		Same as CH 143 in the mode “178CH Full Access Mode” (p. 105)
223	Pattern X-fade 7		Same as CH 144 in the mode “178CH Full Access Mode” (p. 105)
224	Pattern Space 7		Same as CH 145 in the mode “178CH Full Access Mode” (p. 105)
225	Pattern Red 2		Same as CH 146 in the mode “178CH Full Access Mode” (p. 105)

CH	Function	DMX	Description
226	Pattern Green 2		Same as CH 147 in the mode “178CH Full Access Mode” (p. 105)
227	Pattern Blue 2		Same as CH 148 in the mode “178CH Full Access Mode” (p. 105)
228	Color Temperature 2		Same as CH 149 in the mode “178CH Full Access Mode” (p. 105)
229	Red 7		Same as CH 173 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
230	Red 7 Fine	0–255	Fine adjustment of CH 229
231	Green 7		Same as CH 175 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
232	Green 7 Fine	0–255	Fine adjustment of CH 231
233	Blue 7		Same as CH 177 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
234	Blue 7 Fine	0–255	Fine adjustment of CH 233
235	Red 8		Same as CH 179 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
236	Red 8 Fine	0–255	Fine adjustment of CH 235
237	Green 8		Same as CH 181 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
238	Green 8 Fine	0–255	Fine adjustment of CH 237
239	Blue 8		Same as CH 183 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
240	Blue 8 Fine	0–255	Fine adjustment of CH 239
241	Red 9		Same as CH 185 in the mode “209CH Pure Extended Mode 16 Bit” (p. 85)
242	Red 9 Fine	0–255	Fine adjustment of CH 241
243	Green 9		Same as CH 187 in the mode “209CH Pure Extended Mode 16 Bit” (p. 86)
244	Green 9 Fine	0–255	Fine adjustment of CH 243
245	Blue 9		Same as CH 189 in the mode “209CH Pure Extended Mode 16 Bit” (p. 86)
246	Blue 9 Fine	0–255	Fine adjustment of CH 245
247	Red 10		Same as CH 191 in the mode “209CH Pure Extended Mode 16 Bit” (p. 86)
248	Red 10 Fine	0–255	Fine adjustment of CH 247
249	Green 10		Same as CH 193 in the mode “209CH Pure Extended Mode 16 Bit” (p. 86)
250	Green 10 Fine	0–255	Fine adjustment of CH 249
251	Blue 10		Same as CH 195 in the mode “209CH Pure Extended Mode 16 Bit” (p. 86)
252	Blue 10 Fine	0–255	Fine adjustment of CH 251
253	Red 11		Same as CH 197 in the mode “209CH Pure Extended Mode 16 Bit” (p. 86)
254	Red 11 Fine	0–255	Fine adjustment of CH 253
255	Green 11		Same as CH 199 in the mode “209CH Pure Extended Mode 16 Bit” (p. 86)

CH	Function	DMX	Description
256	Green 11 Fine	0–255	Fine adjustment of CH 255
257	Blue 11		Same as CH 201 in the mode “209CH Pure Extended Mode 16 Bit” (p. 86)
258	Blue 11 Fine	0–255	Fine adjustment of CH 257
259	Red 12		Same as CH 203 in the mode “209CH Pure Extended Mode 16 Bit” (p. 86)
260	Red 12 Fine	0–255	Fine adjustment of CH 259
261	Green 12		Same as CH 205 in the mode “209CH Pure Extended Mode 16 Bit” (p. 86)
262	Green 12 Fine	0–255	Fine adjustment of CH 261
263	Blue 12		Same as CH 207 in the mode “209CH Pure Extended Mode 16 Bit” (p. 86)
264	Blue 12 Fine	0–255	Fine adjustment of CH 263
265	Group Pattern Dimmer 2		Same as CH 62 in the mode “71CH Standard Mode” (p. 75)
266	RGB Group Panel Pattern Selection		Same as CH 169 in the mode “178CH Full Access Mode” (p. 112)
267	Group Pattern Selection X-Fade 2		Same as CH 64 in the mode “71CH Standard Mode” (p. 76)
268	Group Pattern Speed 2	0–5	No Function
		6	Group Left to Right: Fast
		7–123	Group Left to Right: Fast ... Slow
		124	Group Left to Right: Slow
		125–130	No Function
		131	Group Right to Left: Slow
		132–248	Group Right to Left: Slow ... Fast
		249	Group Right to Left: Fast
		250–255	No Function
269	Group Pattern X-Fade 2		Same as CH 66 in the mode “71CH Standard Mode” (p. 76)
270	Group Pattern Space 2		Same as CH 67 in the mode “71CH Standard Mode” (p. 76)
271	Pattern Red 3		Pattern Red
		0	Min
		1–254	Min ... Max
		255	Max
272	Pattern Green 3		Pattern Green
		0	Min
		1–254	Min ... Max
		255	Max
273	Pattern Blue 3		Pattern Blue
		0	Min
		1–254	Min ... Max
		255	Max
274	Pattern CTC		Same as CH 38 in the mode “39CH Easy Mode” (p. 43)
275	Control		Same as CH 15 in the mode “15CH Simple Mode” (p. 21)

