DMX REFERENCE

MagicBlade Neo

Ayrton MagicBlade Neo

Ayrton



Manufacturer	Ayrton
GDTF file	Ayrton_MagicBlade_Neo_167110.gdtf
GDTF revision	V1.13 Add_Real_Value_PT · 2026-10-30
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1 About this manual

This document describes the Ayrton MagicBlade Neo by Ayrton. It was compiled from the GDTF file Ayrton_MagicBlade_Neo_167110.gdtf from the GDTF-Share library.

File revision: “V1.13 Add_Real_Value_PT”.

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 Ayrton; 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	800 W
Weight	32.4 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Extended_Chase	184	2	1, 185
Extended	174	2	1, 175
Extended+Liquid	177	2	1, 178
Extended_Chase+Liquid	187	2	1, 188

No light? Check these channels

- Extended_Chase: CH 16 Shutter 1 at 32–63 or 96–127; CH 17 Dimmer 1 above 0; CH 23 Dimmer 2 above 0; CH 28 Dimmer 3 above 0; CH 51 Shutter 2 at 32–63 or 96–127; CH 52 Dimmer 4 above 0; CH 58 Dimmer 5 above 0; CH 63 Dimmer 6 above 0; CH 86 Shutter 3 at 32–63 or 96–127; CH 87 Dimmer 7 above 0; CH 93 Dimmer 8 above 0; CH 98 Dimmer 9 above 0; CH 121 Shutter 4 at 32–63 or 96–127; CH 122 Dimmer 10 above 0; CH 128 Dimmer 11 above 0; CH 133 Dimmer 12 above 0; CH 156 Shutter 5 at 32–63 or 96–127; CH 157 Dimmer 13 above 0; CH 163 Dimmer 14 above 0; CH 168 Dimmer 15 above 0; CH 184 Dimmer 16 above 0
- Extended: CH 16 Shutter 1 at 32–63 or 96–127; CH 17 Dimmer 1 above 0; CH 23 Dimmer 2 above 0; CH 28 Dimmer 3 above 0; CH 51 Shutter 2 at 32–63 or 96–127; CH 52 Dimmer 4 above 0; CH 58 Dimmer 5 above 0; CH 63 Dimmer 6 above 0; CH 86 Shutter 3 at 32–63 or 96–127; CH 87 Dimmer 7 above 0; CH 93 Dimmer 8 above 0; CH 98 Dimmer 9 above 0; CH 121 Shutter 4 at 32–63 or 96–127; CH 122 Dimmer 10 above 0; CH 128 Dimmer 11 above 0; CH 133 Dimmer 12 above 0; CH 156 Shutter 5 at 32–63 or 96–127; CH 157 Dimmer 13 above 0; CH 163 Dimmer 14 above 0; CH 168 Dimmer 15 above 0
- Extended+Liquid: CH 16 Shutter 1 at 32–63 or 96–127; CH 17 Dimmer 1 above 0; CH 23 Dimmer 2 above 0; CH 28 Dimmer 3 above 0; CH 51 Shutter 2 at 32–63 or 96–127; CH 52 Dimmer 4 above 0; CH 58 Dimmer 5 above 0; CH 63 Dimmer 6 above 0; CH 86 Shutter 3 at 32–63 or 96–127; CH 87 Dimmer 7 above 0; CH 93 Dimmer 8 above 0; CH 98 Dimmer 9 above 0; CH 121 Shutter 4 at 32–63 or 96–127; CH 122 Dimmer 10 above 0; CH 128 Dimmer 11 above 0; CH 133 Dimmer 12 above 0; CH 156 Shutter 5 at 32–63 or 96–127; CH 157 Dimmer 13 above 0; CH 163 Dimmer 14 above 0; CH 168 Dimmer 15 above 0
- Extended_Chase+Liquid: CH 16 Shutter 1 at 32–63 or 96–127; CH 17 Dimmer 1 above 0; CH 23 Dimmer 2 above 0; CH 28 Dimmer 3 above 0; CH 51 Shutter 2 at 32–63 or 96–127; CH 52 Dimmer 4 above 0; CH 58 Dimmer 5 above 0; CH 63 Dimmer 6 above 0; CH 86 Shutter 3 at 32–63 or 96–127; CH 87 Dimmer 7 above 0; CH 93 Dimmer 8 above 0; CH 98 Dimmer 9 above 0; CH 121 Shutter 4 at 32–63 or 96–127; CH 122 Dimmer 10 above 0; CH 128 Dimmer 11 above 0; CH 133 Dimmer 12 above 0; CH 156 Shutter 5 at 32–63 or 96–127; CH 157 Dimmer 13 above 0; CH 163 Dimmer 14 above 0; CH 168 Dimmer 15 above 0; CH 184 Dimmer 16 above 0


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

3 Safety instructions


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

⚠ WARNING

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

⚠ WARNING

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

⚠ WARNING

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

⚠ CAUTION

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

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

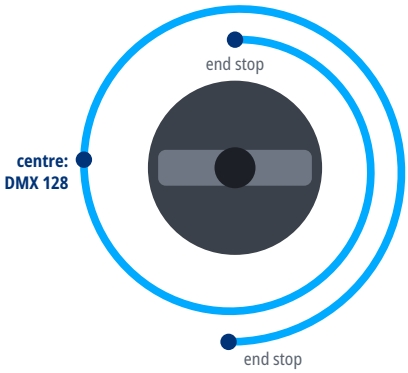
> ⚠ **WARNING**
>
> - The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
> - Keep yourself and any objects out of the range of movement. While the device is switched on, do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

4 Product description

Range of movement

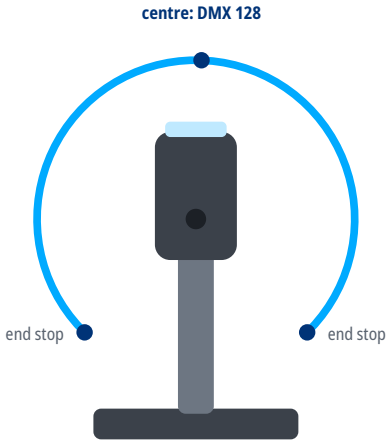
Pan 542°

top view



Tilt 271°

side view



5 Installation

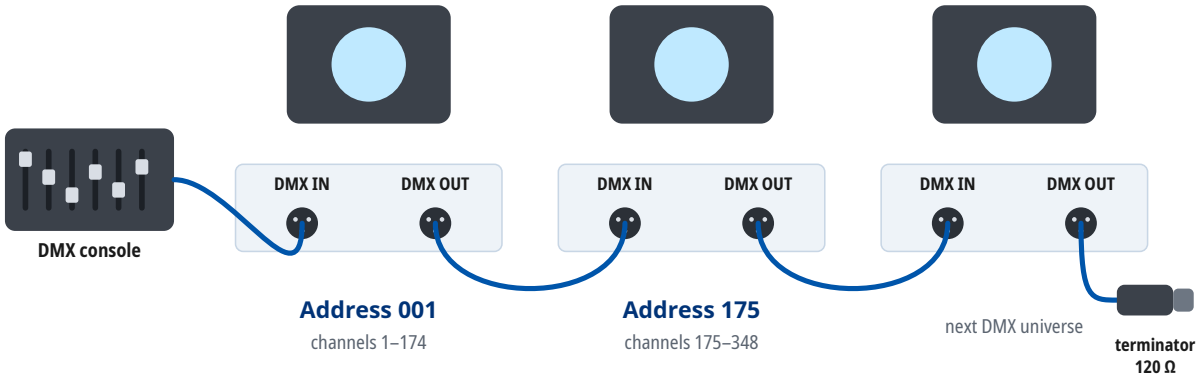
⚠ **WARNING**

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 32.4 kg.
- Use suitable mounting hardware (for example truss clamps) and tighten all screw connections properly.
- Always secure the suspended device against falling with a safety cable of adequate load capacity, routed through a fixed point of the device and around the supporting structure.
- During installation and removal, keep people out of the area below the work position.
- Regularly inspect the fixings and the safety cable for damage, corrosion and loosening.

6 Connections

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

DMX line



Mode Extended: every unit occupies 174 channels from its address. At most 32 units on one line; for more units or longer runs use a DMX splitter. A 120 Ω terminator closes the last DMX OUT.

7 Operation

Setting the DMX address

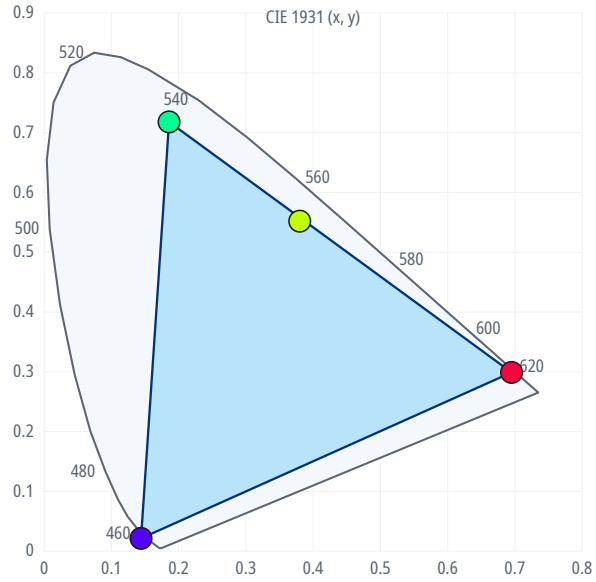
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Extended_Chase+Liquid”: 187.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in the DMX mode “Extended_Chase+Liquid”, you can use, for example, the start addresses 1, 188.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.
- The device supports RDM (Remote Device Management), two-way communication with the controller over the DMX line.

8 Functions at a glance

Functions in each DMX mode

	Extended_Chase 184 channels	Extended 174 channels	Extended+Liquid 177 channels	Extended_Chase+Liquid 187 channels
Pan / Tilt	20 channels (1–146)	20 channels (1–146)	20 channels (1–146)	20 channels (1–146)
Dimmer	16 channels (17–184)	15 channels (17–168)	15 channels (17–168)	16 channels (17–184)
Shutter / strobe	5× (16–156)	5× (16–156)	5× (16–156)	5× (16–156)
Color mixing	54 channels (8–183)	50 channels (8–171)	1–180	1–183
Color temperature	5× (19–159)	5× (19–159)	5× (19–159)	5× (19–159)
Zoom	5× (20–160)	5× (20–160)	5× (20–160)	5× (20–160)
Pixel control	✓	✓	✓	✓

