DMX REFERENCE

Maverick Storm 2 BeamWash

Chauvet Professional



Manufacturer	Chauvet Professional
GDTF file	Chauvet_Professional_Maverick_Storm_2_BeamWash_169499.gdtf
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1 About this manual

This document describes the Maverick Storm 2 Beamwash by Chauvet Professional. It was compiled from the GDTF file Chauvet_Professional_Maverick_Storm_2_BeamWash_169499.gdtf from the GDTF-Share library.

File revision: “maverick wash”.

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 Chauvet Professional; product names and trademarks belong to their owners.

Safety notices are marked with signal words according to the severity of the hazard: DANGER – an imminent hazard that will result in death or serious injury; WARNING – a potential hazard that could result in death or serious injury; CAUTION – a potential hazard that could result in minor injury or property damage; NOTE – additional information for correct and safe use.

> **NOTE** This product is designed for stage and effect lighting. It is not suitable for household room illumination.

2 Quick reference

Parameter	Value
Weight	23.8 kg
Ingress protection	IP65

DMX modes

Mode	Channels	Units in one universe	First start addresses
Single Control: Basic 31ch	31	16	1, 32, 63, 94, ...
Single Control: Standard 143ch	143	3	1, 144, 287
Single Control: Advanced 263ch	263	1	1
Single Control: Tour 325ch	325	1	1
Single Control: Basic2 37ch	37	13	1, 38, 75, 112, ...
Single Control: Busking 19Ch	19	26	1, 20, 39, 58, ...
Single Control: Basic3 37Ch	37	13	1, 38, 75, 112, ...
Dual Control Mode Movement: Advanced 45ch	45	11	1, 46, 91, 136, ...
Dual Control Mode Movement: Standard 34ch	34	15	1, 35, 69, 103, ...
Dual Control Mode Movement: Basic 11ch	11	46	1, 12, 23, 34, ...
Dual Control Mode Pixels Advanced 224ch	224	2	1, 225
Dual Control Mode Pixels: Standard 112ch	112	4	1, 113, 225, 337
Dual Control Mode Pixels: Basic 93ch	93	5	1, 94, 187, 280, ...



Read the manual before use



Do not stare into the light

3 Safety instructions



Read the manual before use



Do not stare into the light

⚠ WARNING

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

⚠ CAUTION

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

⚠ CAUTION

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

⚠ CAUTION

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

⚠ WARNING

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

4 Product description

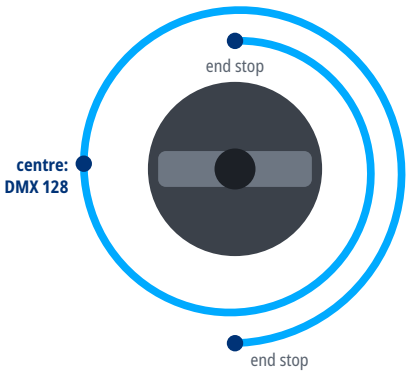
Description in the GDTF file

“Maverick Storm 2 BeamWash brings an arsenal of FX with arena scale reach. Its advanced alloy design weighs in under 50 pounds, delivering IP65 durability that loads in light, ruggedly housing an optical system that zooms in tight, blasting aerial beams that narrow to under 4 degrees. Go wild with individual pixel control made easy with a massive library of onboard effect macros. Get serious with dual mode control that enlists multiple protocols to separately command mappable eye candy and precision maneuvers. This Maverick packs a mean streak with a fiercely dynamic RGB outer ring that slips undercover instantly behind its stealth filter. Lighter and brighter, with nearly 10,000 lumens of output, the Maverick Storm 2 BeamWash arrives calibrated to match its fellow Mavericks in the rig.”

Range of movement

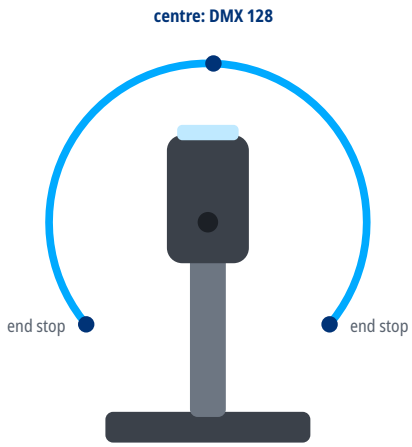
Pan 540°

top view



Tilt 260°

side view



5 Installation

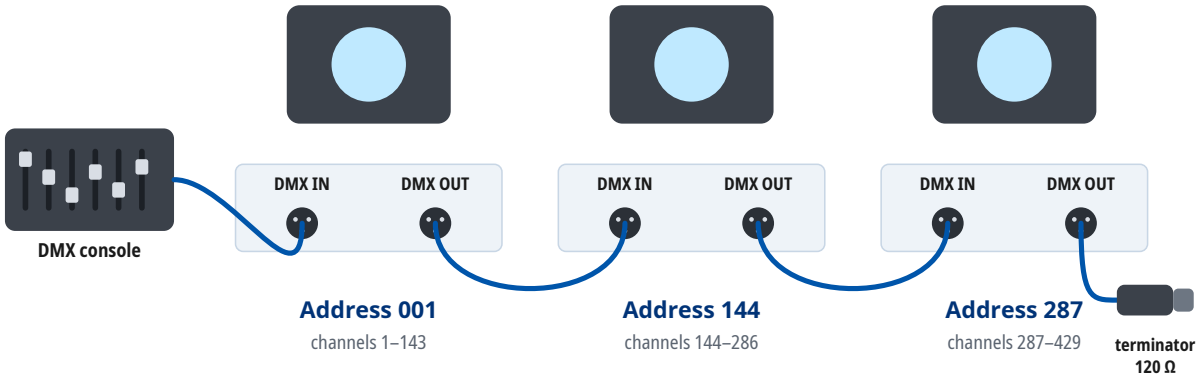
⚠ **WARNING**

- 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: 23.8 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 Single Control: Standard 143ch: every unit occupies 143 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 “Single Control: Tour 325ch”: 325.
- 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.

8 Functions at a glance

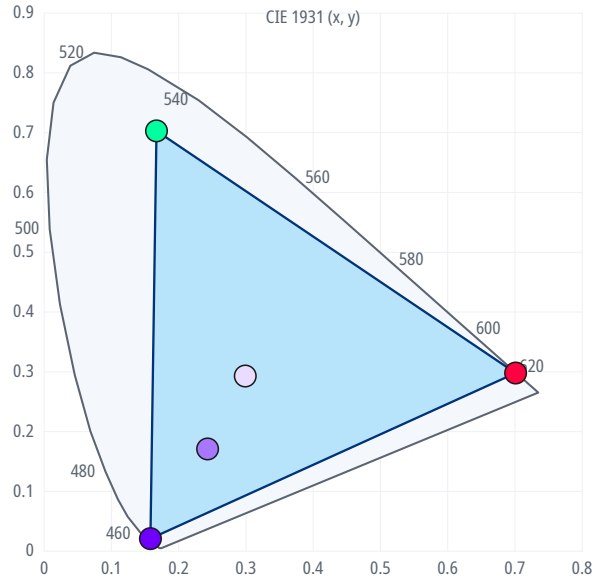
Functions in each DMX mode

	Single Control: Basic 31ch 31 channels	Single Control: Standard 143ch 143 channels	Single Control: Advanced 263ch 263 channels	Single Control: Tour 325ch 325 channels	Single Control: Basic2 37ch 37 channels	Single Control: Busking 19Ch 19 channels	Single Control: Basic3 37Ch 37 channels	Dual Control Mode Movement: Advanced 45ch 45 channels
Pan / Tilt	**1, 3**	**1, 3**	**1, 3**	**1, 3**	**1, 3**	**1, 2**	**1, 3**	**1, 3**
Pan / Tilt resolution	16 bit	16 bit	16 bit	16 bit	16 bit	8 bit	16 bit	16 bit
Dimmer	**22, 23**	**22, 23**	**24, 26**	33 channels (24–316)	**22, 24**	**4, 13**	**16, 18**	**24, 26**
Dimmer resolution	8 bit	8 bit	16 bit	16 bit	16 bit	8 bit	16 bit	16 bit
Shutter / strobe	**24, 25**	**24, 25**	**28, 29**	**28, 29**	**26, 27**	**5, 14**	**20, 21**	**28, 29**
Color mixing	**28–31**	**28–143**	116× (32–262)	116 channels (32–324)	**4× (30–36)**	**6–9**	**7× (24–36)**	**7× (32–44)**
Color temperature	**6–9, 18, 20**	**6–9, 18, 20**	**6–9, 18, 21**	**6–9, 18, 21**	**6–9, 18, 20**	**10, 15**	**6–8, 13**	**6–9, 18, 21**
Zoom	**26**	**26**	**30**	**30**	**28**	**18**	**22**	**30**
Effects / macros	**8–18, 20**	**8–18, 20**	**8–18, 21**	**8–18, 21**	**8–18, 20**	**10–12, 15–17**	**7–13**	**8–18, 21**
Pixel control		**13 + 18 cells**	**13 + 18 cells**	**13 + 18 cells**				

Color wheel

1. White 2700K - CTC — **DMX 1–2**
2. White 3200K - CTC — **DMX 3–4**
3. White 4200K - CTC — **DMX 5–8**
4. White 5600K - CTC — **DMX 9–10**
5. White 8000K - CTC — **DMX 11–12**
6. 8000K — **DMX 13–15**
7. Blue — **DMX 15**
8. +Green — **DMX 16–51**
9. Cyan — **DMX 52**
10. -Blue — **DMX 53–88**
11. Green — **DMX 89**
12. +Red — **DMX 90–125**
13. Yellow — **DMX 126**
14. -Green — **DMX 127–162**
15. Red — **DMX 163**
16. +Blue — **DMX 164–200**
17. Magenta — **DMX 201**
18. -Red — **DMX 202–238**
19. Open White

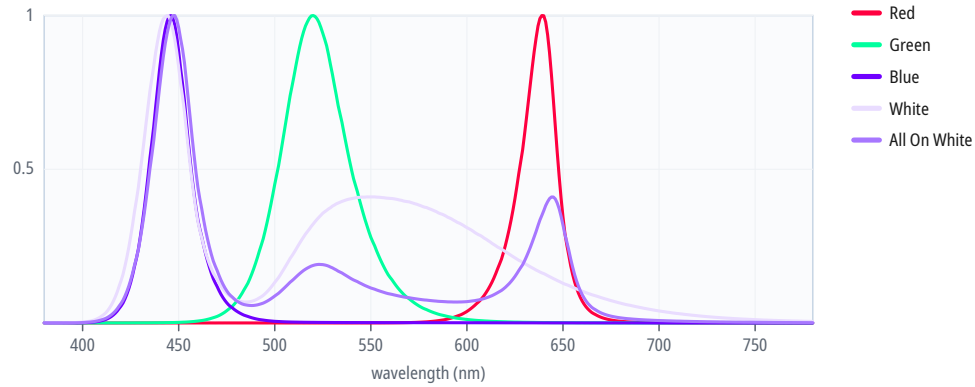
LED colors and the colors they mix



LED	x	y	nm
Red	0.701	0.298	626
Green	0.167	0.703	526
Blue	0.158	0.021	451
White	0.299	0.293	
All On White	0.243	0.171	

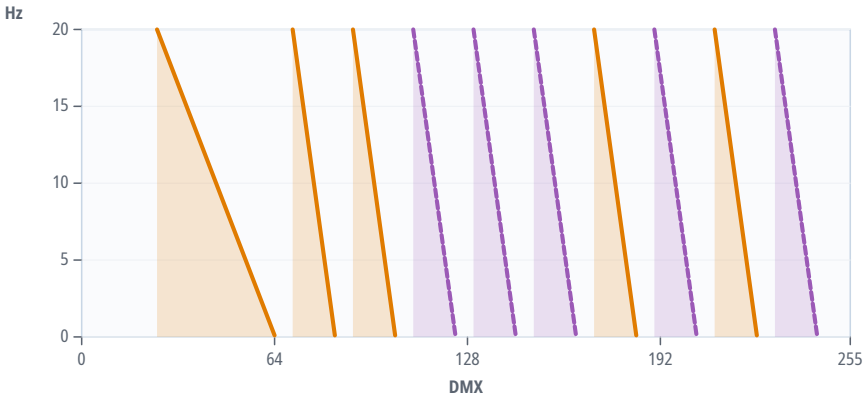
The shaded area holds the colors the LEDs can mix; the dots are the LED colors the GDTF file states.

Spectra of the light sources



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

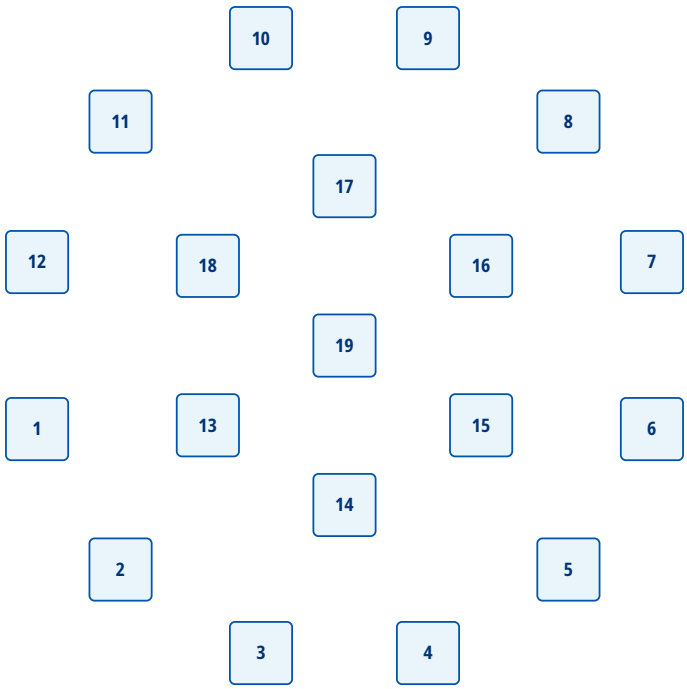
Strobe rate



CH 24 · Single Control: Standard 143ch

- 25–64: 20–0.1 Hz STROBE
- 70–84: 20–0.1 Hz STROBE 100-0%
- 90–104: 20–0.1 Hz STROBE 0-100%
- 110–124: 20–0.1 Hz RANDOM STROBE
- 130–144: 20–0.1 Hz RANDOM STROBE 100-0%
- 150–164: 20–0.1 Hz RANDOM STROBE 0-100%
- 170–184: 20–0.1 Hz PULSE STROBE
- 190–204: 20–0.1 Hz RANDOM PULSE STROBE