CH 1–26: 13 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 1–2); the table

below gives each cell's channel numbers.

Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine
1	1	2	2	3	4	3	5	6	4	7	8
5	9	10	6	11	12	7	13	14	8	15	16
9	17	18	10	19	20	11	21	22	12	23	24
13	25	26									

CH 35–58: 12 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 35–36); the table below gives each cell's channel numbers.

Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine
1	35	36	2	37	38	3	39	40	4	41	42
5	43	44	6	45	46	7	47	48	8	49	50
9	51	52	10	53	54	11	55	56	12	57	58

CH 67–90: 12 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 67–68); the table below gives each cell's channel numbers.

Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine
1	67	68	2	69	70	3	71	72	4	73	74
5	75	76	6	77	78	7	79	80	8	81	82
9	83	84	10	85	86	11	87	88	12	89	90

CH 99–122: 12 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 99–100); the table below gives each cell's channel numbers.

Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine
1	99	100	2	101	102	3	103	104	4	105	106
5	107	108	6	109	110	7	111	112	8	113	114
9	115	116	10	117	118	11	119	120	12	121	122

CH 131–154: 12 cells of 2 channels each. Every cell works as cell 1 in the table above (CH 131–132); the table below gives each cell's channel numbers.

Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine	Cell	Dimmer	Dimmer Fine
1	131	132	2	133	134	3	135	136	4	137	138
5	139	140	6	141	142	7	143	144	8	145	146
9	147	148	10	149	150	11	151	152	12	153	154

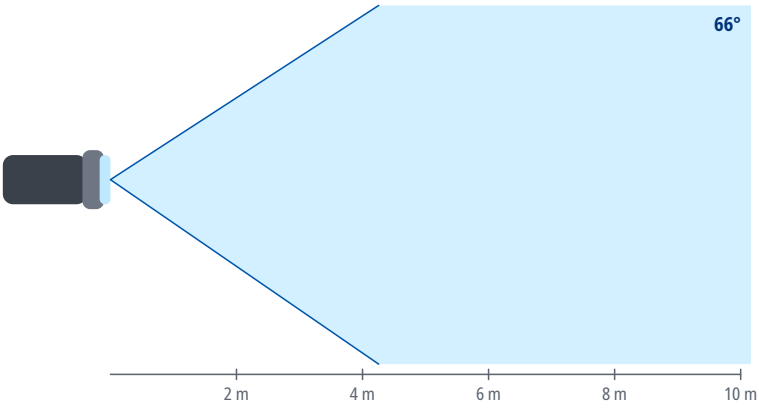
9 Technical specifications

Parameter	Value
Light	
Light source	LED
Control	
DMX connection	5-pin XLR IN, 5-pin XLR OUT (5-pin)
RJ45 connectors	RJ45 IN/OUT
RDM	yes (manufacturer ID 0x6A6A, device model ID 0x0204)
Electrical	
Power supply	90–285 V, 50/60 Hz
Power consumption	1,250 W
Power connectors	powerCON TRUE1 IN/OUT
Dimensions and construction	
Weight	12.6 kg
Operating environment	
Operating temperature	-40 to 45 °C

Speeds and ranges

Parameter	Value
Color temperature range	2000–10000 K
Strobe frequency	1–3 Hz

Spot diameter



Distance	Ø 66°
2 m	2.6 m
4 m	5.2 m
6 m	7.8 m
8 m	10.4 m
10 m	13 m
15 m	19.5 m

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

10 Maintenance and cleaning

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

- Regularly inspect the housing, cables, connectors and fixings. Have damaged parts replaced by a service center.
- How often to clean depends on the environment; dust, smoke and fog make the device dirty much faster.

11 Troubleshooting

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

12 Disposal

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

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

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

Recycle the packaging materials according to their type.