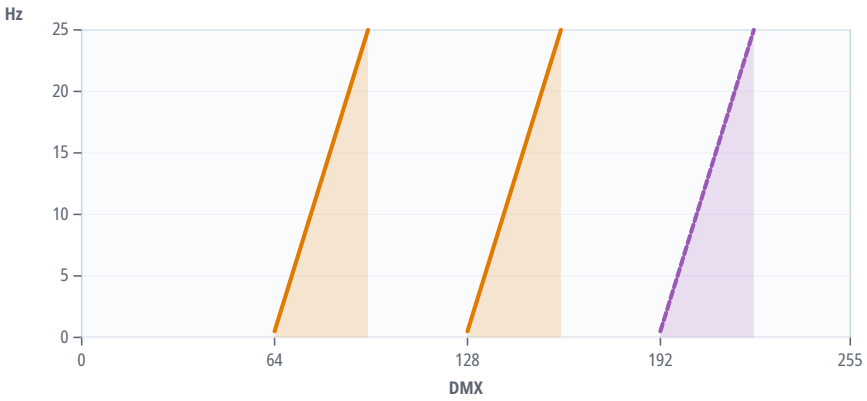
LED colors and the colors they mix



LED	x	y
RED	0.695	0.299
GREEN	0.186	0.718
BLUE	0.144	0.021
LIME	0.380	0.552

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

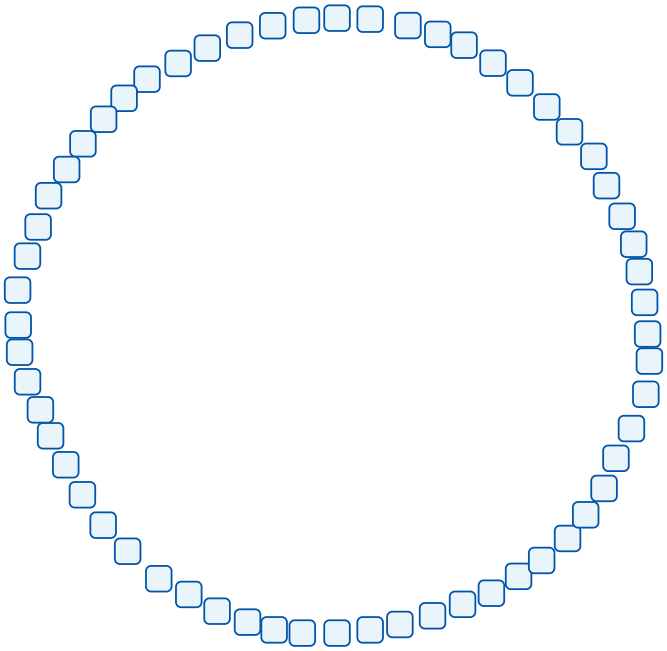
Strobe rate



CH 16 · Extended_Chase+Liquid

- 64–95: 0.5–25 Hz
  Strobe effect slow to fast
- 128–159: 0.5–25 Hz
  Pulse Effect in sequence
- 192–223: 0.5–25 Hz
  Random Strobe effect slow to fast

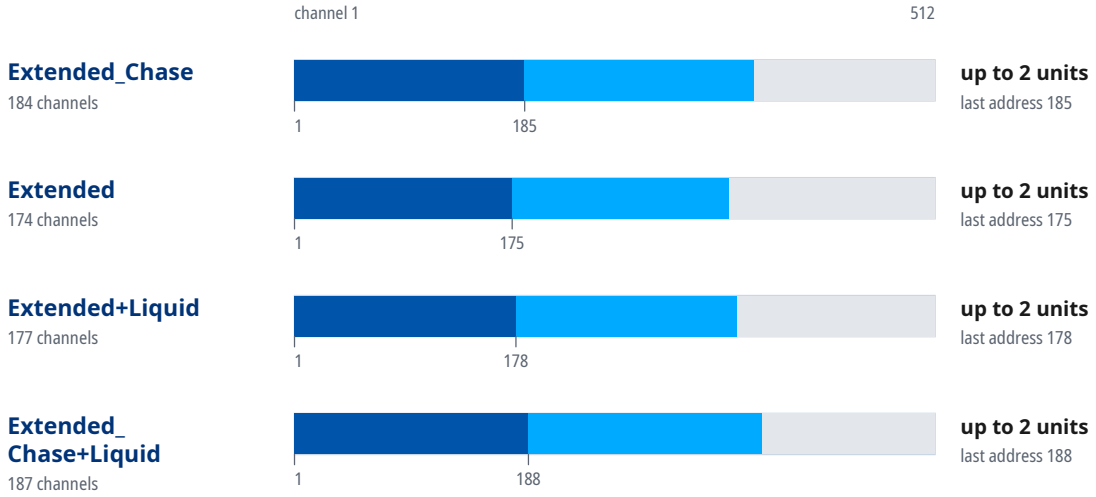
Cells (pixels)



Cells where the GDTF file places them (seen from above), 60 in all in the mode “Extended_Chase+Liquid”.

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Extended_Chase+Liquid”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	U3 · 188	11	U6 · 1	16	U8 · 188
2	188	7	U4 · 1	12	U6 · 188	17	U9 · 1
3	U2 · 1	8	U4 · 188	13	U7 · 1	18	U9 · 188
4	U2 · 188	9	U5 · 1	14	U7 · 188	19	U10 · 1
5	U3 · 1	10	U5 · 188	15	U8 · 1	20	U10 · 188

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

RDM personalities

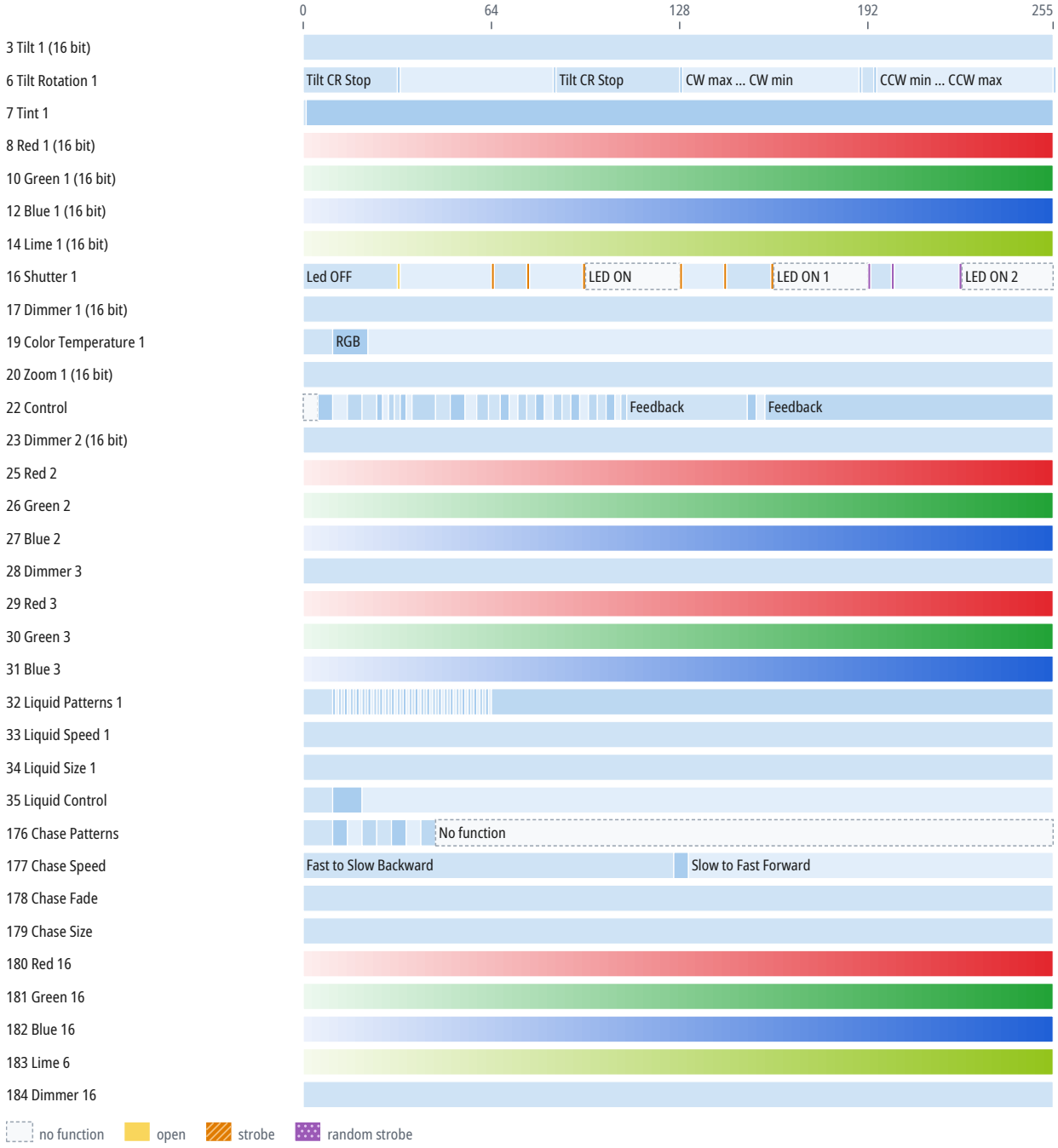
Mode	Channels	RDM personality
Extended_Chase	184	2
Extended	174	1
Extended+Liquid	177	1
Extended_Chase+Liquid	187	2

Mode Extended_Chase

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 16 Shutter 1 at 32–63 or 96–127; CH 17 Dimmer 1 above 0; CH 23 Dimmer 2 above 0; CH 28 Dimmer 3 above 0; CH 51 Shutter 2 at 32–63 or 96–127; CH 52 Dimmer 4 above 0; CH 58 Dimmer 5 above 0; CH 63 Dimmer 6 above 0; CH 86 Shutter 3 at 32–63 or 96–127; CH 87 Dimmer 7 above 0; CH 93 Dimmer 8 above 0; CH 98 Dimmer 9 above 0; CH 121 Shutter 4 at 32–63 or 96–127; CH 122 Dimmer 10 above 0; CH 128 Dimmer 11 above 0; CH 133 Dimmer 12 above 0; CH 156 Shutter 5 at 32–63 or 96–127; CH 157 Dimmer 13 above 0; CH 163 Dimmer 14 above 0; CH 168 Dimmer 15 above 0; CH 184 Dimmer 16 above 0. The GDTF file gives these values for a console's Highlight function: CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 Lime 1 255, CH 16 Shutter 1 32, CH 17 Dimmer 1 255, CH 19 Color Temperature 1 0, CH 23 Dimmer 2 255, CH 25 Red 2 255, CH 26 Green 2 255, CH 27 Blue 2 255, CH 43 Red 4 255, CH 45 Green 4 255, CH 47 Blue 4 255, CH 49 Lime 2 255, CH 51 Shutter 2 32, CH 52 Dimmer 4 255, CH 54 Color Temperature 2 0, CH 58 Dimmer 5 255, CH 60 Red 5 255, CH 61 Green 5 255, CH 62 Blue 5 255, CH 78 Red 7 255, CH 80 Green 7 255, CH 82 Blue 7 255, CH 84 Lime 3 255, CH 86 Shutter 3 32, CH 87 Dimmer 7 255, CH 89 Color Temperature 3 0, CH 93 Dimmer 8 255, CH 95 Red 8 255, CH 96 Green 8 255, CH 97 Blue 8 255, CH 113 Red 10 255, CH 115 Green 10 255, CH 117 Blue 10 255, CH 119 Lime 4 255, CH 121 Shutter 4 32, CH 122 Dimmer 10 255, CH 124 Color Temperature 4 0, CH 128 Dimmer 11 255, CH 130 Red 11 255, CH 131 Green 11 255, CH 132 Blue 11 255, CH 148 Red 13 255, CH 150 Green 13 255, CH 152 Blue 13 255, CH 154 Lime 5 255, CH 156 Shutter 5 32, CH 157 Dimmer 13 255, CH 159 Color Temperature 5 0, CH 163 Dimmer 14 255, CH 165 Red 14 255, CH 166 Green 14 255, CH 167 Blue 14 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan 1	0–255	542.1°
2	Pan 1 Fine	0–255	Fine adjustment of CH 1
3	Tilt 1	0–255	271.1°
4	Tilt 1 Fine	0–255	Fine adjustment of CH 3
5	Pan Rotation 1	0–31	PAN CR Stop
		32	Stop by SpinOut
		33–84	Stop by SpinOut ... Stop by ShortCut
		85	Stop by ShortCut