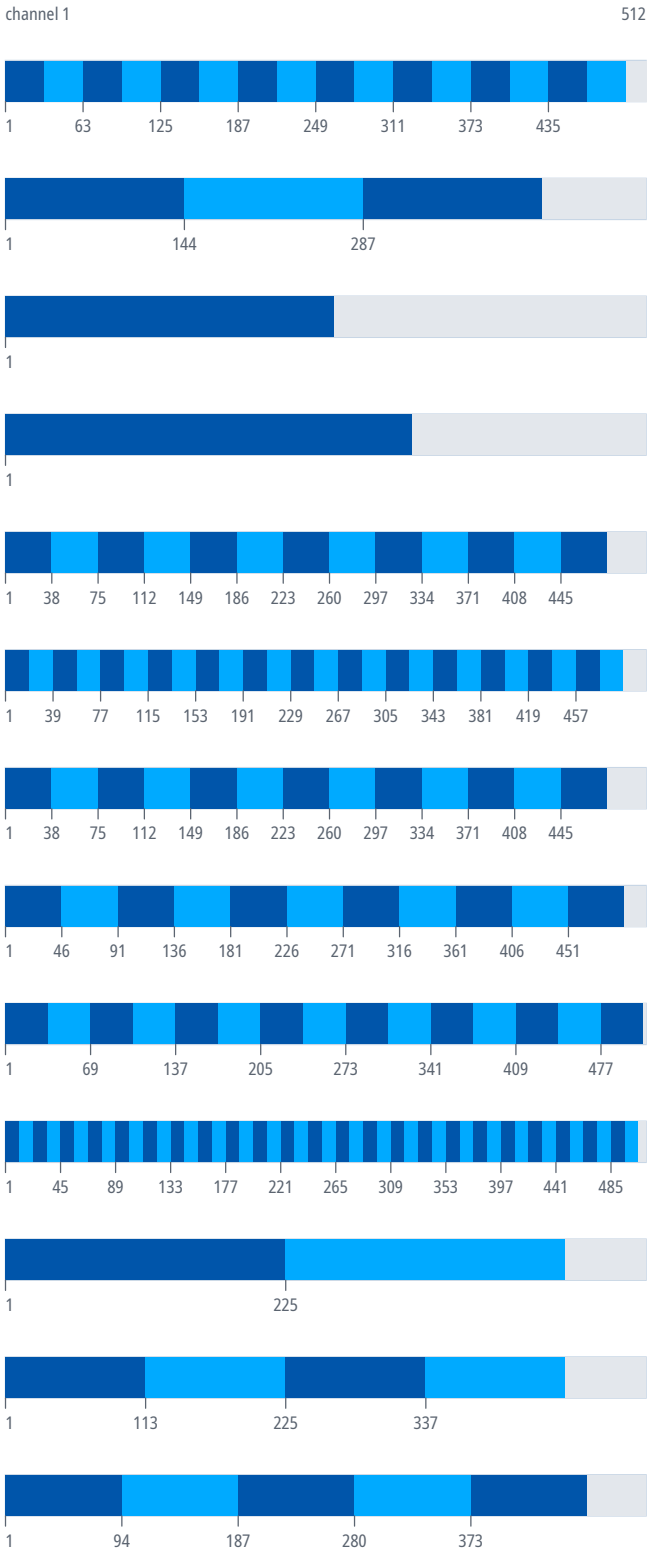
Cells (pixels)



19 cells where the GDTF file places them (seen from above), numbered in the file's order; the mode “Single Control: Standard 143ch” drives them together.

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Single Control: Tour 325ch”

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.

RDM personalities

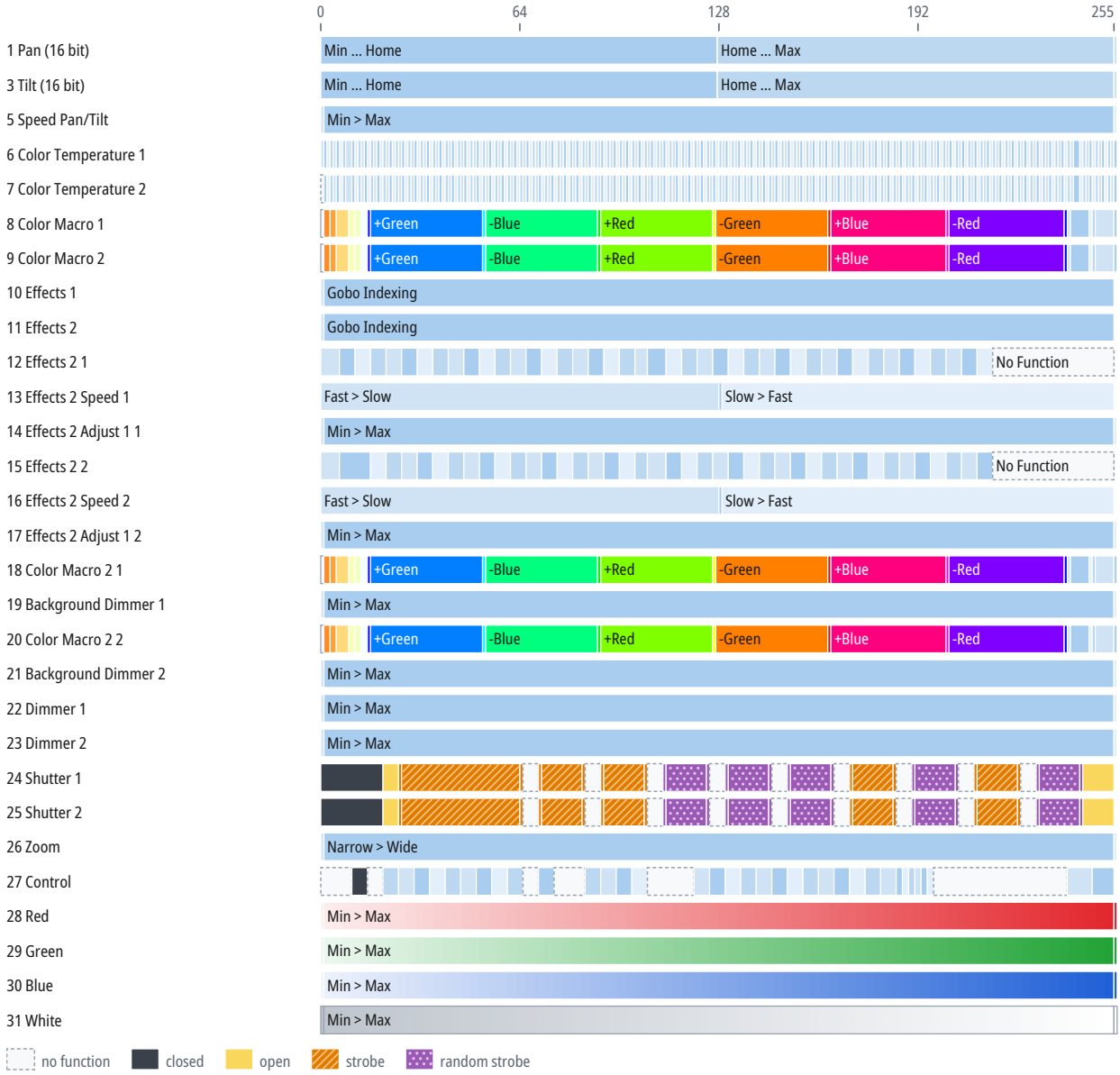
Mode	Channels	RDM personality
Single Control: Basic 31ch	31	1
Single Control: Standard 143ch	143	2
Single Control: Advanced 263ch	263	3
Single Control: Tour 325ch	325	4
Single Control: Basic2 37ch	37	5
Single Control: Busking 19Ch	19	6
Single Control: Basic3 37Ch	37	–
Dual Control Mode Movement: Advanced 45ch	45	6
Dual Control Mode Movement: Standard 34ch	34	7
Dual Control Mode Movement: Basic 11ch	11	8
Dual Control Mode Pixels Advanced 224ch	224	9
Dual Control Mode Pixels: Standard 112ch	112	10
Dual Control Mode Pixels: Basic 93ch	93	11

Mode Single Control: Basic 31ch

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 24 Shutter 1 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”; CH 25 Shutter 2 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”. The GDTF file gives these values for a console's Highlight function: CH 6 Color Temperature 1 0, CH 7 Color Temperature 2 0, CH 8 Color Macro 1 0, CH 9 Color Macro 2 0, CH 18 Color Macro 2 1 0, CH 20 Color Macro 2 2 0, CH 22 Dimmer 1 255, CH 23 Dimmer 2 255, CH 28 Red 255, CH 29 Green 255, CH 30 Blue 255, CH 31 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Min ... Home
		127	Home
		128–255	Home ... Max

CH	Function	DMX	Description
1	Pan (continued)	255	Max
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–127	Min ... Home
		127	Home
		128–255	Home ... Max
		255	Max
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		P/T SPEED
		0	Min
		1–254	Min > Max
		255	Max
6	Color Temperature 1	0	CTC OPEN: Open
		1	19000K - CTC
		2	18900K - CTC
		3	18900K - CTC ... 18800K - CTC
		4	18800K - CTC
		5	18800K - CTC ... 18700K - CTC
		6	18700K - CTC
		7	18600K - CTC
		8–9	18500K - CTC
		10	18400K - CTC
		11	18400K - CTC ... 18300K - CTC
		12	18300K - CTC
		13	18200K - CTC
		14	18200K - CTC ... 18100K - CTC
		15	18100K - CTC
		16	18000K - CTC
		17	18000K - CTC ... 17900K - CTC
		18	17900K - CTC
		19	17800K - CTC
		20	17800K - CTC ... 17700K - CTC
		21	17700K - CTC
		22	17600K - CTC
		23	17600K - CTC ... 17500K - CTC
		24	17500K - CTC
		25	17500K - CTC ... 17400K - CTC
		26	17400K - CTC
		27	17300K - CTC
		28	17300K - CTC ... 17200K - CTC
		29	17200K - CTC
		30	17100K - CTC
		31	17100K - CTC ... 17000K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	32	17000K - CTC
		33	16900K - CTC
		34	16900K - CTC ... 16800K - CTC
		35	16800K - CTC
		36	16800K - CTC ... 16700K - CTC
		37	16700K - CTC
		38	16600K - CTC
		39	16600K - CTC ... 16500K - CTC
		40	16500K - CTC
		41	16400K - CTC
		42	16400K - CTC ... 16300K - CTC
		43	16300K - CTC
		44	16200K - CTC
		45	16200K - CTC ... 16100K - CTC
		46	16100K - CTC
		47	16000K - CTC
		48	16000K - CTC ... 15900K - CTC
		49	15900K - CTC
		50	15900K - CTC ... 15800K - CTC
		51	15800K - CTC
		52	15700K - CTC
		53	15700K - CTC ... 157600K - CTC
		54	157600K - CTC
		55	15500K - CTC
		56	15500K - CTC ... 15400K - CTC
		57	15400K - CTC
		58	15300K - CTC
		59	15300K - CTC ... 15200K - CTC
		60	15200K - CTC
		61	15200K - CTC ... 15100K - CTC
		62	15100K - CTC
		63	15000K - CTC
		64	15000K - CTC ... 14900K - CTC
		65	14900K - CTC
		66	14800K - CTC
		67	14800K - CTC ... 14700K - CTC
		68	14700K - CTC
		69	14600K - CTC
		70	14600K - CTC ... 14500K - CTC
		71	14500K - CTC
		72	14400K - CTC
		73	14400K - CTC ... 14300K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	74	14300K - CTC
		75	14300K - CTC ... 14200K - CTC
		76	14200K - CTC
		77	14100K - CTC
		78	14100K - CTC ... 14000K - CTC
		79	14000K - CTC
		80	13900K - CTC
		81	13900K - CTC ... 13800K - CTC
		82	13800K - CTC
		83	13700K - CTC
		84	13700K - CTC ... 13600K - CTC
		85	13600K - CTC
		86	13500K - CTC
		87	13500K - CTC ... 13400K - CTC
		88	13400K - CTC
		89	13400K - CTC ... 13300K - CTC
		90	13300K - CTC
		91	13200K - CTC
		92	13200K - CTC ... 13100K - CTC
		93	13100K - CTC
		94	13000K - CTC
		95	13000K - CTC ... 12900K - CTC
		96	12900K - CTC
		97	12800K - CTC
		98	12800K - CTC ... 12700K - CTC
		99	12700K - CTC
		100	12700K - CTC ... 12600K - CTC
		101	12600K - CTC
		102	12500K - CTC
		103	12500K - CTC ... 12400K - CTC
		104	12400K - CTC
		105	12300K - CTC
		106	12300K - CTC ... 12200K - CTC
		107	12200K - CTC
		108	12100K - CTC
		109	12100K - CTC ... 12000K - CTC
		110	12000K - CTC
		111	12000K - CTC ... 11900K - CTC
		112	11900K - CTC
		113	11800K - CTC
		114	11800K - CTC ... 11700K - CTC
		115	11700K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	116	11600K - CTC
		117	11600K - CTC ... 11500K - CTC
		118	11500K - CTC
		119	11400K - CTC
		120	11400K - CTC ... 11300K - CTC
		121	11300K - CTC
		122	11200K - CTC
		123	11200K - CTC ... 11100K - CTC
		124	11100K - CTC
		125	11000K - CTC
		126	11000K - CTC ... 10900K - CTC
		127	10900K - CTC
		128	10900K - CTC ... 10800K - CTC
		129	10800K - CTC
		130	10700K - CTC
		131	10700K - CTC ... 10600K - CTC
		132	10600K - CTC
		133	10500K - CTC
		134	10500K - CTC ... 10400K - CTC
		135	10400K - CTC
		136	10300K - CTC
		137	10300K - CTC ... 10200K - CTC
		138	10200K - CTC
		139	10200K - CTC ... 10100K - CTC
		140	10100K - CTC
		141	10000K - CTC
		142	10000K - CTC ... 9900K - CTC
		143	9900K - CTC
		144	9800K - CTC
		145	9800K - CTC ... 9700K - CTC
		146	9700K - CTC
		147	9600K - CTC
		148	9600K - CTC ... 9500K - CTC
		149	9500K - CTC
		150	9400K - CTC
		151	9400K - CTC ... 9300K - CTC
		152	9300K - CTC
		153	9300K - CTC ... 9200K - CTC
		154	9200K - CTC
		155	9100K - CTC
		156	9100K - CTC ... 9000K - CTC
		157	9000K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	158	8900K - CTC
		159	8900K - CTC ... 8800K - CTC
		160	8800K - CTC
		161	8700K - CTC
		162	8700K - CTC ... 8600K - CTC
		163	8600K - CTC
		164	8500K - CTC
		165	8500K - CTC ... 8400K - CTC
		166	8400K - CTC
		167	8300K - CTC
		168	8300K - CTC ... 8200K - CTC
		169	8200K - CTC
		170	8200K - CTC ... 8100K - CTC
		171	8100K - CTC
		172	8000K - CTC
		173	8000K - CTC ... 7900K - CTC
		174	7900K - CTC
		175	7800K - CTC
		176	7800K - CTC ... 7700K - CTC
		177	7700K - CTC
		178	7600K - CTC
		179	7600K - CTC ... 7500K - CTC
		180	7500K - CTC
		181	7500K - CTC ... 7400K - CTC
		182	7400K - CTC
		183	7300K - CTC
		184	7300K - CTC ... 7200K - CTC
		185	7200K - CTC
		186	7100K - CTC
		187	7100K - CTC ... 7000K - CTC
		188	7000K - CTC
		189	6900K - CTC
		190	6900K - CTC ... 6800K - CTC
		191	6800K - CTC
		192	6800K - CTC ... 6700K - CTC
		193	6700K - CTC
		194	6600K - CTC
		195	6600K - CTC ... 6500K - CTC
		196	6500K - CTC
		197	6400K - CTC
		198	6400K - CTC ... 6300K - CTC
		199	6300K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	200	6200K - CTC
		201	6200K - CTC ... 6100K - CTC
		202	6100K - CTC
		203	6000K - CTC
		204	6000K - CTC ... 5900K - CTC
		205	5900K - CTC
		206	5900K - CTC ... 5800K - CTC
		207	5800K - CTC
		208	5700K - CTC
		209	5700K - CTC ... 5600K - CTC
		210	5600K - CTC
		211	5500K - CTC
		212	5500K - CTC ... 5400K - CTC
		213	5400K - CTC
		214	5300K - CTC
		215	5300K - CTC ... 5200K - CTC
		216	5200K - CTC
		217	5100K - CTC
		218	5100K - CTC ... 5000K - CTC
		219	5000K - CTC
		220	5000K - CTC ... 4900K - CTC
		221	4900K - CTC
		222	4800K - CTC
		223	4800K - CTC ... 4700K - CTC
		224	4700K - CTC
		225	4600K - CTC
		226	4600K - CTC ... 4500K - CTC
		227	4500K - CTC
		228	4400K - CTC
		229	4400K - CTC ... 4300K - CTC
		230	4300K - CTC
		231	4300K - CTC ... 4200K - CTC
		232	4200K - CTC
		233	4100K - CTC
		234	4100K - CTC ... 4000K - CTC
		235	4000K - CTC
		236	3900K - CTC
		237	3900K - CTC ... 3800K - CTC
		238	3800K - CTC
		239	3700K - CTC
		240	3700K - CTC ... 3600K - CTC
		241	3600K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	242–243	3500K - CTC
		244	3400K - CTC
		245	3400K - CTC ... 3300K - CTC
		246	3300K - CTC
		247	3200K - CTC
		248	3200K - CTC ... 3100K - CTC
		249	3100K - CTC
		250	3000K - CTC
		251	3000K - CTC ... 2900K - CTC
		252	2900K - CTC
		253	2800K - CTC
		254	2800K - CTC ... 2700K - CTC
		255	2700K - CTC
7	Color Temperature 2	0	No Function
		1	19000K - CTC
		2	18900K - CTC
		3	18900K - CTC ... 18800K - CTC
		4	18800K - CTC
		5	18800K - CTC ... 18700K - CTC
		6	18700K - CTC
		7	18600K - CTC
		8–9	18500K - CTC
		10	18400K - CTC
		11	18400K - CTC ... 18300K - CTC
		12	18300K - CTC
		13	18200K - CTC
		14	18200K - CTC ... 18100K - CTC
		15	18100K - CTC
		16	18000K - CTC
		17	18000K - CTC ... 17900K - CTC
		18	17900K - CTC
		19	17800K - CTC
		20	17800K - CTC ... 17700K - CTC
		21	17700K - CTC
		22	17600K - CTC
		23	17600K - CTC ... 17500K - CTC
		24	17500K - CTC
		25	17500K - CTC ... 17400K - CTC
		26	17400K - CTC
		27	17300K - CTC
		28	17300K - CTC ... 17200K - CTC
		29	17200K - CTC