CH	Function	DMX	Description
5	Pan Rotation 1 (continued)	86–127	PAN CR Stop
		128	CW max
		129–188	CW max ... CW min
		189	CW min
		190–193	Pause
		194	CCW min
		195–254	CCW min ... CCW max
		255	CCW max
6	Tilt Rotation 1	0–31	Tilt CR Stop
		32	Stop by SpinOut
		33–84	Stop by SpinOut ... Stop by ShortCut
		85	Stop by ShortCut
		86–127	Tilt CR Stop
		128	CW max
		129–188	CW max ... CW min
		189	CW min
		190–193	Pause
		194	CCW min
		195–254	CCW min ... CCW max
		255	CCW max
7	Tint 1	0	Tint Off
		1–255	Tint
8	Red 1	0–255	
9	Red 1 Fine	0–255	Fine adjustment of CH 8
10	Green 1	0–255	
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1	0–255	
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	Lime 1	0–255	
15	Lime 1 Fine	0–255	Fine adjustment of CH 14
16	Shutter 1	0–31	Led OFF
		32–63	Led ON
		64	Strobe slow
		65–75	Strobe slow ... Strobe Mid
		76	Strobe Mid
		77–94	Strobe Mid ... Strobe Fast
		95	Strobe Fast
		96–127	LED ON
		128	Pulse Slow
		129–142	Pulse Slow ... Pulse Mid
		143	Pulse Mid
		144–158	Pulse Mid ... Pulse Fast

CH	Function	DMX	Description
16	Shutter 1 (continued)	159	Pulse Fast
		160–191	LED ON 1
		192	Random Slow
		193–199	Random Slow ... Random Mid
		200	Random Mid
		201–222	Random Mid ... Random Fast
		223	Random Fast
		224–255	LED ON 2
17	Dimmer 1	0–255	
18	Dimmer 1 Fine	0–255	Fine adjustment of CH 17
19	Color Temperature 1	0–9	RGBL
		10–21	RGB
		22–255	CTC (8000–2500 K)
20	Zoom 1	0–255	3–35°
21	Zoom 1 Fine	0–255	Fine adjustment of CH 20
22	Control	0–4	No Function
		5–9	Display Off
		10–14	Display On
		15–19	Display Inv Off
		20–24	Display Inv On
		25–26	Auto Fan
		27–28	Stage Fan
		29–30	Silence Fan
		31–32	Super Silence Fan
		33–34	Constant Fan OFF
		35–36	Constant Fan ON
		37–44	Unused
		45–49	Square Law
		50–54	Linear
		55–58	1200 Hz
		59–62	2400 Hz
		63–66	16000 Hz
		67–69	25000 Hz
		70–72	PAN 540
		73–75	PAN 630
		76–78	PAN 360SC
		79–81	TILT 540
		82–84	TILT 270
		85–87	TILT 360SC
		88–90	All Motor Reset
		91–93	Pan/Tilt Motor Reset
		94–96	Zoom Motor Reset

CH	Function	DMX	Description
22	Control (continued)	97–99	Tungsten lamp simulation 500W
		100–102	Tungsten lamp simulation 1000W
		103–105	Tungsten lamp simulation 2500W
		106–107	Tungsten lamp simulation 5000W
		108–109	Tungsten lamp simulation OFF
		110–150	Feedback
		151–153	Feedback Off
		154–156	Feedback On
		157–255	Feedback
23	Dimmer 2	0–255	
24	Dimmer 2 Fine	0–255	Fine adjustment of CH 23
25	Red 2	0–255	
26	Green 2	0–255	
27	Blue 2	0–255	
28	Dimmer 3	0–255	
29	Red 3	0–255	
30	Green 3	0–255	
31	Blue 3	0–255	
32	Liquid Patterns 1	0–9	No Chase
		10–63	Chase 1...54
		64–255	Liquid Patterns
33	Liquid Speed 1	0–255	
34	Liquid Size 1	0–255	
35	Liquid Control	0–9	React to Zonda effect Chase
		10–19	Liquid react to ARTNET OR SACN
		20–255	Liquid Control
36	Pan 2	0–255	542.1°
37	Pan 2 Fine	0–255	Fine adjustment of CH 36
38	Tilt 2	0–255	271.1°
39	Tilt 2 Fine	0–255	Fine adjustment of CH 38
40	Pan Rotation 2	0–31	PAN CR Stop
		32	Stop by SpinOut
		33–84	Stop by SpinOut ... Stop by ShortCut
		85	Stop by ShortCut
		86–127	PAN CR Stop
		128	CW max
		129–188	CW max ... CW min
		189	CW min
		190–193	Pause
		194	CCW min
		195–254	CCW min ... CCW max
		255	CCW max

CH	Function	DMX	Description
41	Tilt Rotation 2	0–31	Tilt CR Stop
		32	Stop by SpinOut
		33–84	Stop by SpinOut ... Stop by ShortCut
		85	Stop by ShortCut
		86–127	Tilt CR Stop
		128	CW max
		129–188	CW max ... CW min
		189	CW min
		190–193	Pause
		194	CCW min
		195–254	CCW min ... CCW max
		255	CCW max
42	Tint 2	0	Tint Off
		1–255	Tint
43	Red 4	0–255	
44	Red 4 Fine	0–255	Fine adjustment of CH 43
45	Green 4	0–255	
46	Green 4 Fine	0–255	Fine adjustment of CH 45
47	Blue 4	0–255	
48	Blue 4 Fine	0–255	Fine adjustment of CH 47
49	Lime 2	0–255	
50	Lime 2 Fine	0–255	Fine adjustment of CH 49
51	Shutter 2	0–31	Led OFF
		32–63	Led ON
		64	Strobe slow
		65–75	Strobe slow ... Strobe Mid
		76	Strobe Mid
		77–94	Strobe Mid ... Strobe Fast
		95	Strobe Fast
		96–127	LED ON
		128	Pulse Slow
		129–142	Pulse Slow ... Pulse Mid
		143	Pulse Mid
		144–158	Pulse Mid ... Pulse Fast
		159	Pulse Fast
		160–191	LED ON 1
		192	Random Slow
		193–199	Random Slow ... Random Mid
		200	Random Mid
		201–222	Random Mid ... Random Fast
		223	Random Fast
		224–255	LED ON 2

CH	Function	DMX	Description
52	Dimmer 4	0–255	
53	Dimmer 4 Fine	0–255	Fine adjustment of CH 52
54	Color Temperature 2	0–9	RGBL
		10–21	RGB
		22–255	CTC (8000–2500 K)
55	Zoom 2	0–255	3–35°
56	Zoom 2 Fine	0–255	Fine adjustment of CH 55
58	Dimmer 5	0–255	
59	Dimmer 5 Fine	0–255	Fine adjustment of CH 58
60	Red 5	0–255	
61	Green 5	0–255	
62	Blue 5	0–255	
63	Dimmer 6	0–255	
64	Red 6	0–255	
65	Green 6	0–255	
66	Blue 6	0–255	
67	Liquid Patterns 2	0–9	No Chase
		10–63	Chase 1...54
		64–255	Liquid Patterns
68	Liquid Speed 2	0–255	
69	Liquid Size 2	0–255	
71	Pan 3	0–255	542.1°
72	Pan 3 Fine	0–255	Fine adjustment of CH 71
73	Tilt 3	0–255	271.1°
74	Tilt 3 Fine	0–255	Fine adjustment of CH 73
75	Pan Rotation 3	0–31	PAN CR Stop
		32	Stop by SpinOut
		33–84	Stop by SpinOut ... Stop by ShortCut
		85	Stop by ShortCut
		86–127	PAN CR Stop
		128	CW max
		129–188	CW max ... CW min
		189	CW min
		190–193	Pause
		194	CCW min
		195–254	CCW min ... CCW max
		255	CCW max
76	Tilt Rotation 3	0–31	Tilt CR Stop
		32	Stop by SpinOut
		33–84	Stop by SpinOut ... Stop by ShortCut
		85	Stop by ShortCut
		86–127	Tilt CR Stop

CH	Function	DMX	Description
76	Tilt Rotation 3 (continued)	128	CW max
		129–188	CW max ... CW min
		189	CW min
		190–193	Pause
		194	CCW min
		195–254	CCW min ... CCW max
		255	CCW max
77	Tint 3	0	Tint Off
		1–255	Tint
78	Red 7	0–255	
79	Red 7 Fine	0–255	Fine adjustment of CH 78
80	Green 7	0–255	
81	Green 7 Fine	0–255	Fine adjustment of CH 80
82	Blue 7	0–255	
83	Blue 7 Fine	0–255	Fine adjustment of CH 82
84	Lime 3	0–255	
85	Lime 3 Fine	0–255	Fine adjustment of CH 84
86	Shutter 3	0–31	Led OFF
		32–63	Led ON
		64	Strobe slow
		65–75	Strobe slow ... Strobe Mid
		76	Strobe Mid
		77–94	Strobe Mid ... Strobe Fast
		95	Strobe Fast
		96–127	LED ON
		128	Pulse Slow
		129–142	Pulse Slow ... Pulse Mid
		143	Pulse Mid
		144–158	Pulse Mid ... Pulse Fast
		159	Pulse Fast
		160–191	LED ON 1
		192	Random Slow
		193–199	Random Slow ... Random Mid
		200	Random Mid
		201–222	Random Mid ... Random Fast
		223	Random Fast
		224–255	LED ON 2
87	Dimmer 7	0–255	
88	Dimmer 7 Fine	0–255	Fine adjustment of CH 87
89	Color Temperature 3	0–9	RGBL
		10–21	RGB
		22–255	CTC (8000–2500 K)

CH	Function	DMX	Description
90	Zoom 3	0–255	3–35°
91	Zoom 3 Fine	0–255	Fine adjustment of CH 90
93	Dimmer 8	0–255	
94	Dimmer 8 Fine	0–255	Fine adjustment of CH 93
95	Red 8	0–255	
96	Green 8	0–255	
97	Blue 8	0–255	
98	Dimmer 9	0–255	
99	Red 9	0–255	
100	Green 9	0–255	
101	Blue 9	0–255	
102	Liquid Patterns 3	0–9	No Chase
		10–63	Chase 1...54
		64–255	Liquid Patterns
103	Liquid Speed 3	0–255	
104	Liquid Size 3	0–255	
106	Pan 4	0–255	542.1°
107	Pan 4 Fine	0–255	Fine adjustment of CH 106
108	Tilt 4	0–255	271.1°
109	Tilt 4 Fine	0–255	Fine adjustment of CH 108
110	Pan Rotation 4	0–31	PAN CR Stop
		32	Stop by SpinOut
		33–84	Stop by SpinOut ... Stop by ShortCut
		85	Stop by ShortCut
		86–127	PAN CR Stop
		128	CW max
		129–188	CW max ... CW min
		189	CW min
		190–193	Pause
		194	CCW min
		195–254	CCW min ... CCW max
		255	CCW max
111	Tilt Rotation 4	0–31	Tilt CR Stop
		32	Stop by SpinOut
		33–84	Stop by SpinOut ... Stop by ShortCut
		85	Stop by ShortCut
		86–127	Tilt CR Stop
		128	CW max
		129–188	CW max ... CW min
		189	CW min
		190–193	Pause
		194	CCW min

CH	Function	DMX	Description
111	Tilt Rotation 4 (continued)	195–254	CCW min ... CCW max
		255	CCW max
112	Tint 4	0	Tint Off
		1–255	Tint
113	Red 10	0–255	
114	Red 10 Fine	0–255	Fine adjustment of CH 113
115	Green 10	0–255	
116	Green 10 Fine	0–255	Fine adjustment of CH 115
117	Blue 10	0–255	
118	Blue 10 Fine	0–255	Fine adjustment of CH 117
119	Lime 4	0–255	
120	Lime 4 Fine	0–255	Fine adjustment of CH 119
121	Shutter 4	0–31	Led OFF
		32–63	Led ON
		64	Strobe slow
		65–75	Strobe slow ... Strobe Mid
		76	Strobe Mid
		77–94	Strobe Mid ... Strobe Fast
		95	Strobe Fast
		96–127	LED ON
		128	Pulse Slow
		129–142	Pulse Slow ... Pulse Mid
		143	Pulse Mid
		144–158	Pulse Mid ... Pulse Fast
		159	Pulse Fast
		160–191	LED ON 1
		192	Random Slow
		193–199	Random Slow ... Random Mid
		200	Random Mid
		201–222	Random Mid ... Random Fast
		223	Random Fast
		224–255	LED ON 2
122	Dimmer 10	0–255	
123	Dimmer 10 Fine	0–255	Fine adjustment of CH 122
124	Color Temperature 4	0–9	RGBL
		10–21	RGB
		22–255	CTC (8000–2500 K)
125	Zoom 4	0–255	3–35°
126	Zoom 4 Fine	0–255	Fine adjustment of CH 125
128	Dimmer 11	0–255	
129	Dimmer 11 Fine	0–255	Fine adjustment of CH 128
130	Red 11	0–255	

CH	Function	DMX	Description
131	Green 11	0–255	
132	Blue 11	0–255	
133	Dimmer 12	0–255	
134	Red 12	0–255	
135	Green 12	0–255	
136	Blue 12	0–255	
137	Liquid Patterns 4	0–9	No Chase
		10–63	Chase 1...54
		64–255	Liquid Patterns
138	Liquid Speed 4	0–255	
139	Liquid Size 4	0–255	
141	Pan 5	0–255	542.1°
142	Pan 5 Fine	0–255	Fine adjustment of CH 141
143	Tilt 5	0–255	271.1°
144	Tilt 5 Fine	0–255	Fine adjustment of CH 143
145	Pan Rotation 5	0–31	PAN CR Stop
		32	Stop by SpinOut
		33–84	Stop by SpinOut ... Stop by ShortCut
		85	Stop by ShortCut
		86–127	PAN CR Stop
		128	CW max
		129–188	CW max ... CW min
		189	CW min
		190–193	Pause
		194	CCW min
		195–254	CCW min ... CCW max
		255	CCW max
146	Tilt Rotation 5	0–31	Tilt CR Stop
		32	Stop by SpinOut
		33–84	Stop by SpinOut ... Stop by ShortCut
		85	Stop by ShortCut
		86–127	Tilt CR Stop
		128	CW max
		129–188	CW max ... CW min
		189	CW min
		190–193	Pause
		194	CCW min
		195–254	CCW min ... CCW max
		255	CCW max
147	Tint 5	0	Tint Off
		1–255	Tint
148	Red 13	0–255	

CH	Function	DMX	Description
149	Red 13 Fine	0–255	Fine adjustment of CH 148
150	Green 13	0–255	
151	Green 13 Fine	0–255	Fine adjustment of CH 150
152	Blue 13	0–255	
153	Blue 13 Fine	0–255	Fine adjustment of CH 152
154	Lime 5	0–255	
155	Lime 5 Fine	0–255	Fine adjustment of CH 154
156	Shutter 5	0–31	Led OFF
		32–63	Led ON
		64	Strobe slow
		65–75	Strobe slow ... Strobe Mid
		76	Strobe Mid
		77–94	Strobe Mid ... Strobe Fast
		95	Strobe Fast
		96–127	LED ON
		128	Pulse Slow
		129–142	Pulse Slow ... Pulse Mid
		143	Pulse Mid
		144–158	Pulse Mid ... Pulse Fast
		159	Pulse Fast
		160–191	LED ON 1
		192	Random Slow
		193–199	Random Slow ... Random Mid
		200	Random Mid
		201–222	Random Mid ... Random Fast
		223	Random Fast
		224–255	LED ON 2
157	Dimmer 13	0–255	
158	Dimmer 13 Fine	0–255	Fine adjustment of CH 157
159	Color Temperature 5	0–9	RGBL
		10–21	RGB
		22–255	CTC (8000–2500 K)
160	Zoom 5	0–255	3–35°
161	Zoom 5 Fine	0–255	Fine adjustment of CH 160
163	Dimmer 14	0–255	
164	Dimmer 14 Fine	0–255	Fine adjustment of CH 163
165	Red 14	0–255	
166	Green 14	0–255	
167	Blue 14	0–255	
168	Dimmer 15	0–255	
169	Red 15	0–255	
170	Green 15	0–255	

CH	Function	DMX	Description
171	Blue 15	0–255	
172	Liquid Patterns 5	0–9	No Chase
		10–63	Chase 1...54
		64–255	Liquid Patterns
173	Liquid Speed 5	0–255	
174	Liquid Size 5	0–255	
176	Chase Patterns	0–9	Chse OFF
		10–14	Chase 1
		15–19	Chase 2
		20–24	Chase 3
		25–29	Chase 4
		30–34	Chase 5
		35–39	Chase 6
		40–44	Chase Fix
		45–255	No function
177	Chase Speed	0–125	Fast to Slow Backward
		126–130	Empty Channel Set
		131–255	Slow to Fast Forward
178	Chase Fade	0–255	
179	Chase Size	0–255	
180	Red 16	0–255	
181	Green 16	0–255	
182	Blue 16	0–255	
183	Lime 6	0–255	
184	Dimmer 16	0–255	

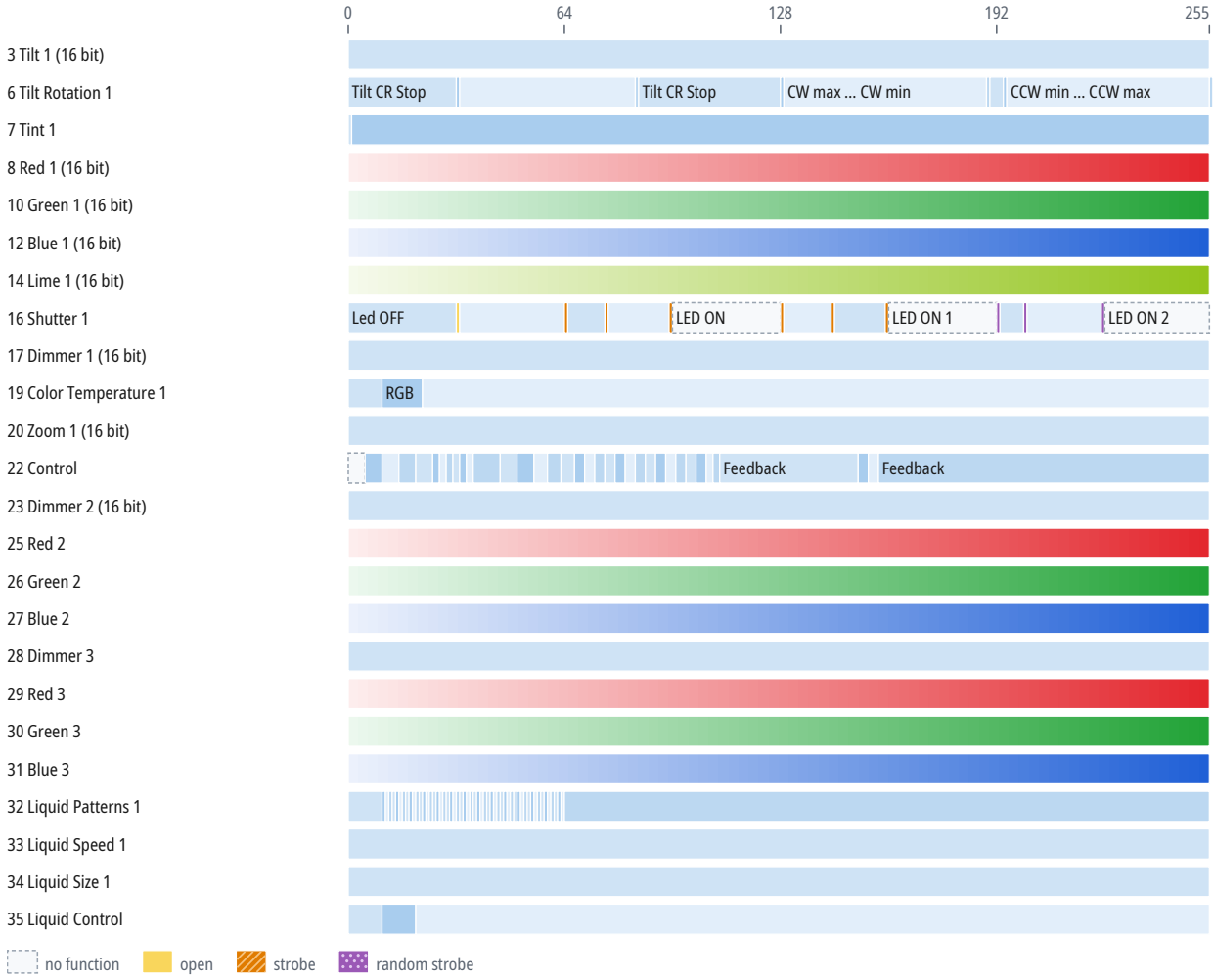
Mode Extended

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 16 Shutter 1 at 32–63 or 96–127; CH 17 Dimmer 1 above 0; CH 23 Dimmer 2 above 0; CH 28 Dimmer 3 above 0; CH 51 Shutter 2 at 32–63 or 96–127; CH 52 Dimmer 4 above 0; CH 58 Dimmer 5 above 0; CH 63 Dimmer 6 above 0; CH 86 Shutter 3 at 32–63 or 96–127; CH 87 Dimmer 7 above 0; CH 93 Dimmer 8 above 0; CH 98 Dimmer 9 above 0; CH 121 Shutter 4 at 32–63 or 96–127; CH 122 Dimmer 10 above 0; CH 128 Dimmer 11 above 0; CH 133 Dimmer 12 above 0; CH 156 Shutter 5 at 32–63 or 96–127; CH 157 Dimmer 13 above 0; CH 163 Dimmer 14 above 0; CH 168 Dimmer 15 above 0. The GDTF file gives these values for a console's Highlight function: CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 Lime 1 255, CH 16 Shutter 1 32, CH 17 Dimmer 1 255, CH 19 Color Temperature 1 0, CH 23 Dimmer 2 255, CH 25 Red 2 255, CH 26 Green 2 255, CH 27 Blue 2 255, CH 43 Red 4 255, CH 45 Green 4 255, CH 47 Blue 4 255, CH 49 Lime 2 255, CH 51 Shutter 2 32, CH 52 Dimmer 4 255, CH 54 Color Temperature 2 0, CH 58 Dimmer 5 255, CH 60 Red 5 255, CH 61 Green 5 255, CH 62 Blue 5 255, CH 78 Red 7 255, CH 80 Green 7 255, CH 82 Blue 7 255, CH 84 Lime 3 255, CH 86 Shutter 3 32, CH 87 Dimmer 7 255, CH 89 Color Temperature 3 0, CH 93 Dimmer 8 255, CH 95 Red 8 255, CH 96 Green 8 255, CH 97 Blue 8 255, CH 113 Red 10 255, CH 115 Green 10 255, CH 117 Blue 10 255, CH 119 Lime 4 255, CH 121 Shutter 4 32, CH 122 Dimmer 10 255, CH 124 Color Temperature 4 0, CH 128 Dimmer 11 255, CH 130 Red 11 255, CH 131 Green 11 255, CH 132 Blue 11 255, CH 148 Red 13 255, CH 150 Green 13 255, CH 152 Blue 13 255, CH 154 Lime 5 255, CH