CH	Function	DMX	Description
7	Color Temperature 2 (continued)	30	17100K - CTC
		31	17100K - CTC ... 17000K - CTC
		32	17000K - CTC
		33	16900K - CTC
		34	16900K - CTC ... 16800K - CTC
		35	16800K - CTC
		36	16800K - CTC ... 16700K - CTC
		37	16700K - CTC
		38	16600K - CTC
		39	16600K - CTC ... 16500K - CTC
		40	16500K - CTC
		41	16400K - CTC
		42	16400K - CTC ... 16300K - CTC
		43	16300K - CTC
		44	16200K - CTC
		45	16200K - CTC ... 16100K - CTC
		46	16100K - CTC
		47	16000K - CTC
		48	16000K - CTC ... 15900K - CTC
		49	15900K - CTC
		50	15900K - CTC ... 15800K - CTC
		51	15800K - CTC
		52	15700K - CTC
		53	15700K - CTC ... 157600K - CTC
		54	157600K - CTC
		55	15500K - CTC
		56	15500K - CTC ... 15400K - CTC
		57	15400K - CTC
		58	15300K - CTC
		59	15300K - CTC ... 15200K - CTC
		60	15200K - CTC
		61	15200K - CTC ... 15100K - CTC
		62	15100K - CTC
		63	15000K - CTC
		64	15000K - CTC ... 14900K - CTC
		65	14900K - CTC
		66	14800K - CTC
		67	14800K - CTC ... 14700K - CTC
		68	14700K - CTC
		69	14600K - CTC
		70	14600K - CTC ... 14500K - CTC
		71	14500K - CTC

CH	Function	DMX	Description
7	Color Temperature 2 (continued)	72	14400K - CTC
		73	14400K - CTC ... 14300K - CTC
		74	14300K - CTC
		75	14300K - CTC ... 14200K - CTC
		76	14200K - CTC
		77	14100K - CTC
		78	14100K - CTC ... 14000K - CTC
		79	14000K - CTC
		80	13900K - CTC
		81	13900K - CTC ... 13800K - CTC
		82	13800K - CTC
		83	13700K - CTC
		84	13700K - CTC ... 13600K - CTC
		85	13600K - CTC
		86	13500K - CTC
		87	13500K - CTC ... 13400K - CTC
		88	13400K - CTC
		89	13400K - CTC ... 13300K - CTC
		90	13300K - CTC
		91	13200K - CTC
		92	13200K - CTC ... 13100K - CTC
		93	13100K - CTC
		94	13000K - CTC
		95	13000K - CTC ... 12900K - CTC
		96	12900K - CTC
		97	12800K - CTC
		98	12800K - CTC ... 12700K - CTC
		99	12700K - CTC
		100	12700K - CTC ... 12600K - CTC
		101	12600K - CTC
		102	12500K - CTC
		103	12500K - CTC ... 12400K - CTC
		104	12400K - CTC
		105	12300K - CTC
		106	12300K - CTC ... 12200K - CTC
		107	12200K - CTC
		108	12100K - CTC
		109	12100K - CTC ... 12000K - CTC
		110	12000K - CTC
		111	12000K - CTC ... 11900K - CTC
		112	11900K - CTC
		113	11800K - CTC

CH	Function	DMX	Description
7	Color Temperature 2 (continued)	114	11800K - CTC ... 11700K - CTC
		115	11700K - CTC
		116	11600K - CTC
		117	11600K - CTC ... 11500K - CTC
		118	11500K - CTC
		119	11400K - CTC
		120	11400K - CTC ... 11300K - CTC
		121	11300K - CTC
		122	11200K - CTC
		123	11200K - CTC ... 11100K - CTC
		124	11100K - CTC
		125	11000K - CTC
		126	11000K - CTC ... 10900K - CTC
		127	10900K - CTC
		128	10900K - CTC ... 10800K - CTC
		129	10800K - CTC
		130	10700K - CTC
		131	10700K - CTC ... 10600K - CTC
		132	10600K - CTC
		133	10500K - CTC
		134	10500K - CTC ... 10400K - CTC
		135	10400K - CTC
		136	10300K - CTC
		137	10300K - CTC ... 10200K - CTC
		138	10200K - CTC
		139	10200K - CTC ... 10100K - CTC
		140	10100K - CTC
		141	10000K - CTC
		142	10000K - CTC ... 9900K - CTC
		143	9900K - CTC
		144	9800K - CTC
		145	9800K - CTC ... 9700K - CTC
		146	9700K - CTC
		147	9600K - CTC
		148	9600K - CTC ... 9500K - CTC
		149	9500K - CTC
		150	9400K - CTC
		151	9400K - CTC ... 9300K - CTC
		152	9300K - CTC
		153	9300K - CTC ... 9200K - CTC
		154	9200K - CTC
		155	9100K - CTC

CH	Function	DMX	Description
7	Color Temperature 2 (continued)	156	9100K - CTC ... 9000K - CTC
		157	9000K - CTC
		158	8900K - CTC
		159	8900K - CTC ... 8800K - CTC
		160	8800K - CTC
		161	8700K - CTC
		162	8700K - CTC ... 8600K - CTC
		163	8600K - CTC
		164	8500K - CTC
		165	8500K - CTC ... 8400K - CTC
		166	8400K - CTC
		167	8300K - CTC
		168	8300K - CTC ... 8200K - CTC
		169	8200K - CTC
		170	8200K - CTC ... 8100K - CTC
		171	8100K - CTC
		172	8000K - CTC
		173	8000K - CTC ... 7900K - CTC
		174	7900K - CTC
		175	7800K - CTC
		176	7800K - CTC ... 7700K - CTC
		177	7700K - CTC
		178	7600K - CTC
		179	7600K - CTC ... 7500K - CTC
		180	7500K - CTC
		181	7500K - CTC ... 7400K - CTC
		182	7400K - CTC
		183	7300K - CTC
		184	7300K - CTC ... 7200K - CTC
		185	7200K - CTC
		186	7100K - CTC
		187	7100K - CTC ... 7000K - CTC
		188	7000K - CTC
		189	6900K - CTC
		190	6900K - CTC ... 6800K - CTC
		191	6800K - CTC
		192	6800K - CTC ... 6700K - CTC
		193	6700K - CTC
		194	6600K - CTC
		195	6600K - CTC ... 6500K - CTC
		196	6500K - CTC
		197	6400K - CTC

CH	Function	DMX	Description
7	Color Temperature 2 (continued)	198	6400K - CTC ... 6300K - CTC
		199	6300K - CTC
		200	6200K - CTC
		201	6200K - CTC ... 6100K - CTC
		202	6100K - CTC
		203	6000K - CTC
		204	6000K - CTC ... 5900K - CTC
		205	5900K - CTC
		206	5900K - CTC ... 5800K - CTC
		207	5800K - CTC
		208	5700K - CTC
		209	5700K - CTC ... 5600K - CTC
		210	5600K - CTC
		211	5500K - CTC
		212	5500K - CTC ... 5400K - CTC
		213	5400K - CTC
		214	5300K - CTC
		215	5300K - CTC ... 5200K - CTC
		216	5200K - CTC
		217	5100K - CTC
		218	5100K - CTC ... 5000K - CTC
		219	5000K - CTC
		220	5000K - CTC ... 4900K - CTC
		221	4900K - CTC
		222	4800K - CTC
		223	4800K - CTC ... 4700K - CTC
		224	4700K - CTC
		225	4600K - CTC
		226	4600K - CTC ... 4500K - CTC
		227	4500K - CTC
		228	4400K - CTC
		229	4400K - CTC ... 4300K - CTC
		230	4300K - CTC
		231	4300K - CTC ... 4200K - CTC
		232	4200K - CTC
		233	4100K - CTC
		234	4100K - CTC ... 4000K - CTC
		235	4000K - CTC
		236	3900K - CTC
		237	3900K - CTC ... 3800K - CTC
		238	3800K - CTC
		239	3700K - CTC

CH	Function	DMX	Description
7	Color Temperature 2 (continued)	240	3700K - CTC ... 3600K - CTC
		241	3600K - CTC
		242–243	3500K - CTC
		244	3400K - CTC
		245	3400K - CTC ... 3300K - CTC
		246	3300K - CTC
		247	3200K - CTC
		248	3200K - CTC ... 3100K - CTC
		249	3100K - CTC
		250	3000K - CTC
		251	3000K - CTC ... 2900K - CTC
		252	2900K - CTC
		253	2800K - CTC
		254	2800K - CTC ... 2700K - CTC
		255	2700K - CTC
8	Color Macro 1	0	COLOR MACRO OPEN: Open
		1–2	White 2700K - CTC
		3–4	White 3200K - CTC
		5–8	White 4200K - CTC
		9–10	White 5600K - CTC
		11–14	White 8000K - CTC (6500–8000 K)
		15	Blue
		16–51	+Green
		52	Cyan
		53–88	-Blue
		89	Green
		90–125	+Red
		126	Yellow
		127–162	-Green
		163	Red
		164–200	+Blue
		201	Magenta
		202–238	-Red
		239	Blue
		240	COLOR EFFECT FADE: Fast
		241–246	COLOR EFFECT FADE: Fast > Slow
		247	COLOR EFFECT FADE: Slow
		248	COLOR EFFECT SNAP: Fast
		249–254	COLOR EFFECT SNAP: Fast > Slow
		255	COLOR EFFECT SNAP: Slow
9	Color Macro 2	0	COLOR MACRO OPEN: Open
		1–2	White 2700K - CTC

CH	Function	DMX	Description
9	Color Macro 2 (continued)	3–4	White 3200K - CTC
		5–8	White 4200K - CTC
		9–10	White 5600K - CTC
		11–12	White 6500K - CTC
		13–14	White 8000K - CTC
		15	Blue
		16–51	+Green
		52	Cyan
		53–88	-Blue
		89	Green
		90–125	+Red
		126	Yellow
		127–162	-Green
		163	Red
		164–200	+Blue
		201	Magenta
		202–238	-Red
		239	Blue
		240	COLOR EFFECT FADE: Fast
		241–246	COLOR EFFECT FADE: Fast > Slow
		247	COLOR EFFECT FADE: Slow
		248	COLOR EFFECT SNAP: Fast
		249–254	COLOR EFFECT SNAP: Fast > Slow
		255	COLOR EFFECT SNAP: Slow
10	Effects 1	0	PATTERN OPEN: Open
		1–255	Gobo Indexing
11	Effects 2	0	PATTERN OPEN: Open
		1–255	Gobo Indexing
12	Effects 2 1	0–5	LED BUILT-IN OPEN: Open
		6–10	LED Built-In 1 - Macro
		11–15	LED Built-In 2 - Macro
		16–20	LED Built-In 3 - Macro
		21–25	LED Built-In 4 - Macro
		26–30	LED Built-In 5 - Macro
		31–35	LED Built-In 6 - Macro
		36–40	LED Built-In 7 - Macro
		41–45	LED Built-In 8 - Macro
		46–50	LED Built-In 9 - Macro
		51–55	LED Built-In 10 - Macro
		56–60	LED Built-In 11 - Macro
		61–65	LED Built-In 12 - Macro
		66–70	LED Built-In 13 - Macro

CH	Function	DMX	Description
12	Effects 2 1 (continued)	71–75	LED Built-In 14 - Macro
		76–80	LED Built-In 15 - Macro
		81–85	LED Built-In 16 - Macro
		86–90	LED Built-In 17 - Macro
		91–95	LED Built-In 18 - Macro
		96–100	LED Built-In 19 - Macro
		101–104	LED Built-In 20 - Macro
		105–110	LED Built-In 21 - Macro
		111–115	LED Built-In 22 - Macro
		116–120	LED Built-In 23 - Macro
		121–125	LED Built-In 24 - Macro
		126–130	LED Built-In 25 - Macro
		131–135	LED Built-In 26 - Macro
		136–140	LED Built-In 27 - Macro
		141–145	LED Built-In 28 - Macro
		146–150	LED Built-In 29 - Macro
		151–155	LED Built-In 30 - Macro
		156–160	LED Built-In 31 - Macro
		161–165	LED Built-In 32 - Macro
		166–170	LED Built-In 33 - Macro
		171–175	LED Built-In 34 - Macro
		176–180	LED Built-In 35 - Macro
		181–185	LED Built-In 36 - Macro
		186–190	LED Built-In 37 - Macro
		191–195	LED Built-In 38 - Macro
		196–200	LED Built-In 39 - Macro
		201–205	LED Built-In 40 - Macro
		206–210	LED Built-In 41 - Macro
		211–215	LED Built-In 42 - Macro
		216–255	No Function
13	Effects 2 Speed 1		LED BUILT-IN SPEED
		0–127	Fast > Slow (10–0.1 Hz)
		128	Stop
		129–255	Slow > Fast (0.1–10 Hz)
14	Effects 2 Adjust 1 1		LED BUILT-IN DELAY
		0	Min
		1–254	Min > Max
		255	Max
15	Effects 2 2	0–5	LED BUILT-IN OPEN: Open
		6–15	LED BUILT-IN PATTERN
		16–20	LED Built-In 1 - Macro
		21–25	LED Built-In 2 - Macro

CH	Function	DMX	Description
15	Effects 2 2 (continued)	26–30	LED Built-In 3 - Macro
		31–35	LED Built-In 4 - Macro
		36–40	LED Built-In 5 - Macro
		41–45	LED Built-In 6 - Macro
		46–50	LED Built-In 7 - Macro
		51–55	LED Built-In 8 - Macro
		56–60	LED Built-In 9 - Macro
		61–65	LED Built-In 10 - Macro
		66–70	LED Built-In 11 - Macro
		71–75	LED Built-In 12 - Macro
		76–80	LED Built-In 13 - Macro
		81–85	LED Built-In 14 - Macro
		86–90	LED Built-In 15 - Macro
		91–95	LED Built-In 16 - Macro
		96–100	LED Built-In 17 - Macro
		101–104	LED Built-In 18 - Macro
		105–110	LED Built-In 19 - Macro
		111–115	LED Built-In 20 - Macro
		116–120	LED Built-In 23 - Macro
		121–125	LED Built-In 24 - Macro
		126–130	LED Built-In 25 - Macro
		131–135	LED Built-In 26 - Macro
		136–140	LED Built-In 27 - Macro
		141–145	LED Built-In 28 - Macro
		146–150	LED Built-In 29 - Macro
		151–155	LED Built-In 30 - Macro
		156–160	LED Built-In 31 - Macro
		161–165	LED Built-In 32 - Macro
		166–170	LED Built-In 33 - Macro
		171–175	LED Built-In 34 - Macro
		176–180	LED Built-In 35 - Macro
		181–185	LED Built-In 36 - Macro
		186–190	LED Built-In 37 - Macro
		191–195	LED Built-In 38 - Macro
		196–200	LED Built-In 39 - Macro
		201–205	LED Built-In 40 - Macro
		206–210	LED Built-In 41 - Macro
		211–215	LED Built-In 42 - Macro
		216–255	No Function
16	Effects 2 Speed 2		LED BUILT-IN SPEED
		0–127	Fast > Slow (10–0.1 Hz)
		128	Stop

CH	Function	DMX	Description
16	Effects 2 Speed 2 (continued)	129–255	Slow > Fast (0.1–10 Hz)
17	Effects 2 Adjust 1 2		LED BUILT-IN DELAY
		0	Min
		1–254	Min > Max
		255	Max
18	Color Macro 2 1	0	BACKGROUND COLOR MACRO: Open
		1–2	White 2700K - CTC
		3–4	White 3200K - CTC
		5–8	White 4200K - CTC
		9–10	White 5600K - CTC
		11–12	White 6500K - CTC
		13–14	White 8000K - CTC
		15	Blue
		16–51	+Green
		52	Cyan
		53–88	-Blue
		89	Green
		90–125	+Red
		126	Yellow
		127–162	-Green
		163	Red
		164–200	+Blue
		201	Magenta
		202–238	-Red
		239	Blue
		240	BACKGROUND COLOR EFFECT FADE: Fast
		241–246	BACKGROUND COLOR EFFECT FADE: Fast > Slow
		247	BACKGROUND COLOR EFFECT FADE: Slow
		248	BACKGROUND COLOR EFFECT SNAP: Fast
		249–254	BACKGROUND COLOR EFFECT SNAP: Fast > Slow
		255	BACKGROUND COLOR EFFECT SNAP: Slow
19	Background Dimmer 1		BACKGROUND DIMMER
		0	Min
		1–254	Min > Max
		255	Max
20	Color Macro 2 2	0	BACKGROUND COLOR MACRO: Open
		1–2	White 2700K - CTC
		3–4	White 3200K - CTC
		5–8	White 4200K - CTC
		9–10	White 5600K - CTC
		11–12	White 6500K - CTC
		13–14	White 8000K - CTC

CH	Function	DMX	Description
20	Color Macro 2 2 (continued)	15	Blue
		16–51	+Green
		52	Cyan
		53–88	-Blue
		89	Green
		90–125	+Red
		126	Yellow
		127–162	-Green
		163	Red
		164–200	+Blue
		201	Magenta
		202–238	-Red
		239	Blue
		240	BACKGROUND COLOR EFFECT FADE: Fast
		241–246	BACKGROUND COLOR EFFECT FADE: Fast > Slow
		247	BACKGROUND COLOR EFFECT FADE: Slow
		248	BACKGROUND COLOR EFFECT SNAP: Fast
		249–254	BACKGROUND COLOR EFFECT SNAP: Fast > Slow
		255	BACKGROUND COLOR EFFECT SNAP: Slow
21	Background Dimmer 2		BACKGROUND DIMMER
		0	Min
		1–254	Min > Max
		255	Max
22	Dimmer 1	0	Min
		1–254	Min > Max
		255	Max
23	Dimmer 2	0	Min
		1–254	Min > Max
		255	Max
24	Shutter 1	0–19	Shutter Closed
		20–24	STROBE CLOSE/OPEN: Shutter Open
		25	STROBE: Fast
		26–63	STROBE: Fast > Slow
		64	STROBE: Slow
		65–69	STROBE OPEN: Shutter Open
		70	STROBE 100-0%: Fast
		71–83	STROBE 100-0%: Fast > Slow
		84	STROBE 100-0%: Slow
		85–89	STROBE OPEN: Shutter Open
		90	STROBE 0-100%: Fast
		91–103	STROBE 0-100%: Fast > Slow
		104	STROBE 0-100%: Slow

CH	Function	DMX	Description
24	Shutter 1 (continued)	105–109	STROBE OPEN: Shutter Open
		110	RANDOM STROBE: Fast
		111–123	RANDOM STROBE: Fast > Slow
		124	RANDOM STROBE: Slow
		125–129	STROBE OPEN: Shutter Open
		130	RANDOM STROBE 100-0%: Fast
		131–143	RANDOM STROBE 100-0%: Fast > Slow
		144	RANDOM STROBE 100-0%: Slow
		145–149	STROBE OPEN: Shutter Open
		150	RANDOM STROBE 0-100%: Fast
		151–163	RANDOM STROBE 0-100%: Fast > Slow
		164	RANDOM STROBE 0-100%: Slow
		165–169	STROBE OPEN: Shutter Open
		170	PULSE STROBE: Fast
		171–183	PULSE STROBE: Fast > Slow
		184	PULSE STROBE: Slow
		185–189	STROBE OPEN: Shutter Open
		190	RANDOM PULSE STROBE: Fast
		191–203	RANDOM PULSE STROBE: Fast > Slow
		204	RANDOM PULSE STROBE: Slow
		205–209	STROBE OPEN: Shutter Open
		210	STROBE 0-100-0%: Fast
		211–223	STROBE 0-100-0%: Fast > Slow
		224	STROBE 0-100-0%: Slow
		225–229	STROBE OPEN: Shutter Open
		230	RANDOM PULSE STROBE: Fast
		231–243	RANDOM PULSE STROBE: Fast > Slow
		244	RANDOM PULSE STROBE: Slow
		245–255	STROBE OPEN: Shutter Open
25	Shutter 2	0–19	Shutter Closed
		20–24	STROBE CLOSE/OPEN: Shutter Open
		25	STROBE: Fast
		26–63	STROBE: Fast > Slow
		64	STROBE: Slow
		65–69	STROBE OPEN: Shutter Open
		70	STROBE 100-0%: Fast
		71–83	STROBE 100-0%: Fast > Slow
		84	STROBE 100-0%: Slow
		85–89	STROBE OPEN: Shutter Open
		90	STROBE 0-100%: Fast
		91–103	STROBE 0-100%: Fast > Slow
		104	STROBE 0-100%: Slow

CH	Function	DMX	Description
25	Shutter 2 (continued)	105–109	STROBE OPEN: Shutter Open
		110	RANDOM STROBE: Fast
		111–123	RANDOM STROBE: Fast > Slow
		124	RANDOM STROBE: Slow
		125–129	STROBE OPEN: Shutter Open
		130	RANDOM STROBE 100-0%: Fast
		131–143	RANDOM STROBE 100-0%: Fast > Slow
		144	RANDOM STROBE 100-0%: Slow
		145–149	STROBE OPEN: Shutter Open
		150	RANDOM STROBE 0-100%: Fast
		151–163	RANDOM STROBE 0-100%: Fast > Slow
		164	RANDOM STROBE 0-100%: Slow
		165–169	STROBE OPEN: Shutter Open
		170	PULSE STROBE: Fast
		171–183	PULSE STROBE: Fast > Slow
		184	PULSE STROBE: Slow
		185–189	STROBE OPEN: Shutter Open
		190	RANDOM PULSE STROBE: Fast
		191–203	RANDOM PULSE STROBE: Fast > Slow
		204	RANDOM PULSE STROBE: Slow
		205–209	STROBE OPEN: Shutter Open
		210	STROBE 0-100-0%: Fast
		211–223	STROBE 0-100-0%: Fast > Slow
		224	STROBE 0-100-0%: Slow
		225–229	STROBE OPEN: Shutter Open
		230	RANDOM PULSE STROBE: Fast
		231–243	RANDOM PULSE STROBE: Fast > Slow
		244	RANDOM PULSE STROBE: Slow
		245–255	STROBE OPEN: Shutter Open
26	Zoom	0	Narrow
		1–254	Narrow > Wide
		255	Wide
27	Control	0–9	CONTROL: No Function
		10–14	Blackout on P/T
		15–19	No Feature: Reserved
		20–24	RGBW (Additive) Color Mixing Mode
		25–29	CMY (Subtractive) Color Mixing Mode
		30–34	Combine Main And Ring
		35–39	Disable Combine Main And Ring
		40–44	Defrost Fan On
		45–49	Defrost Fan Off
		50–54	Pan Reset

CH	Function	DMX	Description
27	Control (continued)	55–59	Tilt Reset
		60–64	Zoom Reset
		65–69	Reserved
		70–74	Reset All
		75–84	Reserved
		85–89	Reverse Pan
		90–94	Reverse Tilt
		95–99	Normal Pan
		100–104	Normal Tilt
		105–119	Reserved
		120–124	Fan Mode ECO
		125–129	Full Fan Mode
		130–134	Auto Fan Mode
		135–139	Fast Dimmer Mode
		140–144	Slow Dimmer Mode
		145–149	Dimmer Curve Linear
		150–154	Dimmer Curve Square
		155–159	Dimmer Curve Inverse Square
		160–164	Dimmer Curve S-Curve
		165–169	White Mode
		170–174	Full Mode
		175–179	Single-Color Calibration Off
		180–184	Single-Color Calibration On
		185–186	PWM 600Hz
		187–188	PWM 1200Hz
		189–190	PWM 2000Hz
		191–192	PWM 4000Hz
		193–194	PWM 6000Hz
		195–196	PWM 15000Hz
		197–239	Reserved: No Function
		240–247	Calibration On
		248–255	Calibration Off
28	Red	0	Min
		1–254	Min > Max
		255	Max
29	Green	0	Min
		1–254	Min > Max
		255	Max
30	Blue	0	Min
		1–254	Min > Max
		255	Max