156 Shutter 5 32, CH 157 Dimmer 13 255, CH 159 Color Temperature 5 0, CH 163 Dimmer 14 255, CH 165 Red 14 255, CH 166 Green 14 255, CH 167 Blue 14 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan 1	0–255	542.1°
2	Pan 1 Fine	0–255	Fine adjustment of CH 1
3	Tilt 1	0–255	271.1°
4	Tilt 1 Fine	0–255	Fine adjustment of CH 3
5	Pan Rotation 1		Same as CH 5 in the mode “Extended_Chase” (p. 12)
6	Tilt Rotation 1		Same as CH 6 in the mode “Extended_Chase” (p. 13)
7	Tint 1		Same as CH 7 in the mode “Extended_Chase” (p. 13)
8	Red 1	0–255	
9	Red 1 Fine	0–255	Fine adjustment of CH 8
10	Green 1	0–255	
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1	0–255	
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	Lime 1	0–255	
15	Lime 1 Fine	0–255	Fine adjustment of CH 14

CH	Function	DMX	Description
16	Shutter 1		Same as CH 16 in the mode “Extended_Chase” (p. 13)
17	Dimmer 1	0–255	
18	Dimmer 1 Fine	0–255	Fine adjustment of CH 17
19	Color Temperature 1		Same as CH 19 in the mode “Extended_Chase” (p. 14)
20	Zoom 1	0–255	3–35°
21	Zoom 1 Fine	0–255	Fine adjustment of CH 20
22	Control		Same as CH 22 in the mode “Extended_Chase” (p. 14)
23	Dimmer 2	0–255	
24	Dimmer 2 Fine	0–255	Fine adjustment of CH 23
25	Red 2	0–255	
26	Green 2	0–255	
27	Blue 2	0–255	
28	Dimmer 3	0–255	
29	Red 3	0–255	
30	Green 3	0–255	
31	Blue 3	0–255	
32	Liquid Patterns 1		Same as CH 32 in the mode “Extended_Chase” (p. 15)
33	Liquid Speed 1	0–255	
34	Liquid Size 1	0–255	
35	Liquid Control		Same as CH 35 in the mode “Extended_Chase” (p. 15)
36	Pan 2	0–255	542.1°
37	Pan 2 Fine	0–255	Fine adjustment of CH 36
38	Tilt 2	0–255	271.1°
39	Tilt 2 Fine	0–255	Fine adjustment of CH 38
40	Pan Rotation 2		Same as CH 40 in the mode “Extended_Chase” (p. 15)
41	Tilt Rotation 2		Same as CH 41 in the mode “Extended_Chase” (p. 16)
42	Tint 2		Same as CH 42 in the mode “Extended_Chase” (p. 16)
43	Red 4	0–255	
44	Red 4 Fine	0–255	Fine adjustment of CH 43
45	Green 4	0–255	
46	Green 4 Fine	0–255	Fine adjustment of CH 45
47	Blue 4	0–255	
48	Blue 4 Fine	0–255	Fine adjustment of CH 47
49	Lime 2	0–255	
50	Lime 2 Fine	0–255	Fine adjustment of CH 49
51	Shutter 2		Same as CH 51 in the mode “Extended_Chase” (p. 16)
52	Dimmer 4	0–255	
53	Dimmer 4 Fine	0–255	Fine adjustment of CH 52
54	Color Temperature 2		Same as CH 54 in the mode “Extended_Chase” (p. 17)
55	Zoom 2	0–255	3–35°
56	Zoom 2 Fine	0–255	Fine adjustment of CH 55
58	Dimmer 5	0–255	

CH	Function	DMX	Description
59	Dimmer 5 Fine	0–255	Fine adjustment of CH 58
60	Red 5	0–255	
61	Green 5	0–255	
62	Blue 5	0–255	
63	Dimmer 6	0–255	
64	Red 6	0–255	
65	Green 6	0–255	
66	Blue 6	0–255	
67	Liquid Patterns 2		Same as CH 67 in the mode “Extended_Chase” (p. 17)
68	Liquid Speed 2	0–255	
69	Liquid Size 2	0–255	
71	Pan 3	0–255	542.1°
72	Pan 3 Fine	0–255	Fine adjustment of CH 71
73	Tilt 3	0–255	271.1°
74	Tilt 3 Fine	0–255	Fine adjustment of CH 73
75	Pan Rotation 3		Same as CH 75 in the mode “Extended_Chase” (p. 17)
76	Tilt Rotation 3		Same as CH 76 in the mode “Extended_Chase” (p. 17)
77	Tint 3		Same as CH 77 in the mode “Extended_Chase” (p. 18)
78	Red 7	0–255	
79	Red 7 Fine	0–255	Fine adjustment of CH 78
80	Green 7	0–255	
81	Green 7 Fine	0–255	Fine adjustment of CH 80
82	Blue 7	0–255	
83	Blue 7 Fine	0–255	Fine adjustment of CH 82
84	Lime 3	0–255	
85	Lime 3 Fine	0–255	Fine adjustment of CH 84
86	Shutter 3		Same as CH 86 in the mode “Extended_Chase” (p. 18)
87	Dimmer 7	0–255	
88	Dimmer 7 Fine	0–255	Fine adjustment of CH 87
89	Color Temperature 3		Same as CH 89 in the mode “Extended_Chase” (p. 18)
90	Zoom 3	0–255	3–35°
91	Zoom 3 Fine	0–255	Fine adjustment of CH 90
93	Dimmer 8	0–255	
94	Dimmer 8 Fine	0–255	Fine adjustment of CH 93
95	Red 8	0–255	
96	Green 8	0–255	
97	Blue 8	0–255	
98	Dimmer 9	0–255	
99	Red 9	0–255	
100	Green 9	0–255	
101	Blue 9	0–255	
102	Liquid Patterns 3		Same as CH 102 in the mode “Extended_Chase” (p. 19)

CH	Function	DMX	Description
103	Liquid Speed 3	0–255	
104	Liquid Size 3	0–255	
106	Pan 4	0–255	542.1°
107	Pan 4 Fine	0–255	Fine adjustment of CH 106
108	Tilt 4	0–255	271.1°
109	Tilt 4 Fine	0–255	Fine adjustment of CH 108
110	Pan Rotation 4		Same as CH 110 in the mode “Extended_Chase” (p. 19)
111	Tilt Rotation 4		Same as CH 111 in the mode “Extended_Chase” (p. 19)
112	Tint 4		Same as CH 112 in the mode “Extended_Chase” (p. 20)
113	Red 10	0–255	
114	Red 10 Fine	0–255	Fine adjustment of CH 113
115	Green 10	0–255	
116	Green 10 Fine	0–255	Fine adjustment of CH 115
117	Blue 10	0–255	
118	Blue 10 Fine	0–255	Fine adjustment of CH 117
119	Lime 4	0–255	
120	Lime 4 Fine	0–255	Fine adjustment of CH 119
121	Shutter 4		Same as CH 121 in the mode “Extended_Chase” (p. 20)
122	Dimmer 10	0–255	
123	Dimmer 10 Fine	0–255	Fine adjustment of CH 122
124	Color Temperature 4		Same as CH 124 in the mode “Extended_Chase” (p. 20)
125	Zoom 4	0–255	3–35°
126	Zoom 4 Fine	0–255	Fine adjustment of CH 125
128	Dimmer 11	0–255	
129	Dimmer 11 Fine	0–255	Fine adjustment of CH 128
130	Red 11	0–255	
131	Green 11	0–255	
132	Blue 11	0–255	
133	Dimmer 12	0–255	
134	Red 12	0–255	
135	Green 12	0–255	
136	Blue 12	0–255	
137	Liquid Patterns 4		Same as CH 137 in the mode “Extended_Chase” (p. 21)
138	Liquid Speed 4	0–255	
139	Liquid Size 4	0–255	
141	Pan 5	0–255	542.1°
142	Pan 5 Fine	0–255	Fine adjustment of CH 141
143	Tilt 5	0–255	271.1°
144	Tilt 5 Fine	0–255	Fine adjustment of CH 143
145	Pan Rotation 5		Same as CH 145 in the mode “Extended_Chase” (p. 21)
146	Tilt Rotation 5		Same as CH 146 in the mode “Extended_Chase” (p. 21)
147	Tint 5		Same as CH 147 in the mode “Extended_Chase” (p. 21)

CH	Function	DMX	Description
148	Red 13	0–255	
149	Red 13 Fine	0–255	Fine adjustment of CH 148
150	Green 13	0–255	
151	Green 13 Fine	0–255	Fine adjustment of CH 150
152	Blue 13	0–255	
153	Blue 13 Fine	0–255	Fine adjustment of CH 152
154	Lime 5	0–255	
155	Lime 5 Fine	0–255	Fine adjustment of CH 154
156	Shutter 5		Same as CH 156 in the mode “Extended_Chase” (p. 22)
157	Dimmer 13	0–255	
158	Dimmer 13 Fine	0–255	Fine adjustment of CH 157
159	Color Temperature 5		Same as CH 159 in the mode “Extended_Chase” (p. 22)
160	Zoom 5	0–255	3–35°
161	Zoom 5 Fine	0–255	Fine adjustment of CH 160
163	Dimmer 14	0–255	
164	Dimmer 14 Fine	0–255	Fine adjustment of CH 163
165	Red 14	0–255	
166	Green 14	0–255	
167	Blue 14	0–255	
168	Dimmer 15	0–255	
169	Red 15	0–255	
170	Green 15	0–255	
171	Blue 15	0–255	
172	Liquid Patterns 5		Same as CH 172 in the mode “Extended_Chase” (p. 23)
173	Liquid Speed 5	0–255	
174	Liquid Size 5	0–255	