CH	Function	DMX	Description
31	White	0	Min
		1–254	Min > Max
		255	Max

Mode Single Control: Standard 143ch

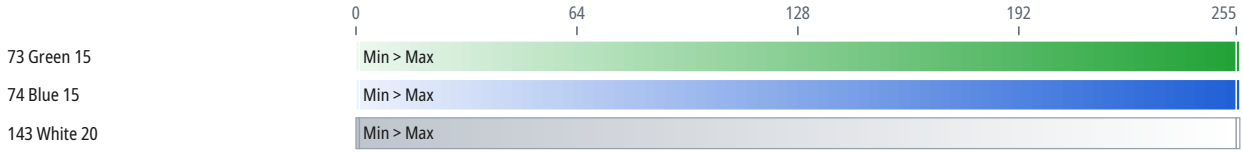
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 24 Shutter 1 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”; CH 25 Shutter 2 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”. The GDTF file gives these values for a console's Highlight function: CH 6 Color Temperature 1 0, CH 7 Color Temperature 2 0, CH 8 Color Macro 1 0, CH 9 Color Macro 2 0, CH 18 Color Macro 2 1 0, CH 20 Color Macro 2 2 0, CH 22 Dimmer 1 255, CH 23 Dimmer 2 255, CH 28 Red 1 255, CH 29 Green 1 255, CH 30 Blue 1 255, CH 31 White 1 255, CH 32 Red 255 (the same in each of the 13 cells), CH 33 Green 255 (the same in each of the 13 cells), CH 34 Blue 255 (the same in each of the 13 cells), CH 71 White 255 (the same in each of the 18 cells), CH 72 Red 255 (the same in each of the 18 cells), CH 73 Green 255 (the same in each of the 18 cells), CH 74 Blue 255 (the same in each of the 18 cells), CH 143 White 20 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Single Control: Basic 31ch” (p. 13)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Single Control: Basic 31ch” (p. 14)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Single Control: Basic 31ch” (p. 14)
6	Color Temperature 1	0	No Function
		1	19000K - CTC
		2	18900K - CTC
		3	18900K - CTC ... 18800K - CTC
		4	18800K - CTC
		5	18800K - CTC ... 18700K - CTC
		6	18700K - CTC
		7	18600K - CTC
		8–9	18500K - CTC
		10	18400K - CTC
		11	18400K - CTC ... 18300K - CTC
		12	18300K - CTC
		13	18200K - CTC
		14	18200K - CTC ... 18100K - CTC
		15	18100K - CTC
		16	18000K - CTC
		17	18000K - CTC ... 17900K - CTC
		18	17900K - CTC
		19	17800K - CTC
		20	17800K - CTC ... 17700K - CTC
		21	17700K - CTC
		22	17600K - CTC
		23	17600K - CTC ... 17500K - CTC
		24	17500K - CTC
		25	17500K - CTC ... 17400K - CTC
		26	17400K - CTC
		27	17300K - CTC
		28	17300K - CTC ... 17200K - CTC
		29	17200K - CTC
		30	17100K - CTC
		31	17100K - CTC ... 17000K - CTC
		32	17000K - CTC
		33	16900K - CTC
		34	16900K - CTC ... 16800K - CTC
		35	16800K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	36	16800K - CTC ... 16700K - CTC
		37	16700K - CTC
		38	16600K - CTC
		39	16600K - CTC ... 16500K - CTC
		40	16500K - CTC
		41	16400K - CTC
		42	16400K - CTC ... 16300K - CTC
		43	16300K - CTC
		44	16200K - CTC
		45	16200K - CTC ... 16100K - CTC
		46	16100K - CTC
		47	16000K - CTC
		48	16000K - CTC ... 15900K - CTC
		49	15900K - CTC
		50	15900K - CTC ... 15800K - CTC
		51	15800K - CTC
		52	15700K - CTC
		53	15700K - CTC ... 157600K - CTC
		54	157600K - CTC
		55	15500K - CTC
		56	15500K - CTC ... 15400K - CTC
		57	15400K - CTC
		58	15300K - CTC
		59	15300K - CTC ... 15200K - CTC
		60	15200K - CTC
		61	15200K - CTC ... 15100K - CTC
		62	15100K - CTC
		63	15000K - CTC
		64	15000K - CTC ... 14900K - CTC
		65	14900K - CTC
		66	14800K - CTC
		67	14800K - CTC ... 14700K - CTC
		68	14700K - CTC
		69	14600K - CTC
		70	14600K - CTC ... 14500K - CTC
		71	14500K - CTC
		72	14400K - CTC
		73	14400K - CTC ... 14300K - CTC
		74	14300K - CTC
		75	14300K - CTC ... 14200K - CTC
		76	14200K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	77	14100K - CTC
		78	14100K - CTC ... 14000K - CTC
		79	14000K - CTC
		80	13900K - CTC
		81	13900K - CTC ... 13800K - CTC
		82	13800K - CTC
		83	13700K - CTC
		84	13700K - CTC ... 13600K - CTC
		85	13600K - CTC
		86	13500K - CTC
		87	13500K - CTC ... 13400K - CTC
		88	13400K - CTC
		89	13400K - CTC ... 13300K - CTC
		90	13300K - CTC
		91	13200K - CTC
		92	13200K - CTC ... 13100K - CTC
		93	13100K - CTC
		94	13000K - CTC
		95	13000K - CTC ... 12900K - CTC
		96	12900K - CTC
		97	12800K - CTC
		98	12800K - CTC ... 12700K - CTC
		99	12700K - CTC
		100	12700K - CTC ... 12600K - CTC
		101	12600K - CTC
		102	12500K - CTC
		103	12500K - CTC ... 12400K - CTC
		104	12400K - CTC
		105	12300K - CTC
		106	12300K - CTC ... 12200K - CTC
		107	12200K - CTC
		108	12100K - CTC
		109	12100K - CTC ... 12000K - CTC
		110	12000K - CTC
		111	12000K - CTC ... 11900K - CTC
		112	11900K - CTC
		113	11800K - CTC
		114	11800K - CTC ... 11700K - CTC
		115	11700K - CTC
		116	11600K - CTC
		117	11600K - CTC ... 11500K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	118	11500K - CTC
		119	11400K - CTC
		120	11400K - CTC ... 11300K - CTC
		121	11300K - CTC
		122	11200K - CTC
		123	11200K - CTC ... 11100K - CTC
		124	11100K - CTC
		125	11000K - CTC
		126	11000K - CTC ... 10900K - CTC
		127	10900K - CTC
		128	10900K - CTC ... 10800K - CTC
		129	10800K - CTC
		130	10700K - CTC
		131	10700K - CTC ... 10600K - CTC
		132	10600K - CTC
		133	10500K - CTC
		134	10500K - CTC ... 10400K - CTC
		135	10400K - CTC
		136	10300K - CTC
		137	10300K - CTC ... 10200K - CTC
		138	10200K - CTC
		139	10200K - CTC ... 10100K - CTC
		140	10100K - CTC
		141	10000K - CTC
		142	10000K - CTC ... 9900K - CTC
		143	9900K - CTC
		144	9800K - CTC
		145	9800K - CTC ... 9700K - CTC
		146	9700K - CTC
		147	9600K - CTC
		148	9600K - CTC ... 9500K - CTC
		149	9500K - CTC
		150	9400K - CTC
		151	9400K - CTC ... 9300K - CTC
		152	9300K - CTC
		153	9300K - CTC ... 9200K - CTC
		154	9200K - CTC
		155	9100K - CTC
		156	9100K - CTC ... 9000K - CTC
		157	9000K - CTC
		158	8900K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	159	8900K - CTC ... 8800K - CTC
		160	8800K - CTC
		161	8700K - CTC
		162	8700K - CTC ... 8600K - CTC
		163	8600K - CTC
		164	8500K - CTC
		165	8500K - CTC ... 8400K - CTC
		166	8400K - CTC
		167	8300K - CTC
		168	8300K - CTC ... 8200K - CTC
		169	8200K - CTC
		170	8200K - CTC ... 8100K - CTC
		171	8100K - CTC
		172	8000K - CTC
		173	8000K - CTC ... 7900K - CTC
		174	7900K - CTC
		175	7800K - CTC
		176	7800K - CTC ... 7700K - CTC
		177	7700K - CTC
		178	7600K - CTC
		179	7600K - CTC ... 7500K - CTC
		180	7500K - CTC
		181	7500K - CTC ... 7400K - CTC
		182	7400K - CTC
		183	7300K - CTC
		184	7300K - CTC ... 7200K - CTC
		185	7200K - CTC
		186	7100K - CTC
		187	7100K - CTC ... 7000K - CTC
		188	7000K - CTC
		189	6900K - CTC
		190	6900K - CTC ... 6800K - CTC
		191	6800K - CTC
		192	6800K - CTC ... 6700K - CTC
		193	6700K - CTC
		194	6600K - CTC
		195	6600K - CTC ... 6500K - CTC
		196	6500K - CTC
		197	6400K - CTC
		198	6400K - CTC ... 6300K - CTC
		199	6300K - CTC
		200	6200K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	201	6200K - CTC ... 6100K - CTC
		202	6100K - CTC
		203	6000K - CTC
		204	6000K - CTC ... 5900K - CTC
		205	5900K - CTC
		206	5900K - CTC ... 5800K - CTC
		207	5800K - CTC
		208	5700K - CTC
		209	5700K - CTC ... 5600K - CTC
		210	5600K - CTC
		211	5500K - CTC
		212	5500K - CTC ... 5400K - CTC
		213	5400K - CTC
		214	5300K - CTC
		215	5300K - CTC ... 5200K - CTC
		216	5200K - CTC
		217	5100K - CTC
		218	5100K - CTC ... 5000K - CTC
		219	5000K - CTC
		220	5000K - CTC ... 4900K - CTC
		221	4900K - CTC
		222	4800K - CTC
		223	4800K - CTC ... 4700K - CTC
		224	4700K - CTC
		225	4600K - CTC
		226	4600K - CTC ... 4500K - CTC
		227	4500K - CTC
		228	4400K - CTC
		229	4400K - CTC ... 4300K - CTC
		230	4300K - CTC
		231	4300K - CTC ... 4200K - CTC
		232	4200K - CTC
		233	4100K - CTC
		234	4100K - CTC ... 4000K - CTC
		235	4000K - CTC
		236	3900K - CTC
		237	3900K - CTC ... 3800K - CTC
		238	3800K - CTC
		239	3700K - CTC
		240	3700K - CTC ... 3600K - CTC
		241	3600K - CTC
		242–243	3500K - CTC

CH	Function	DMX	Description
6	Color Temperature 1 (continued)	244	3400K - CTC
		245	3400K - CTC ... 3300K - CTC
		246	3300K - CTC
		247	3200K - CTC
		248	3200K - CTC ... 3100K - CTC
		249	3100K - CTC
		250	3000K - CTC
		251	3000K - CTC ... 2900K - CTC
		252	2900K - CTC
		253	2800K - CTC
		254	2800K - CTC ... 2700K - CTC
		255	2700K - CTC
7	Color Temperature 2		Same as CH 7 in the mode “Single Control: Basic 31ch” (p. 20)
8	Color Macro 1		Same as CH 8 in the mode “Single Control: Basic 31ch” (p. 26)
9	Color Macro 2	0	COLOR MACRO OPEN: Open
		1–2	White 2700K - CTC
		3–4	White 3200K - CTC
		5–8	White 4200K - CTC
		9–10	White 5600K - CTC
		11–14	White 8000K - CTC (6500–8000 K)
		15	Blue
		16–51	+Green
		52	Cyan
		53–88	-Blue
		89	Green
		90–125	+Red
		126	Yellow
		127–162	-Green
		163	Red
		164–200	+Blue
		201	Magenta
		202–238	-Red
		239	Blue
		240	COLOR EFFECT FADE: Fast
		241–246	COLOR EFFECT FADE: Fast > Slow
		247	COLOR EFFECT FADE: Slow
		248	COLOR EFFECT SNAP: Fast
		249–254	COLOR EFFECT SNAP: Fast > Slow
		255	COLOR EFFECT SNAP: Slow
10	Effects 1		Same as CH 10 in the mode “Single Control: Basic 31ch” (p. 27)
11	Effects 2	0	PATTERN: Open

CH	Function	DMX	Description
11	Effects 2 (continued)	1–255	Gobo Indexing
12	Effects 2 1		Same as CH 12 in the mode “Single Control: Basic 31ch” (p. 27)
13	Effects 2 Speed 1		Same as CH 13 in the mode “Single Control: Basic 31ch” (p. 28)
14	Effects 2 Adjust 1 1		Same as CH 14 in the mode “Single Control: Basic 31ch” (p. 28)
15	Effects 2 2		Same as CH 15 in the mode “Single Control: Basic 31ch” (p. 28)
16	Effects 2 Speed 2		Same as CH 16 in the mode “Single Control: Basic 31ch” (p. 29)
17	Effects 2 Adjust 1 2		Same as CH 17 in the mode “Single Control: Basic 31ch” (p. 30)
18	Color Macro 2 1		Same as CH 18 in the mode “Single Control: Basic 31ch” (p. 30)
19	Background Dimmer 1		Same as CH 19 in the mode “Single Control: Basic 31ch” (p. 30)
20	Color Macro 2 2		Same as CH 20 in the mode “Single Control: Basic 31ch” (p. 30)
21	Background Dimmer 2		Same as CH 21 in the mode “Single Control: Basic 31ch” (p. 31)
22	Dimmer 1		Same as CH 22 in the mode “Single Control: Basic 31ch” (p. 31)
23	Dimmer 2		Same as CH 23 in the mode “Single Control: Basic 31ch” (p. 31)
24	Shutter 1		Same as CH 24 in the mode “Single Control: Basic 31ch” (p. 31)
25	Shutter 2		Same as CH 25 in the mode “Single Control: Basic 31ch” (p. 32)
26	Zoom		Same as CH 26 in the mode “Single Control: Basic 31ch” (p. 33)
27	Control		Same as CH 27 in the mode “Single Control: Basic 31ch” (p. 33)
28	Red 1	0	Min
		1–254	Min > Max
		255	Max
29	Green 1	0	Min
		1–254	Min > Max
		255	Max
30	Blue 1	0	Min
		1–254	Min > Max
		255	Max
31	White 1	0	Min
		1–254	Min > Max
		255	Max
32	Red 2	0	Min

CH	Function	DMX	Description
32	Red 2 (continued)	1–254	Min > Max
		255	Max
33	Green 2	0	Min
		1–254	Min > Max
		255	Max
34	Blue 2	0	Min
		1–254	Min > Max
		255	Max
71	White 2	0	Min
		1–254	Min > Max
		255	Max
72	Red 15	0	Min
		1–254	Min > Max
		255	Max
73	Green 15	0	Min
		1–254	Min > Max
		255	Max
74	Blue 15	0	Min
		1–254	Min > Max
		255	Max
143	White 20	0	Min
		1–254	Min > Max
		255	Max

CH 32–70: 13 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 32–34); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	32	33	34	2	35	36	37	3	38	39	40
4	41	42	43	5	44	45	46	6	47	48	49
7	50	51	52	8	53	54	55	9	56	57	58
10	59	60	61	11	62	63	64	12	65	66	67
13	68	69	70								

CH 71–142: 18 cells of 4 channels each. Every cell works as cell 1 in the table above (CH 71–74); the table below gives each cell's channel numbers.

Cell	White	Red	Green	Blue	Cell	White	Red	Green	Blue
1	71	72	73	74	2	75	76	77	78
3	79	80	81	82	4	83	84	85	86
5	87	88	89	90	6	91	92	93	94
7	95	96	97	98	8	99	100	101	102
9	103	104	105	106	10	107	108	109	110
11	111	112	113	114	12	115	116	117	118

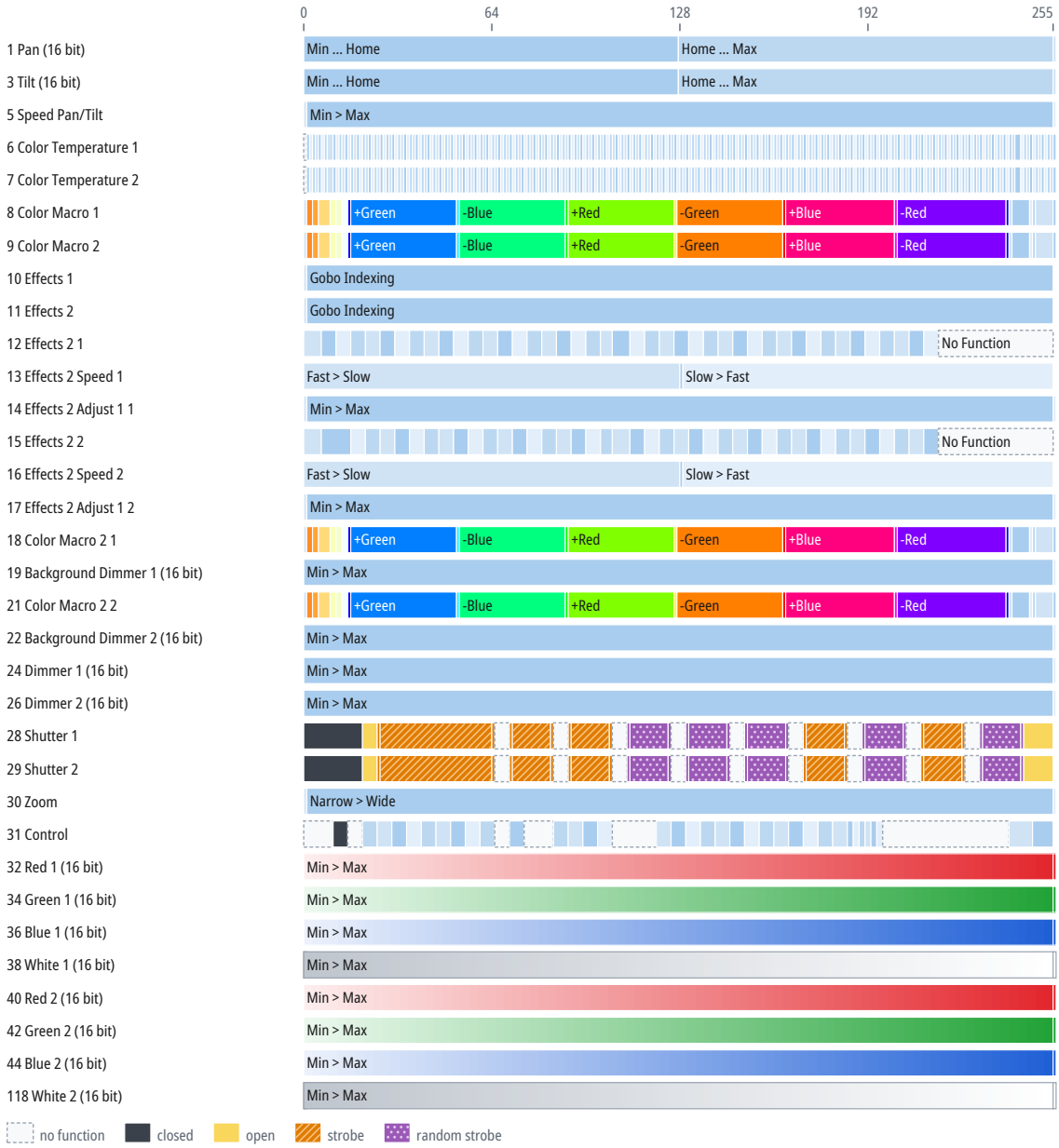
Cell	White	Red	Green	Blue	Cell	White	Red	Green	Blue
13	119	120	121	122	14	123	124	125	126
15	127	128	129	130	16	131	132	133	134
17	135	136	137	138	18	139	140	141	142

Mode Single Control: Advanced 263ch

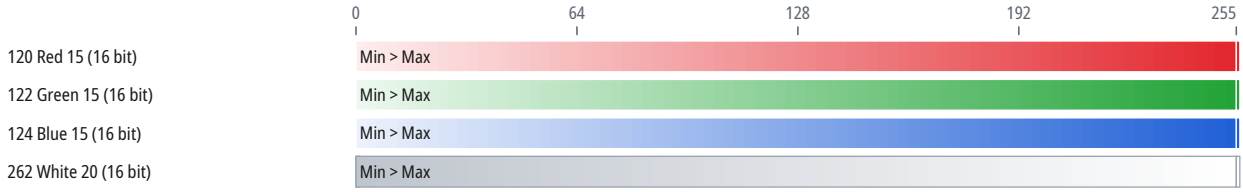
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 28 Shutter 1 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”; CH 29 Shutter 2 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”. The GDTF file gives these values for a console's Highlight function: CH 6 Color Temperature 1 0, CH 7 Color Temperature 2 0, CH 8 Color Macro 1 0, CH 9 Color Macro 2 0, CH 18 Color Macro 2 1 0, CH 21 Color Macro 2 2 0, CH 24 Dimmer 1 255, CH 26 Dimmer 2 255, CH 32 Red 1 255, CH 34 Green 1 255, CH 36 Blue 1 255, CH 38 White 1 255, CH 40 Red 255 (the same in each of the 13 cells), CH 42 Green 255 (the same in each of the 13 cells), CH 44 Blue 255 (the same in each of the 13 cells), CH 118 White 255 (the same in each of the 18 cells), CH 120 Red 255 (the same in each of the 18 cells), CH 122 Green 255 (the same in each of the 18 cells), CH 124 Blue 255 (the same in each of the 18 cells), CH 262 White 20 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Single Control: Basic 31ch” (p. 13)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Single Control: Basic 31ch” (p. 14)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Single Control: Basic 31ch” (p. 14)
6	Color Temperature 1		Same as CH 6 in the mode “Single Control: Standard 143ch” (p. 38)
7	Color Temperature 2		Same as CH 7 in the mode “Single Control: Basic 31ch” (p. 20)
8	Color Macro 1		Same as CH 8 in the mode “Single Control: Basic 31ch” (p. 26)
9	Color Macro 2		Same as CH 9 in the mode “Single Control: Standard 143ch” (p. 44)
10	Effects 1		Same as CH 10 in the mode “Single Control: Basic 31ch” (p. 27)
11	Effects 2		Same as CH 11 in the mode “Single Control: Basic 31ch” (p. 27)
12	Effects 2 1		Same as CH 12 in the mode “Single Control: Basic 31ch” (p. 27)
13	Effects 2 Speed 1		Same as CH 13 in the mode “Single Control: Basic 31ch” (p. 28)
14	Effects 2 Adjust 1 1		Same as CH 14 in the mode “Single Control: Basic 31ch” (p. 28)
15	Effects 2 2		Same as CH 15 in the mode “Single Control: Basic 31ch” (p. 28)
16	Effects 2 Speed 2		Same as CH 16 in the mode “Single Control: Basic 31ch” (p. 29)
17	Effects 2 Adjust 1 2		Same as CH 17 in the mode “Single Control: Basic 31ch” (p. 30)
18	Color Macro 2 1		Same as CH 18 in the mode “Single Control: Basic 31ch” (p. 30)
19	Background Dimmer 1		BACKGROUND DIMMER
		0	Min
		0–255	Min > Max
		255	Max
20	Background Dimmer 1 Fine	0–255	Fine adjustment of CH 19
21	Color Macro 2 2		Same as CH 20 in the mode “Single Control: Basic 31ch” (p. 30)
22	Background Dimmer 2		BACKGROUND DIMMER
		0	Min
		0–255	Min > Max
		255	Max
23	Background Dimmer 2 Fine	0–255	Fine adjustment of CH 22
24	Dimmer 1	0	Min
		0–255	Min > Max
		255	Max

CH	Function	DMX	Description
25	Dimmer 1 Fine	0–255	Fine adjustment of CH 24
26	Dimmer 2	0	Min
		0–255	Min > Max
		255	Max
27	Dimmer 2 Fine	0–255	Fine adjustment of CH 26
28	Shutter 1		Same as CH 24 in the mode “Single Control: Basic 31ch” (p. 31)
29	Shutter 2		Same as CH 25 in the mode “Single Control: Basic 31ch” (p. 32)
30	Zoom		Same as CH 26 in the mode “Single Control: Basic 31ch” (p. 33)
31	Control		Same as CH 27 in the mode “Single Control: Basic 31ch” (p. 33)
32	Red 1	0	Min
		0–255	Min > Max
		255	Max
33	Red 1 Fine	0–255	Fine adjustment of CH 32
34	Green 1	0	Min
		0–255	Min > Max
		255	Max
35	Green 1 Fine	0–255	Fine adjustment of CH 34
36	Blue 1	0	Min
		0–255	Min > Max
		255	Max
37	Blue 1 Fine	0–255	Fine adjustment of CH 36
38	White 1	0	Min
		0–255	Min > Max
		255	Max
39	White 1 Fine	0–255	Fine adjustment of CH 38
40	Red 2	0	Min
		0–255	Min > Max
		255	Max
41	Red 2 Fine	0–255	Fine adjustment of CH 40
42	Green 2	0	Min
		0–255	Min > Max
		255	Max
43	Green 2 Fine	0–255	Fine adjustment of CH 42
44	Blue 2	0	Min
		0–255	Min > Max
		255	Max
117	Blue 14 Fine	0–255	Fine adjustment of CH 116
118	White 2	0	Min
		0–255	Min > Max

CH	Function	DMX	Description
118	White 2 (continued)	255	Max
119	White 2 Fine	0–255	Fine adjustment of CH 118
120	Red 15	0	Min
		0–255	Min > Max
		255	Max
121	Red 15 Fine	0–255	Fine adjustment of CH 120
122	Green 15	0	Min
		0–255	Min > Max
		255	Max
123	Green 15 Fine	0–255	Fine adjustment of CH 122
124	Blue 15	0	Min
		0–255	Min > Max
		255	Max
261	Blue 32 Fine	0–255	Fine adjustment of CH 260
262	White 20	0	Min
		0–255	Min > Max
		255	Max
263	White 20 Fine	0–255	Fine adjustment of CH 262

CH 39–116: 13 cells of 6 channels each. Every cell works as cell 1 in the table above (CH 39–44); the table below gives each cell's channel numbers.

Cell	White Fine	Red	Red Fine	Green	Green Fine	Blue
1	39	40	41	42	43	44
2	45	46	47	48	49	50
3	51	52	53	54	55	56
4	57	58	59	60	61	62
5	63	64	65	66	67	68
6	69	70	71	72	73	74
7	75	76	77	78	79	80
8	81	82	83	84	85	86
9	87	88	89	90	91	92
10	93	94	95	96	97	98
11	99	100	101	102	103	104
12	105	106	107	108	109	110
13	111	112	113	114	115	116

CH 117–260: 18 cells of 8 channels each. Every cell works as cell 1 in the table above (CH 117–124); the table below gives each cell's channel numbers.

Cell	Blue Fine	White	White Fine	Red	Red Fine	Green	Green Fine	Blue
1	117	118	119	120	121	122	123	124
2	125	126	127	128	129	130	131	132
3	133	134	135	136	137	138	139	140
4	141	142	143	144	145	146	147	148

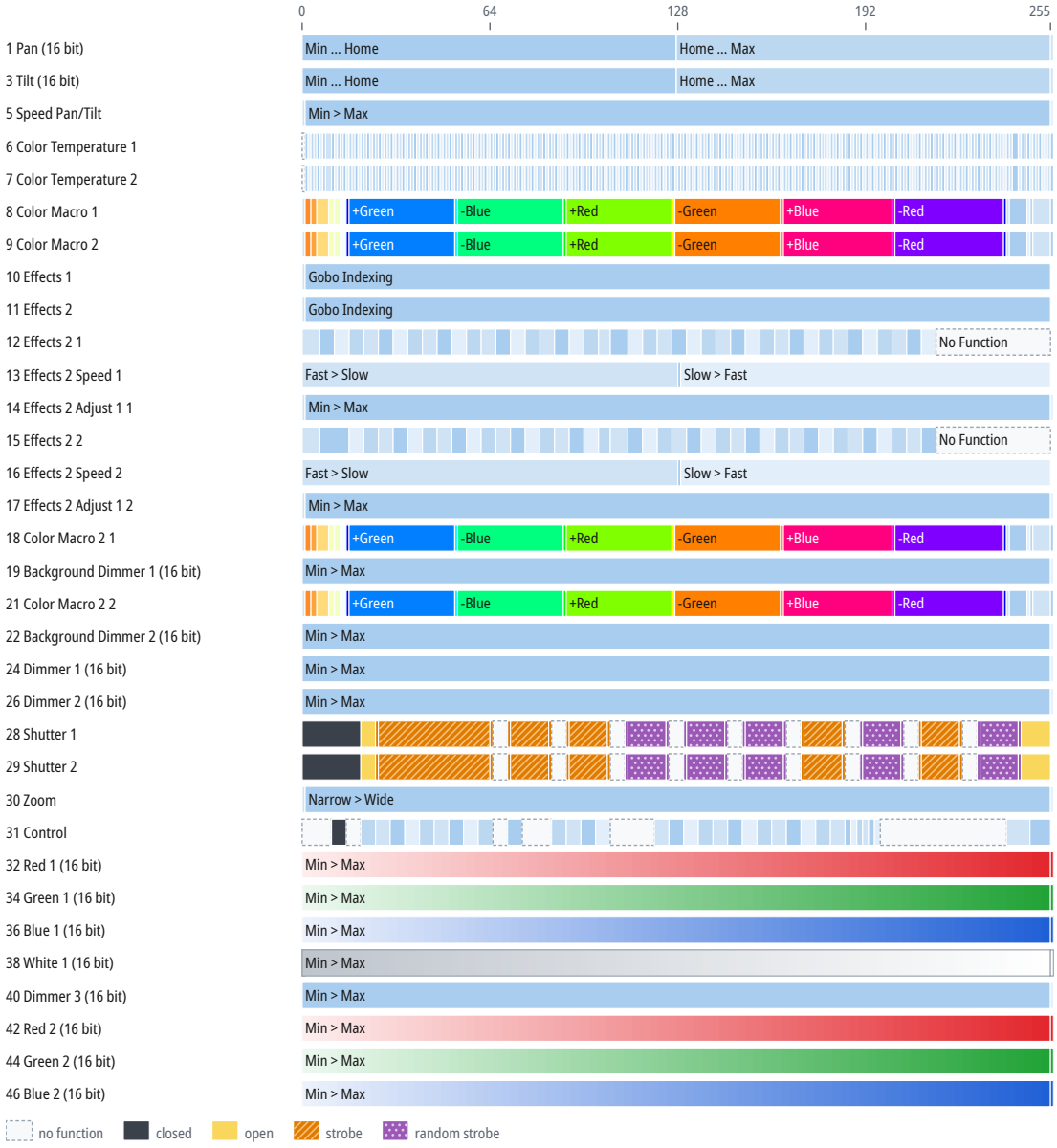
Cell	Blue Fine	White	White Fine	Red	Red Fine	Green	Green Fine	Blue
5	149	150	151	152	153	154	155	156
6	157	158	159	160	161	162	163	164
7	165	166	167	168	169	170	171	172
8	173	174	175	176	177	178	179	180
9	181	182	183	184	185	186	187	188
10	189	190	191	192	193	194	195	196
11	197	198	199	200	201	202	203	204
12	205	206	207	208	209	210	211	212
13	213	214	215	216	217	218	219	220
14	221	222	223	224	225	226	227	228
15	229	230	231	232	233	234	235	236
16	237	238	239	240	241	242	243	244
17	245	246	247	248	249	250	251	252
18	253	254	255	256	257	258	259	260