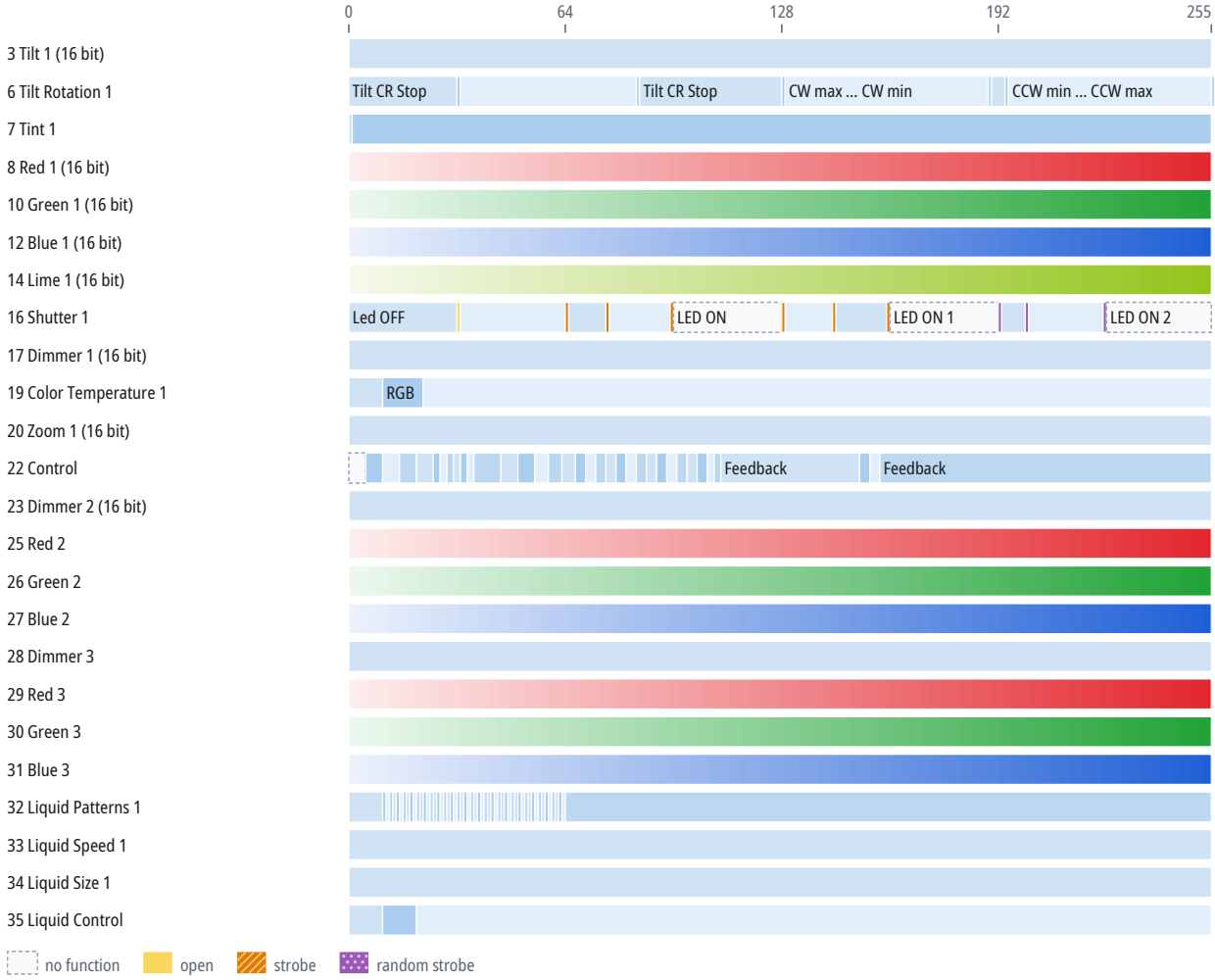
Mode Extended+Liquid

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 16 Shutter 1 at 32–63 or 96–127; CH 17 Dimmer 1 above 0; CH 23 Dimmer 2 above 0; CH 28 Dimmer 3 above 0; CH 51 Shutter 2 at 32–63 or 96–127; CH 52 Dimmer 4 above 0; CH 58 Dimmer 5 above 0; CH 63 Dimmer 6 above 0; CH 86 Shutter 3 at 32–63 or 96–127; CH 87 Dimmer 7 above 0; CH 93 Dimmer 8 above 0; CH 98 Dimmer 9 above 0; CH 121 Shutter 4 at 32–63 or 96–127; CH 122 Dimmer 10 above 0; CH 128 Dimmer 11 above 0; CH 133 Dimmer 12 above 0; CH 156 Shutter 5 at 32–63 or 96–127; CH 157 Dimmer 13 above 0; CH 163 Dimmer 14 above 0; CH 168 Dimmer 15 above 0. The GDTF file gives these values for a console's Highlight function: CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 Lime 1 255, CH 16 Shutter 1 32, CH 17 Dimmer 1 255, CH 19 Color Temperature 1 0, CH 23 Dimmer 2 255, CH 25 Red 2 255, CH 26 Green 2 255, CH 27 Blue 2 255, CH 43 Red 4 255, CH 45 Green 4 255, CH 47 Blue 4 255, CH 49 Lime 2 255, CH 51 Shutter 2 32, CH 52 Dimmer 4 255, CH 54 Color Temperature 2 0, CH 58 Dimmer 5 255, CH 60 Red 5 255, CH 61 Green 5 255, CH 62 Blue 5 255, CH 78 Red 7 255, CH 80 Green 7 255, CH 82 Blue 7 255, CH 84 Lime 3 255, CH 86 Shutter 3 32, CH 87 Dimmer 7 255, CH 89 Color Temperature 3 0, CH 93 Dimmer 8 255, CH 95 Red 8 255, CH 96 Green 8 255, CH 97 Blue 8 255, CH 113 Red 10 255, CH 115 Green 10 255, CH 117 Blue 10 255, CH 119 Lime 4 255, CH 121 Shutter 4 32, CH 122 Dimmer 10 255, CH 124 Color Temperature 4 0, CH 128 Dimmer 11 255, CH 130 Red 11 255, CH 131 Green 11 255, CH

132 Blue 11 255, CH 148 Red 13 255, CH 150 Green 13 255, CH 152 Blue 13 255, CH 154 Lime 5 255, CH 156 Shutter 5 32, CH 157 Dimmer 13 255, CH 159 Color Temperature 5 0, CH 163 Dimmer 14 255, CH 165 Red 14 255, CH 166 Green 14 255, CH 167 Blue 14 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan 1	0–255	542.1°
2	Pan 1 Fine	0–255	Fine adjustment of CH 1
3	Tilt 1	0–255	271.1°
4	Tilt 1 Fine	0–255	Fine adjustment of CH 3
5	Pan Rotation 1		Same as CH 5 in the mode “Extended_Chase” (p. 12)
6	Tilt Rotation 1		Same as CH 6 in the mode “Extended_Chase” (p. 13)
7	Tint 1		Same as CH 7 in the mode “Extended_Chase” (p. 13)
8	Red 1	0–255	
9	Red 1 Fine	0–255	Fine adjustment of CH 8
10	Green 1	0–255	
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1	0–255	
13	Blue 1 Fine	0–255	Fine adjustment of CH 12

CH	Function	DMX	Description
14	Lime 1	0–255	
15	Lime 1 Fine	0–255	Fine adjustment of CH 14
16	Shutter 1		Same as CH 16 in the mode “Extended_Chase” (p. 13)
17	Dimmer 1	0–255	
18	Dimmer 1 Fine	0–255	Fine adjustment of CH 17
19	Color Temperature 1		Same as CH 19 in the mode “Extended_Chase” (p. 14)
20	Zoom 1	0–255	3–35°
21	Zoom 1 Fine	0–255	Fine adjustment of CH 20
22	Control		Same as CH 22 in the mode “Extended_Chase” (p. 14)
23	Dimmer 2	0–255	
24	Dimmer 2 Fine	0–255	Fine adjustment of CH 23
25	Red 2	0–255	
26	Green 2	0–255	
27	Blue 2	0–255	
28	Dimmer 3	0–255	
29	Red 3	0–255	
30	Green 3	0–255	
31	Blue 3	0–255	
32	Liquid Patterns 1		Same as CH 32 in the mode “Extended_Chase” (p. 15)
33	Liquid Speed 1	0–255	
34	Liquid Size 1	0–255	
35	Liquid Control		Same as CH 35 in the mode “Extended_Chase” (p. 15)
36	Pan 2	0–255	542.1°
37	Pan 2 Fine	0–255	Fine adjustment of CH 36
38	Tilt 2	0–255	271.1°
39	Tilt 2 Fine	0–255	Fine adjustment of CH 38
40	Pan Rotation 2		Same as CH 40 in the mode “Extended_Chase” (p. 15)
41	Tilt Rotation 2		Same as CH 41 in the mode “Extended_Chase” (p. 16)
42	Tint 2		Same as CH 42 in the mode “Extended_Chase” (p. 16)
43	Red 4	0–255	
44	Red 4 Fine	0–255	Fine adjustment of CH 43
45	Green 4	0–255	
46	Green 4 Fine	0–255	Fine adjustment of CH 45
47	Blue 4	0–255	
48	Blue 4 Fine	0–255	Fine adjustment of CH 47
49	Lime 2	0–255	
50	Lime 2 Fine	0–255	Fine adjustment of CH 49
51	Shutter 2		Same as CH 51 in the mode “Extended_Chase” (p. 16)
52	Dimmer 4	0–255	
53	Dimmer 4 Fine	0–255	Fine adjustment of CH 52
54	Color Temperature 2		Same as CH 54 in the mode “Extended_Chase” (p. 17)

CH	Function	DMX	Description
55	Zoom 2	0–255	3–35°
56	Zoom 2 Fine	0–255	Fine adjustment of CH 55
58	Dimmer 5	0–255	
59	Dimmer 5 Fine	0–255	Fine adjustment of CH 58
60	Red 5	0–255	
61	Green 5	0–255	
62	Blue 5	0–255	
63	Dimmer 6	0–255	
64	Red 6	0–255	
65	Green 6	0–255	
66	Blue 6	0–255	
67	Liquid Patterns 2		Same as CH 67 in the mode “Extended_Chase” (p. 17)
68	Liquid Speed 2	0–255	
69	Liquid Size 2	0–255	
71	Pan 3	0–255	542.1°
72	Pan 3 Fine	0–255	Fine adjustment of CH 71
73	Tilt 3	0–255	271.1°
74	Tilt 3 Fine	0–255	Fine adjustment of CH 73
75	Pan Rotation 3		Same as CH 75 in the mode “Extended_Chase” (p. 17)
76	Tilt Rotation 3		Same as CH 76 in the mode “Extended_Chase” (p. 17)
77	Tint 3		Same as CH 77 in the mode “Extended_Chase” (p. 18)
78	Red 7	0–255	
79	Red 7 Fine	0–255	Fine adjustment of CH 78
80	Green 7	0–255	
81	Green 7 Fine	0–255	Fine adjustment of CH 80
82	Blue 7	0–255	
83	Blue 7 Fine	0–255	Fine adjustment of CH 82
84	Lime 3	0–255	
85	Lime 3 Fine	0–255	Fine adjustment of CH 84
86	Shutter 3		Same as CH 86 in the mode “Extended_Chase” (p. 18)
87	Dimmer 7	0–255	
88	Dimmer 7 Fine	0–255	Fine adjustment of CH 87
89	Color Temperature 3		Same as CH 89 in the mode “Extended_Chase” (p. 18)
90	Zoom 3	0–255	3–35°
91	Zoom 3 Fine	0–255	Fine adjustment of CH 90
93	Dimmer 8	0–255	
94	Dimmer 8 Fine	0–255	Fine adjustment of CH 93
95	Red 8	0–255	
96	Green 8	0–255	
97	Blue 8	0–255	
98	Dimmer 9	0–255	