Mode Single Control: Tour 325ch

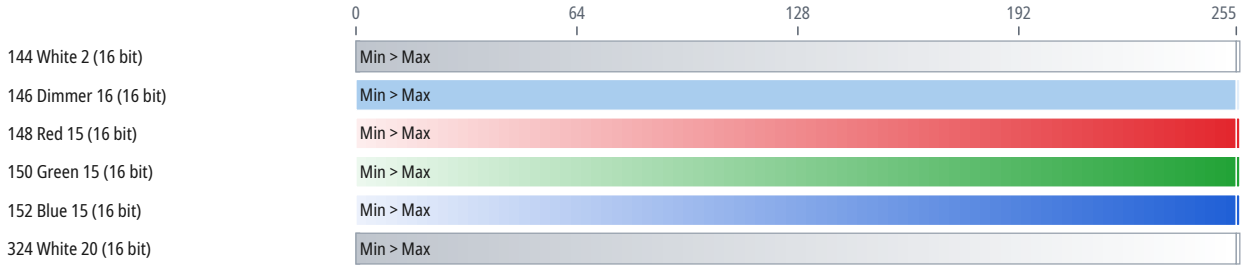
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 28 Shutter 1 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”; CH 29 Shutter 2 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”. The GDTF file gives these values for a console's Highlight function: CH 6 Color Temperature 1 0, CH 7 Color Temperature 2 0, CH 8 Color Macro 1 0, CH 9 Color Macro 2 0, CH 18 Color Macro 2 1 0, CH 21 Color Macro 2 2 0, CH 24 Dimmer 1 255, CH 26 Dimmer 2 255, CH 32 Red 1 255, CH 34 Green 1 255, CH 36 Blue 1 255, CH 38 White 1 255, CH 40 Dimmer 255 (the same in each of the 13 cells), CH 42 Red 255 (the same in each of the 13 cells), CH 44 Green 255 (the same in each of the 13 cells), CH 46 Blue 255 (the same in each of the 13 cells), CH 144 White 255 (the same in each of the 18 cells), CH 146 Dimmer 255 (the same in each of the 18 cells), CH 148 Red 255 (the same in each of the 18 cells), CH 150 Green 255 (the same in each of the 18 cells), CH 152 Blue 255 (the same in each of the 18 cells), CH 324 White 20 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Single Control: Basic 31ch” (p. 13)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Single Control: Basic 31ch” (p. 14)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Single Control: Basic 31ch” (p. 14)
6	Color Temperature 1		Same as CH 6 in the mode “Single Control: Standard 143ch” (p. 38)
7	Color Temperature 2		Same as CH 7 in the mode “Single Control: Basic 31ch” (p. 20)
8	Color Macro 1		Same as CH 8 in the mode “Single Control: Basic 31ch” (p. 26)
9	Color Macro 2		Same as CH 9 in the mode “Single Control: Standard 143ch” (p. 44)
10	Effects 1		Same as CH 10 in the mode “Single Control: Basic 31ch” (p. 27)
11	Effects 2		Same as CH 11 in the mode “Single Control: Basic 31ch” (p. 27)
12	Effects 2 1		Same as CH 12 in the mode “Single Control: Basic 31ch” (p. 27)
13	Effects 2 Speed 1		Same as CH 13 in the mode “Single Control: Basic 31ch” (p. 28)
14	Effects 2 Adjust 1 1		Same as CH 14 in the mode “Single Control: Basic 31ch” (p. 28)
15	Effects 2 2		Same as CH 15 in the mode “Single Control: Basic 31ch” (p. 28)
16	Effects 2 Speed 2		Same as CH 16 in the mode “Single Control: Basic 31ch” (p. 29)
17	Effects 2 Adjust 1 2		Same as CH 17 in the mode “Single Control: Basic 31ch” (p. 30)
18	Color Macro 2 1		Same as CH 18 in the mode “Single Control: Basic 31ch” (p. 30)
19	Background Dimmer 1		Same as CH 19 in the mode “Single Control: Advanced 263ch” (p. 50)
20	Background Dimmer 1 Fine	0–255	Fine adjustment of CH 19
21	Color Macro 2 2		Same as CH 20 in the mode “Single Control: Basic 31ch” (p. 30)
22	Background Dimmer 2		Same as CH 22 in the mode “Single Control: Advanced 263ch” (p. 50)
23	Background Dimmer 2 Fine	0–255	Fine adjustment of CH 22
24	Dimmer 1		Same as CH 24 in the mode “Single Control: Advanced 263ch” (p. 50)
25	Dimmer 1 Fine	0–255	Fine adjustment of CH 24
26	Dimmer 2		Same as CH 26 in the mode “Single Control: Advanced 263ch” (p. 51)
27	Dimmer 2 Fine	0–255	Fine adjustment of CH 26
28	Shutter 1		Same as CH 24 in the mode “Single Control: Basic 31ch” (p. 31)

CH	Function	DMX	Description
29	Shutter 2		Same as CH 25 in the mode “Single Control: Basic 31ch” (p. 32)
30	Zoom		Same as CH 26 in the mode “Single Control: Basic 31ch” (p. 33)
31	Control		Same as CH 27 in the mode “Single Control: Basic 31ch” (p. 33)
32	Red 1		Same as CH 32 in the mode “Single Control: Advanced 263ch” (p. 51)
33	Red 1 Fine	0–255	Fine adjustment of CH 32
34	Green 1		Same as CH 34 in the mode “Single Control: Advanced 263ch” (p. 51)
35	Green 1 Fine	0–255	Fine adjustment of CH 34
36	Blue 1		Same as CH 36 in the mode “Single Control: Advanced 263ch” (p. 51)
37	Blue 1 Fine	0–255	Fine adjustment of CH 36
38	White 1		Same as CH 38 in the mode “Single Control: Advanced 263ch” (p. 51)
39	White 1 Fine	0–255	Fine adjustment of CH 38
40	Dimmer 3	0	Min
		0–255	Min > Max
		255	Max
41	Dimmer 3 Fine	0–255	Fine adjustment of CH 40
42	Red 2	0	Min
		0–255	Min > Max
		255	Max
43	Red 2 Fine	0–255	Fine adjustment of CH 42
44	Green 2	0	Min
		0–255	Min > Max
		255	Max
45	Green 2 Fine	0–255	Fine adjustment of CH 44
46	Blue 2	0	Min
		0–255	Min > Max
		255	Max
143	Blue 14 Fine	0–255	Fine adjustment of CH 142
144	White 2	0	Min
		0–255	Min > Max
		255	Max
145	White 2 Fine	0–255	Fine adjustment of CH 144
146	Dimmer 16	0	Min
		0–255	Min > Max
		255	Max
147	Dimmer 16 Fine	0–255	Fine adjustment of CH 146
148	Red 15	0	Min

CH	Function	DMX	Description
148	Red 15 (continued)	0–255	Min > Max
		255	Max
149	Red 15 Fine	0–255	Fine adjustment of CH 148
150	Green 15	0	Min
		0–255	Min > Max
		255	Max
151	Green 15 Fine	0–255	Fine adjustment of CH 150
152	Blue 15	0	Min
		0–255	Min > Max
		255	Max
323	Blue 32 Fine	0–255	Fine adjustment of CH 322
324	White 20		Same as CH 262 in the mode “Single Control: Advanced 263ch” (p. 52)
325	White 20 Fine	0–255	Fine adjustment of CH 324

CH 39–142: 13 cells of 8 channels each. Every cell works as cell 1 in the table above (CH 39–46); the table below gives each cell's channel numbers.

Cell	White Fine	Dimmer	Dimmer Fine	Red	Red Fine	Green	Green Fine	Blue
1	39	40	41	42	43	44	45	46
2	47	48	49	50	51	52	53	54
3	55	56	57	58	59	60	61	62
4	63	64	65	66	67	68	69	70
5	71	72	73	74	75	76	77	78
6	79	80	81	82	83	84	85	86
7	87	88	89	90	91	92	93	94
8	95	96	97	98	99	100	101	102
9	103	104	105	106	107	108	109	110
10	111	112	113	114	115	116	117	118
11	119	120	121	122	123	124	125	126
12	127	128	129	130	131	132	133	134
13	135	136	137	138	139	140	141	142

CH 143–322: 18 cells of 10 channels each. Every cell works as cell 1 in the table above (CH 143–152); the table below gives each cell's channel numbers.

Cell	Blue Fine	White	White Fine	Dimmer	Dimmer Fine	Red	Red Fine	Green	Green Fine	Blue
1	143	144	145	146	147	148	149	150	151	152
2	153	154	155	156	157	158	159	160	161	162
3	163	164	165	166	167	168	169	170	171	172
4	173	174	175	176	177	178	179	180	181	182
5	183	184	185	186	187	188	189	190	191	192
6	193	194	195	196	197	198	199	200	201	202
7	203	204	205	206	207	208	209	210	211	212

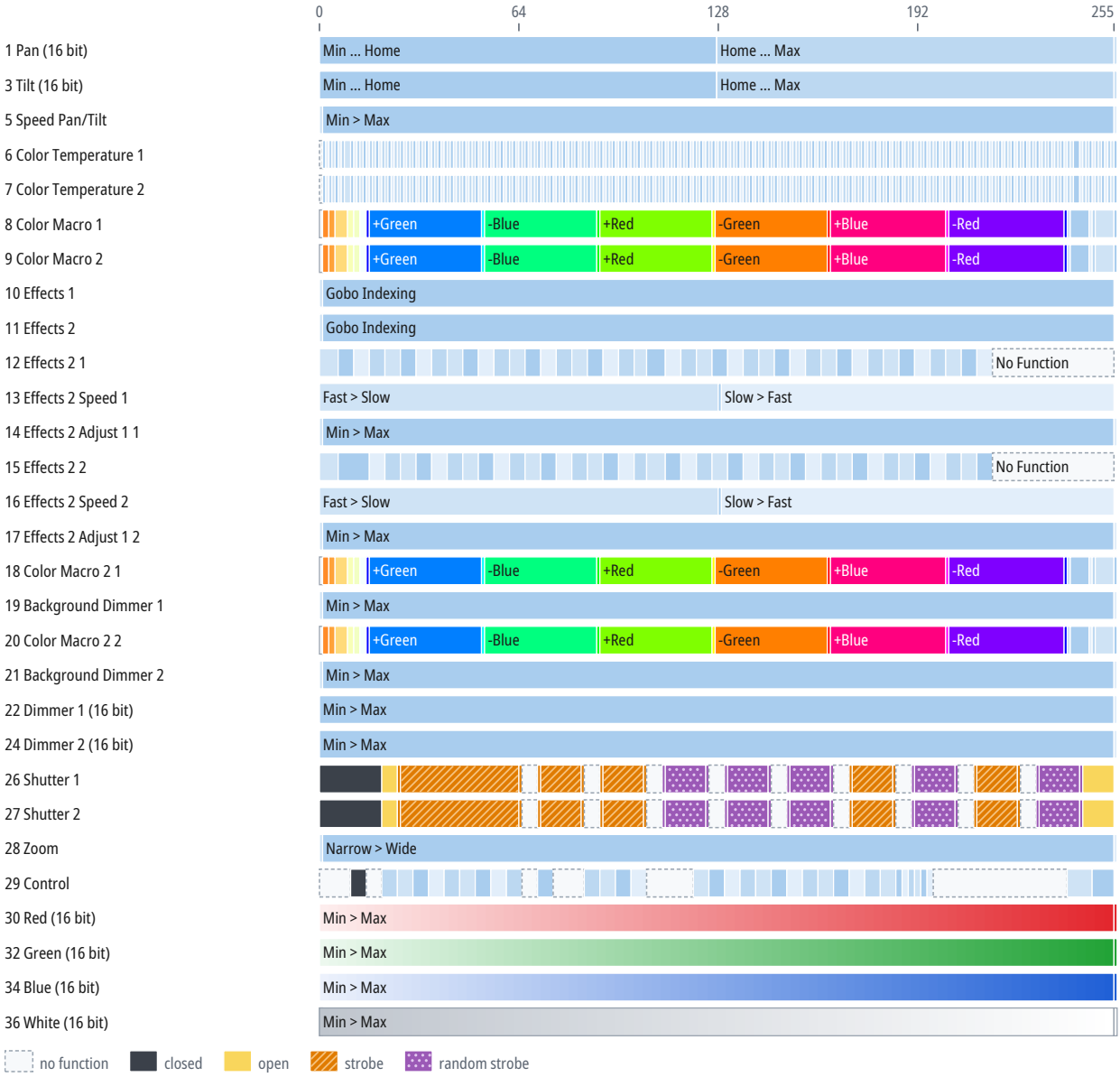
Cell	Blue Fine	White	White Fine	Dimmer	Dimmer Fine	Red	Red Fine	Green	Green Fine	Blue
8	213	214	215	216	217	218	219	220	221	222
9	223	224	225	226	227	228	229	230	231	232
10	233	234	235	236	237	238	239	240	241	242
11	243	244	245	246	247	248	249	250	251	252
12	253	254	255	256	257	258	259	260	261	262
13	263	264	265	266	267	268	269	270	271	272
14	273	274	275	276	277	278	279	280	281	282
15	283	284	285	286	287	288	289	290	291	292
16	293	294	295	296	297	298	299	300	301	302
17	303	304	305	306	307	308	309	310	311	312
18	313	314	315	316	317	318	319	320	321	322

Mode Single Control: Basic2 37ch

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 26 Shutter 1 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”; CH 27 Shutter 2 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”. The GDTF file gives these values for a console's Highlight function: CH 6 Color Temperature 1 0, CH 7 Color Temperature 2 0, CH 8 Color Macro 1 0, CH 9 Color Macro 2 0, CH 18 Color Macro 2 1 0, CH 20 Color Macro 2 2 0, CH 22 Dimmer 1 255, CH 24 Dimmer 2 255, CH 30 Red 255, CH 32 Green 255, CH 34 Blue 255, CH 36 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Single Control: Basic 31ch” (p. 13)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Single Control: Basic 31ch” (p. 14)