CH	Function	DMX	Description
99	Red 9	0–255	
100	Green 9	0–255	
101	Blue 9	0–255	
102	Liquid Patterns 3		Same as CH 102 in the mode “Extended_Chase” (p. 19)
103	Liquid Speed 3	0–255	
104	Liquid Size 3	0–255	
106	Pan 4	0–255	542.1°
107	Pan 4 Fine	0–255	Fine adjustment of CH 106
108	Tilt 4	0–255	271.1°
109	Tilt 4 Fine	0–255	Fine adjustment of CH 108
110	Pan Rotation 4		Same as CH 110 in the mode “Extended_Chase” (p. 19)
111	Tilt Rotation 4		Same as CH 111 in the mode “Extended_Chase” (p. 19)
112	Tint 4		Same as CH 112 in the mode “Extended_Chase” (p. 20)
113	Red 10	0–255	
114	Red 10 Fine	0–255	Fine adjustment of CH 113
115	Green 10	0–255	
116	Green 10 Fine	0–255	Fine adjustment of CH 115
117	Blue 10	0–255	
118	Blue 10 Fine	0–255	Fine adjustment of CH 117
119	Lime 4	0–255	
120	Lime 4 Fine	0–255	Fine adjustment of CH 119
121	Shutter 4		Same as CH 121 in the mode “Extended_Chase” (p. 20)
122	Dimmer 10	0–255	
123	Dimmer 10 Fine	0–255	Fine adjustment of CH 122
124	Color Temperature 4		Same as CH 124 in the mode “Extended_Chase” (p. 20)
125	Zoom 4	0–255	3–35°
126	Zoom 4 Fine	0–255	Fine adjustment of CH 125
128	Dimmer 11	0–255	
129	Dimmer 11 Fine	0–255	Fine adjustment of CH 128
130	Red 11	0–255	
131	Green 11	0–255	
132	Blue 11	0–255	
133	Dimmer 12	0–255	
134	Red 12	0–255	
135	Green 12	0–255	
136	Blue 12	0–255	
137	Liquid Patterns 4		Same as CH 137 in the mode “Extended_Chase” (p. 21)
138	Liquid Speed 4	0–255	
139	Liquid Size 4	0–255	
141	Pan 5	0–255	542.1°
142	Pan 5 Fine	0–255	Fine adjustment of CH 141

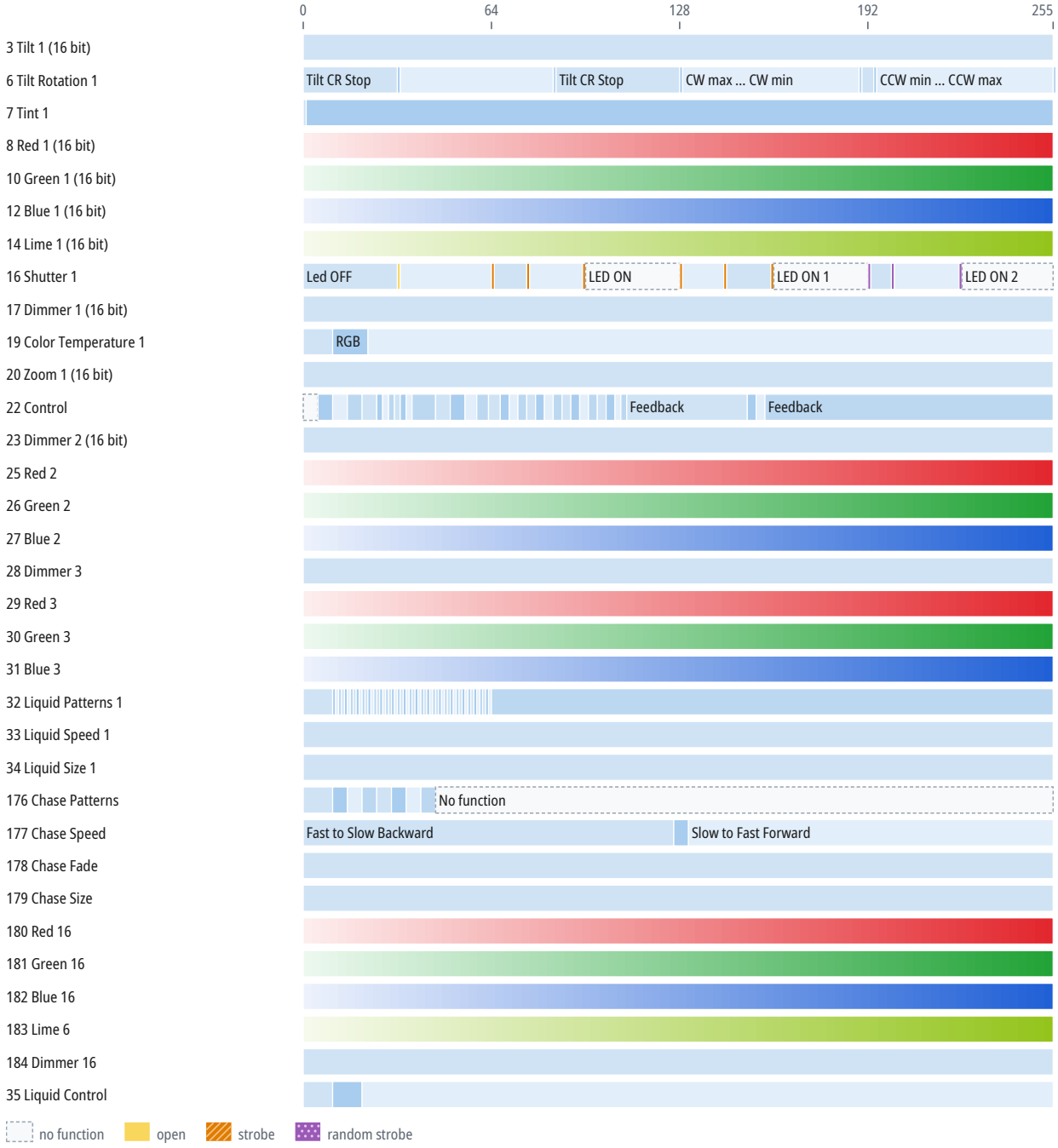
CH	Function	DMX	Description
143	Tilt 5	0–255	271.1°
144	Tilt 5 Fine	0–255	Fine adjustment of CH 143
145	Pan Rotation 5		Same as CH 145 in the mode “Extended_Chase” (p. 21)
146	Tilt Rotation 5		Same as CH 146 in the mode “Extended_Chase” (p. 21)
147	Tint 5		Same as CH 147 in the mode “Extended_Chase” (p. 21)
148	Red 13	0–255	
149	Red 13 Fine	0–255	Fine adjustment of CH 148
150	Green 13	0–255	
151	Green 13 Fine	0–255	Fine adjustment of CH 150
152	Blue 13	0–255	
153	Blue 13 Fine	0–255	Fine adjustment of CH 152
154	Lime 5	0–255	
155	Lime 5 Fine	0–255	Fine adjustment of CH 154
156	Shutter 5		Same as CH 156 in the mode “Extended_Chase” (p. 22)
157	Dimmer 13	0–255	
158	Dimmer 13 Fine	0–255	Fine adjustment of CH 157
159	Color Temperature 5		Same as CH 159 in the mode “Extended_Chase” (p. 22)
160	Zoom 5	0–255	3–35°
161	Zoom 5 Fine	0–255	Fine adjustment of CH 160
163	Dimmer 14	0–255	
164	Dimmer 14 Fine	0–255	Fine adjustment of CH 163
165	Red 14	0–255	
166	Green 14	0–255	
167	Blue 14	0–255	
168	Dimmer 15	0–255	
169	Red 15	0–255	
170	Green 15	0–255	
171	Blue 15	0–255	
172	Liquid Patterns 5		Same as CH 172 in the mode “Extended_Chase” (p. 23)
173	Liquid Speed 5	0–255	
174	Liquid Size 5	0–255	
175	Red 16	0–255	
176	Green 16	0–255	
177	Blue 16	0–255	

Mode Extended_Chase+Liquid

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 16 Shutter 1 at 32–63 or 96–127; CH 17 Dimmer 1 above 0; CH 23 Dimmer 2 above 0; CH 28 Dimmer 3 above 0; CH 51 Shutter 2 at 32–63 or 96–127; CH 52 Dimmer 4 above 0; CH 58 Dimmer 5 above 0; CH 63 Dimmer 6 above 0; CH 86 Shutter 3 at 32–63 or 96–127; CH 87 Dimmer 7 above 0; CH 93 Dimmer 8 above 0; CH 98 Dimmer 9 above 0; CH 121 Shutter 4 at 32–63 or 96–127; CH 122 Dimmer 10 above 0; CH 128 Dimmer 11 above 0; CH 133 Dimmer 12 above 0; CH 156 Shutter 5 at 32–63 or 96–127; CH 157 Dimmer 13 above 0; CH 163 Dimmer 14 above 0; CH 168 Dimmer 15 above 0; CH 184 Dimmer 16 above 0. The GDTF file gives these values for a console's Highlight function: CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 Lime 1 255, CH 16 Shutter 1 32, CH 17 Dimmer 1 255, CH 19 Color Temperature 1 0, CH 23 Dimmer 2 255, CH 25 Red 2 255, CH 26 Green 2 255, CH 27 Blue 2 255, CH 43 Red 4 255, CH 45 Green 4 255, CH 47 Blue 4 255, CH 49 Lime 2 255, CH 51 Shutter 2 32, CH 52 Dimmer 4 255, CH 54 Color Temperature 2 0, CH 58 Dimmer 5 255, CH 60 Red 5 255, CH 61 Green 5 255, CH 62 Blue 5 255, CH 78 Red 7 255, CH 80 Green 7 255, CH 82 Blue 7 255, CH 84 Lime 3 255, CH 86 Shutter 3 32, CH 87 Dimmer 7 255, CH 89 Color Temperature 3 0, CH 93 Dimmer 8 255, CH 95 Red 8 255, CH 96 Green 8 255, CH 97 Blue 8 255, CH 113 Red 10 255, CH 115 Green 10 255, CH 117 Blue 10 255, CH 119 Lime 4 255, CH 121 Shutter 4 32, CH 122 Dimmer 10 255, CH 124 Color Temperature 4 0, CH 128 Dimmer 11 255, CH 130 Red 11 255, CH 131 Green 11 255, CH 132 Blue 11 255, CH 148 Red 13 255, CH 150 Green 13 255, CH 152 Blue 13 255, CH 154 Lime 5 255, CH 156 Shutter 5 32, CH 157 Dimmer 13 255, CH 159 Color Temperature 5 0, CH 163 Dimmer 14 255, CH 165 Red 14 255, CH 166 Green 14 255, CH 167 Blue 14 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan 1	0–255	542.1°
2	Pan 1 Fine	0–255	Fine adjustment of CH 1
3	Tilt 1	0–255	271.1°
4	Tilt 1 Fine	0–255	Fine adjustment of CH 3
5	Pan Rotation 1		Same as CH 5 in the mode “Extended_Chase” (p. 12)
6	Tilt Rotation 1		Same as CH 6 in the mode “Extended_Chase” (p. 13)
7	Tint 1		Same as CH 7 in the mode “Extended_Chase” (p. 13)
8	Red 1	0–255	

CH	Function	DMX	Description
9	Red 1 Fine	0–255	Fine adjustment of CH 8
10	Green 1	0–255	
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1	0–255	
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	Lime 1	0–255	
15	Lime 1 Fine	0–255	Fine adjustment of CH 14
16	Shutter 1		Same as CH 16 in the mode “Extended_Chase” (p. 13)
17	Dimmer 1	0–255	
18	Dimmer 1 Fine	0–255	Fine adjustment of CH 17
19	Color Temperature 1		Same as CH 19 in the mode “Extended_Chase” (p. 14)
20	Zoom 1	0–255	3–35°
21	Zoom 1 Fine	0–255	Fine adjustment of CH 20
22	Control		Same as CH 22 in the mode “Extended_Chase” (p. 14)
23	Dimmer 2	0–255	
24	Dimmer 2 Fine	0–255	Fine adjustment of CH 23
25	Red 2	0–255	
26	Green 2	0–255	
27	Blue 2	0–255	
28	Dimmer 3	0–255	
29	Red 3	0–255	
30	Green 3	0–255	
31	Blue 3	0–255	
32	Liquid Patterns 1		Same as CH 32 in the mode “Extended_Chase” (p. 15)
33	Liquid Speed 1	0–255	
34	Liquid Size 1	0–255	
35	Liquid Control		Same as CH 35 in the mode “Extended_Chase” (p. 15)
36	Pan 2	0–255	542.1°
37	Pan 2 Fine	0–255	Fine adjustment of CH 36
38	Tilt 2	0–255	271.1°
39	Tilt 2 Fine	0–255	Fine adjustment of CH 38
40	Pan Rotation 2		Same as CH 40 in the mode “Extended_Chase” (p. 15)
41	Tilt Rotation 2		Same as CH 41 in the mode “Extended_Chase” (p. 16)
42	Tint 2		Same as CH 42 in the mode “Extended_Chase” (p. 16)
43	Red 4	0–255	
44	Red 4 Fine	0–255	Fine adjustment of CH 43
45	Green 4	0–255	
46	Green 4 Fine	0–255	Fine adjustment of CH 45
47	Blue 4	0–255	
48	Blue 4 Fine	0–255	Fine adjustment of CH 47
49	Lime 2	0–255	
50	Lime 2 Fine	0–255	Fine adjustment of CH 49

CH	Function	DMX	Description
51	Shutter 2		Same as CH 51 in the mode “Extended_Chase” (p. 16)
52	Dimmer 4	0–255	
53	Dimmer 4 Fine	0–255	Fine adjustment of CH 52
54	Color Temperature 2		Same as CH 54 in the mode “Extended_Chase” (p. 17)
55	Zoom 2	0–255	3–35°
56	Zoom 2 Fine	0–255	Fine adjustment of CH 55
58	Dimmer 5	0–255	
59	Dimmer 5 Fine	0–255	Fine adjustment of CH 58
60	Red 5	0–255	
61	Green 5	0–255	
62	Blue 5	0–255	
63	Dimmer 6	0–255	
64	Red 6	0–255	
65	Green 6	0–255	
66	Blue 6	0–255	
67	Liquid Patterns 2		Same as CH 67 in the mode “Extended_Chase” (p. 17)
68	Liquid Speed 2	0–255	
69	Liquid Size 2	0–255	
71	Pan 3	0–255	542.1°
72	Pan 3 Fine	0–255	Fine adjustment of CH 71
73	Tilt 3	0–255	271.1°
74	Tilt 3 Fine	0–255	Fine adjustment of CH 73
75	Pan Rotation 3		Same as CH 75 in the mode “Extended_Chase” (p. 17)
76	Tilt Rotation 3		Same as CH 76 in the mode “Extended_Chase” (p. 17)
77	Tint 3		Same as CH 77 in the mode “Extended_Chase” (p. 18)
78	Red 7	0–255	
79	Red 7 Fine	0–255	Fine adjustment of CH 78
80	Green 7	0–255	
81	Green 7 Fine	0–255	Fine adjustment of CH 80
82	Blue 7	0–255	
83	Blue 7 Fine	0–255	Fine adjustment of CH 82
84	Lime 3	0–255	
85	Lime 3 Fine	0–255	Fine adjustment of CH 84
86	Shutter 3		Same as CH 86 in the mode “Extended_Chase” (p. 18)
87	Dimmer 7	0–255	
88	Dimmer 7 Fine	0–255	Fine adjustment of CH 87
89	Color Temperature 3		Same as CH 89 in the mode “Extended_Chase” (p. 18)
90	Zoom 3	0–255	3–35°
91	Zoom 3 Fine	0–255	Fine adjustment of CH 90
93	Dimmer 8	0–255	
94	Dimmer 8 Fine	0–255	Fine adjustment of CH 93
95	Red 8	0–255	

CH	Function	DMX	Description
96	Green 8	0–255	
97	Blue 8	0–255	
98	Dimmer 9	0–255	
99	Red 9	0–255	
100	Green 9	0–255	
101	Blue 9	0–255	
102	Liquid Patterns 3		Same as CH 102 in the mode “Extended_Chase” (p. 19)
103	Liquid Speed 3	0–255	
104	Liquid Size 3	0–255	
106	Pan 4	0–255	542.1°
107	Pan 4 Fine	0–255	Fine adjustment of CH 106
108	Tilt 4	0–255	271.1°
109	Tilt 4 Fine	0–255	Fine adjustment of CH 108
110	Pan Rotation 4		Same as CH 110 in the mode “Extended_Chase” (p. 19)
111	Tilt Rotation 4		Same as CH 111 in the mode “Extended_Chase” (p. 19)
112	Tint 4		Same as CH 112 in the mode “Extended_Chase” (p. 20)
113	Red 10	0–255	
114	Red 10 Fine	0–255	Fine adjustment of CH 113
115	Green 10	0–255	
116	Green 10 Fine	0–255	Fine adjustment of CH 115
117	Blue 10	0–255	
118	Blue 10 Fine	0–255	Fine adjustment of CH 117
119	Lime 4	0–255	
120	Lime 4 Fine	0–255	Fine adjustment of CH 119
121	Shutter 4		Same as CH 121 in the mode “Extended_Chase” (p. 20)
122	Dimmer 10	0–255	
123	Dimmer 10 Fine	0–255	Fine adjustment of CH 122
124	Color Temperature 4		Same as CH 124 in the mode “Extended_Chase” (p. 20)
125	Zoom 4	0–255	3–35°
126	Zoom 4 Fine	0–255	Fine adjustment of CH 125
128	Dimmer 11	0–255	
129	Dimmer 11 Fine	0–255	Fine adjustment of CH 128
130	Red 11	0–255	
131	Green 11	0–255	
132	Blue 11	0–255	
133	Dimmer 12	0–255	
134	Red 12	0–255	
135	Green 12	0–255	
136	Blue 12	0–255	
137	Liquid Patterns 4		Same as CH 137 in the mode “Extended_Chase” (p. 21)
138	Liquid Speed 4	0–255	
139	Liquid Size 4	0–255	

CH	Function	DMX	Description
141	Pan 5	0–255	542.1°
142	Pan 5 Fine	0–255	Fine adjustment of CH 141
143	Tilt 5	0–255	271.1°
144	Tilt 5 Fine	0–255	Fine adjustment of CH 143
145	Pan Rotation 5		Same as CH 145 in the mode “Extended_Chase” (p. 21)
146	Tilt Rotation 5		Same as CH 146 in the mode “Extended_Chase” (p. 21)
147	Tint 5		Same as CH 147 in the mode “Extended_Chase” (p. 21)
148	Red 13	0–255	
149	Red 13 Fine	0–255	Fine adjustment of CH 148
150	Green 13	0–255	
151	Green 13 Fine	0–255	Fine adjustment of CH 150
152	Blue 13	0–255	
153	Blue 13 Fine	0–255	Fine adjustment of CH 152
154	Lime 5	0–255	
155	Lime 5 Fine	0–255	Fine adjustment of CH 154
156	Shutter 5		Same as CH 156 in the mode “Extended_Chase” (p. 22)
157	Dimmer 13	0–255	
158	Dimmer 13 Fine	0–255	Fine adjustment of CH 157
159	Color Temperature 5		Same as CH 159 in the mode “Extended_Chase” (p. 22)
160	Zoom 5	0–255	3–35°
161	Zoom 5 Fine	0–255	Fine adjustment of CH 160
163	Dimmer 14	0–255	
164	Dimmer 14 Fine	0–255	Fine adjustment of CH 163
165	Red 14	0–255	
166	Green 14	0–255	
167	Blue 14	0–255	
168	Dimmer 15	0–255	
169	Red 15	0–255	
170	Green 15	0–255	
171	Blue 15	0–255	
172	Liquid Patterns 5		Same as CH 172 in the mode “Extended_Chase” (p. 23)
173	Liquid Speed 5	0–255	
174	Liquid Size 5	0–255	
176	Chase Patterns		Same as CH 176 in the mode “Extended_Chase” (p. 23)
177	Chase Speed		Same as CH 177 in the mode “Extended_Chase” (p. 23)
178	Chase Fade	0–255	
179	Chase Size	0–255	
180	Red 16	0–255	
181	Green 16	0–255	
182	Blue 16	0–255	
183	Lime 6	0–255	
184	Dimmer 16	0–255	

CH	Function	DMX	Description
185	Red 17	0–255	
186	Green 17	0–255	
187	Blue 17	0–255	

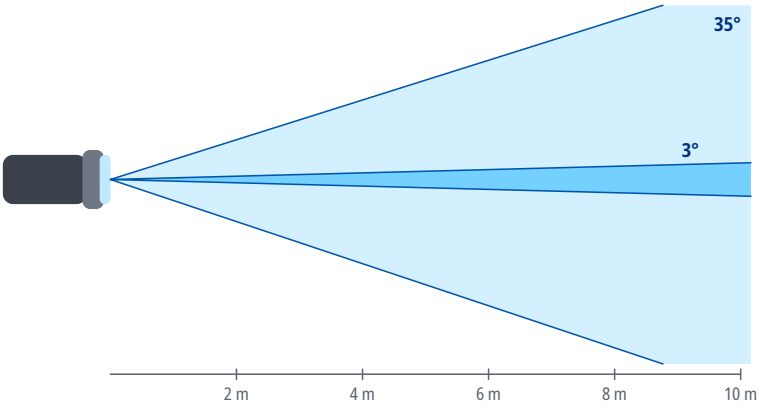
10 Technical specifications

Parameter	Value
Light	
Light source	LED
Optics	
Zoom	3–35°
Movement	
Pan	542.1°
Tilt	271.1°
Control	
DMX connection	5-pin XLR IN/OUT
RJ45 connectors	RJ45 IN/OUT
RDM	yes (manufacturer ID 0x4179, device model ID 0x0B21)
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	800 W
Power connectors	powerCONTRUE1TOP IN/OUT
Dimensions and construction	
Weight	32.4 kg
Operating environment	
Operating temperature	-20 to 45 °C

Speeds and ranges

Parameter	Value
Color temperature range	2500–8000 K
Strobe frequency	0.5–25 Hz
LED frequency	1200–25000 Hz

Spot diameter



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

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

11 Maintenance and cleaning

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

12 Troubleshooting

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

13 Disposal

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

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

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

Recycle the packaging materials according to their type.