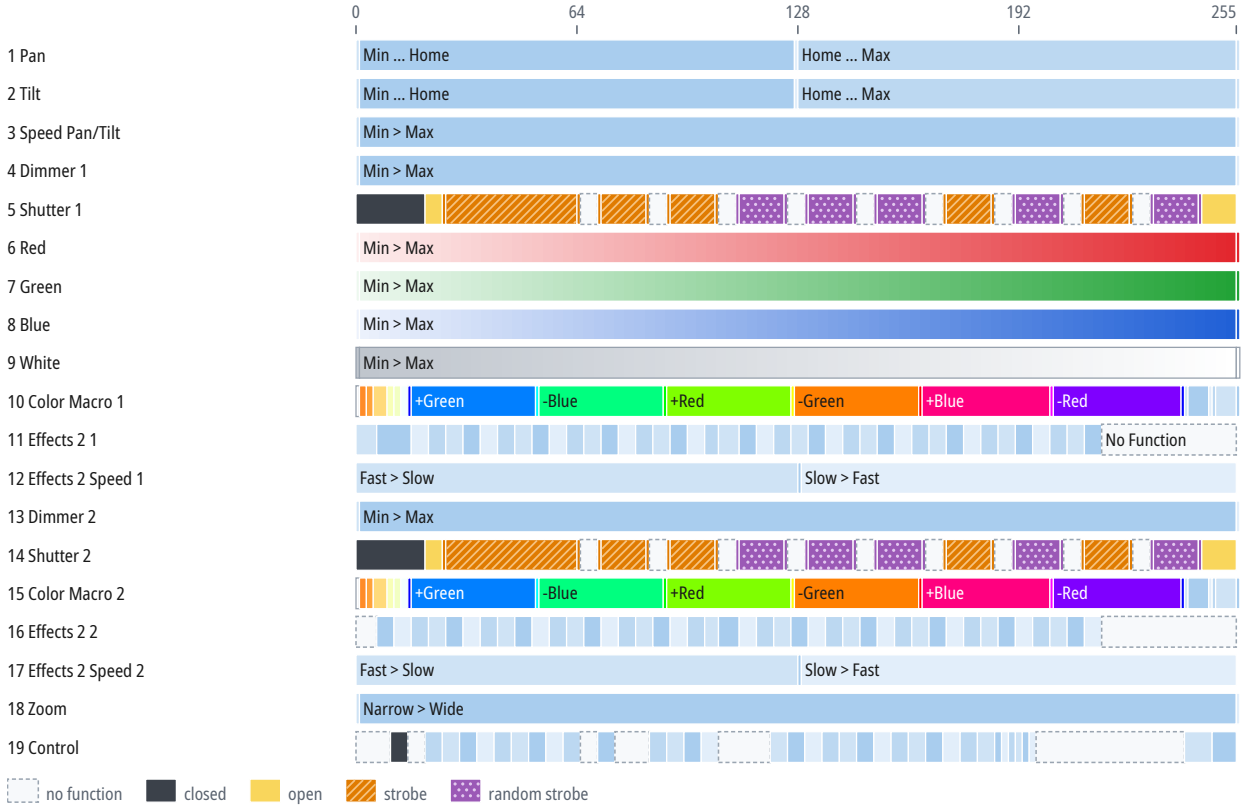
CH	Function	DMX	Description
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Single Control: Basic 31ch” (p. 14)
6	Color Temperature 1		Same as CH 6 in the mode “Single Control: Standard 143ch” (p. 38)
7	Color Temperature 2		Same as CH 7 in the mode “Single Control: Basic 31ch” (p. 20)
8	Color Macro 1		Same as CH 8 in the mode “Single Control: Basic 31ch” (p. 26)
9	Color Macro 2		Same as CH 9 in the mode “Single Control: Standard 143ch” (p. 44)
10	Effects 1		Same as CH 10 in the mode “Single Control: Basic 31ch” (p. 27)
11	Effects 2		Same as CH 11 in the mode “Single Control: Basic 31ch” (p. 27)
12	Effects 2 1		Same as CH 12 in the mode “Single Control: Basic 31ch” (p. 27)
13	Effects 2 Speed 1		Same as CH 13 in the mode “Single Control: Basic 31ch” (p. 28)
14	Effects 2 Adjust 1 1		Same as CH 14 in the mode “Single Control: Basic 31ch” (p. 28)
15	Effects 2 2		Same as CH 15 in the mode “Single Control: Basic 31ch” (p. 28)
16	Effects 2 Speed 2		Same as CH 16 in the mode “Single Control: Basic 31ch” (p. 29)
17	Effects 2 Adjust 1 2		Same as CH 17 in the mode “Single Control: Basic 31ch” (p. 30)
18	Color Macro 2 1		Same as CH 18 in the mode “Single Control: Basic 31ch” (p. 30)
19	Background Dimmer 1		Same as CH 19 in the mode “Single Control: Basic 31ch” (p. 30)
20	Color Macro 2 2		Same as CH 20 in the mode “Single Control: Basic 31ch” (p. 30)
21	Background Dimmer 2		Same as CH 21 in the mode “Single Control: Basic 31ch” (p. 31)
22	Dimmer 1		Same as CH 24 in the mode “Single Control: Advanced 263ch” (p. 50)
23	Dimmer 1 Fine	0–255	Fine adjustment of CH 22
24	Dimmer 2		Same as CH 26 in the mode “Single Control: Advanced 263ch” (p. 51)
25	Dimmer 2 Fine	0–255	Fine adjustment of CH 24
26	Shutter 1		Same as CH 24 in the mode “Single Control: Basic 31ch” (p. 31)
27	Shutter 2		Same as CH 25 in the mode “Single Control: Basic 31ch” (p. 32)
28	Zoom		Same as CH 26 in the mode “Single Control: Basic 31ch” (p. 33)
29	Control		Same as CH 27 in the mode “Single Control: Basic 31ch” (p. 33)
30	Red	0	Min

CH	Function	DMX	Description
30	Red (continued)	0–255	Min > Max
		255	Max
31	Red Fine	0–255	Fine adjustment of CH 30
32	Green	0	Min
		0–255	Min > Max
		255	Max
33	Green Fine	0–255	Fine adjustment of CH 32
34	Blue	0	Min
		0–255	Min > Max
		255	Max
35	Blue Fine	0–255	Fine adjustment of CH 34
36	White	0	Min
		0–255	Min > Max
		255	Max
37	White Fine	0–255	Fine adjustment of CH 36

Mode Single Control: Busking 19Ch

If the device receives DMX in this mode but gives no light, check these channels: CH 5 Shutter 1 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”; CH 14 Shutter 2 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”. The GDTF file gives these values for a console's Highlight function: CH 4 Dimmer 1 255, CH 6 Red 255, CH 7 Green 255, CH 8 Blue 255, CH 9 White 255, CH 10 Color Macro 1 0, CH 13 Dimmer 2 255, CH 15 Color Macro 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0	Min
		1–126	Min ... Home
		127	Home
		128–254	Home ... Max
		255	Max
2	Tilt	0	Min
		1–126	Min ... Home
		127	Home
		128–254	Home ... Max
		255	Max
3	Speed Pan/Tilt		Same as CH 5 in the mode “Single Control: Basic 31ch” (p. 14)
4	Dimmer 1		Same as CH 22 in the mode “Single Control: Basic 31ch” (p. 31)
5	Shutter 1	0–19	Shutter Closed

CH	Function	DMX	Description
5	Shutter 1 (continued)	20–24	STROBE Close/Open: Shutter Open
		25	Strobe Fast > Slow: Fast
		26–63	Strobe: Fast > Slow (0.61–19.5 Hz)
		64	Strobe Fast > Slow: Slow
		65–69	STROBE Open: Shutter Open
		70	STROBE 100-0% Fast > Slow: Fast
		71–83	STROBE 100-0%: Fast > Slow (1.52–18.6 Hz)
		84	STROBE 100-0% Fast > Slow: Slow
		85–89	STROBE Open: Shutter Open
		90	STROBE 0-100% Fast > Slow: Fast
		91–103	STROBE 0-100%: Fast > Slow (1.52–18.6 Hz)
		104	STROBE 0-100% Fast > Slow: Slow
		105–109	STROBE Open: Shutter Open
		110	Random Strobe Fast > Slow: Fast
		111–123	Random Strobe: Fast > Slow (1.52–18.6 Hz)
		124	Random Strobe Fast > Slow: Slow
		125–129	STROBE Open: Shutter Open
		130	Random Strobe 100-0% Fast > Slow: Fast
		131–143	Random Strobe 100-0%: Fast > Slow (1.52–18.6 Hz)
		144	Random Strobe 100-0% Fast > Slow: Slow
		145–149	STROBE Open: Shutter Open
		150	Random Strobe 0-100% Fast > Slow: Fast
		151–163	Random Strobe 0-100%: Fast > Slow (1.52–18.6 Hz)
		164	Random Strobe 0-100% Fast > Slow: Slow
		165–169	STROBE Open: Shutter Open
		170	Pulse Strobe Fast > Slow: Fast
		171–183	Pulse Strobe: Fast > Slow (1.52–18.6 Hz)
		184	Pulse Strobe Fast > Slow: Slow
		185–189	STROBE Open: Shutter Open
		190	Random Pulse Strobe Fast > Slow: Fast
		191–203	Random Pulse Strobe: Fast > Slow (1.52–18.6 Hz)
		204	Random Pulse Strobe Fast > Slow: Slow
		205–209	STROBE Open: Shutter Open
		210	Strobe 0-100-0% Fast > Slow: Fast
		211–223	Strobe 0-100-0%: Fast > Slow (1.52–18.6 Hz)
		224	Strobe 0-100-0% Fast > Slow: Slow
		225–229	STROBE Open: Shutter Open
		230	Random Pulse Strobe Fast > Slow: Fast
		231–243	Random Pulse Strobe: Fast > Slow (1.52–18.6 Hz)
		244	Random Pulse Strobe Fast > Slow: Slow
		245–255	STROBE Open: Shutter Open

CH	Function	DMX	Description
6	Red		Same as CH 28 in the mode “Single Control: Basic 31ch” (p. 34)
7	Green		Same as CH 29 in the mode “Single Control: Basic 31ch” (p. 34)
8	Blue		Same as CH 30 in the mode “Single Control: Basic 31ch” (p. 34)
9	White		Same as CH 31 in the mode “Single Control: Basic 31ch” (p. 35)
10	Color Macro 1	0	COLOR MACRO: Open
		1–2	White 2700K - CTC
		3–4	White 3200K - CTC
		5–8	White 4200K - CTC
		9–10	White 5600K - CTC
		11–14	White 8000K - CTC (6500–8000 K)
		15	Blue
		16–51	+Green
		52	Cyan
		53–88	-Blue
		89	Green
		90–125	+Red
		126	Yellow
		127–162	-Green
		163	Red
		164–200	+Blue
		201	Magenta
		202–238	-Red
		239	Blue
		240	COLOR EFFECT FADE: Fast
		241–246	COLOR EFFECT FADE: Fast > Slow
		247	COLOR EFFECT FADE: Slow
		248	COLOR EFFECT SNAP: Fast
		249–254	COLOR EFFECT SNAP: Fast > Slow
		255	COLOR EFFECT SNAP: Slow
11	Effects 2 1	0–5	LED BUILT-IN OPEN: Open
		6–15	LED BUILT-IN PATTERN
		16–20	LED Built-In 1 - Macro
		21–25	LED Built-In 2 - Macro
		26–30	LED Built-In 3 - Macro
		31–35	LED Built-In 4 - Macro
		36–40	LED Built-In 5 - Macro
		41–45	LED Built-In 6 - Macro
		46–50	LED Built-In 7 - Macro
		51–55	LED Built-In 8 - Macro

CH	Function	DMX	Description
11	Effects 2 1 (continued)	56–60	LED Built-In 9 - Macro
		61–65	LED Built-In 10 - Macro
		66–70	LED Built-In 11 - Macro
		71–75	LED Built-In 12 - Macro
		76–80	LED Built-In 13 - Macro
		81–85	LED Built-In 14 - Macro
		86–90	LED Built-In 15 - Macro
		91–95	LED Built-In 16 - Macro
		96–100	LED Built-In 17 - Macro
		101–104	LED Built-In 18 - Macro
		105–110	LED Built-In 19 - Macro
		111–115	LED Built-In 20 - Macro
		116–120	LED Built-In 23 - Macro
		121–125	LED Built-In 24 - Macro
		126–130	LED Built-In 25 - Macro
		131–135	LED Built-In 26 - Macro
		136–140	LED Built-In 27 - Macro
		141–145	LED Built-In 28 - Macro
		146–150	LED Built-In 29 - Macro
		151–155	LED Built-In 30 - Macro
		156–160	LED Built-In 31 - Macro
		161–165	LED Built-In 32 - Macro
		166–170	LED Built-In 33 - Macro
		171–175	LED Built-In 34 - Macro
		176–180	LED Built-In 35 - Macro
		181–185	LED Built-In 36 - Macro
		186–190	LED Built-In 37 - Macro
		191–195	LED Built-In 38 - Macro
		196–200	LED Built-In 39 - Macro
		201–205	LED Built-In 40 - Macro
		206–210	LED Built-In 41 - Macro
		211–215	LED Built-In 42 - Macro
		216–255	No Function
12	Effects 2 Speed 1		Same as CH 13 in the mode “Single Control: Basic 31ch” (p. 28)
13	Dimmer 2		Same as CH 23 in the mode “Single Control: Basic 31ch” (p. 31)
14	Shutter 2		Same as CH 25 in the mode “Single Control: Basic 31ch” (p. 32)
15	Color Macro 2	0	COLOR MACRO: Open
		1–2	White 2700K - CTC
		3–4	White 3200K - CTC

CH	Function	DMX	Description
15	Color Macro 2 (continued)	5–8	White 4200K - CTC
		9–10	White 5600K - CTC
		11–12	White 6500K - CTC
		13–14	White 8000K - CTC
		15	Blue
		16–51	+Green
		52	Cyan
		53–88	-Blue
		89	Green
		90–125	+Red
		126	Yellow
		127–162	-Green
		163	Red
		164–200	+Blue
		201	Magenta
		202–238	-Red
		239	Blue
		240	COLOR EFFECT FADE: Fast
		241–246	COLOR EFFECT FADE: Fast > Slow
		247	COLOR EFFECT FADE: Slow
		248	COLOR EFFECT SNAP: Fast
		249–254	COLOR EFFECT SNAP: Fast > Slow
		255	COLOR EFFECT SNAP: Slow
16	Effects 2 2	0–5	LED BUILT-IN: No Function
		6–10	LED Built-In 1 - Macro
		11–15	LED Built-In 2 - Macro
		16–20	LED Built-In 3 - Macro
		21–25	LED Built-In 4 - Macro
		26–30	LED Built-In 5 - Macro
		31–35	LED Built-In 6 - Macro
		36–40	LED Built-In 7 - Macro
		41–45	LED Built-In 8 - Macro
		46–50	LED Built-In 9 - Macro
		51–55	LED Built-In 10 - Macro
		56–60	LED Built-In 11 - Macro
		61–65	LED Built-In 12 - Macro
		66–70	LED Built-In 13 - Macro
		71–75	LED Built-In 14 - Macro
		76–80	LED Built-In 15 - Macro
		81–85	LED Built-In 16 - Macro
		86–90	LED Built-In 17 - Macro

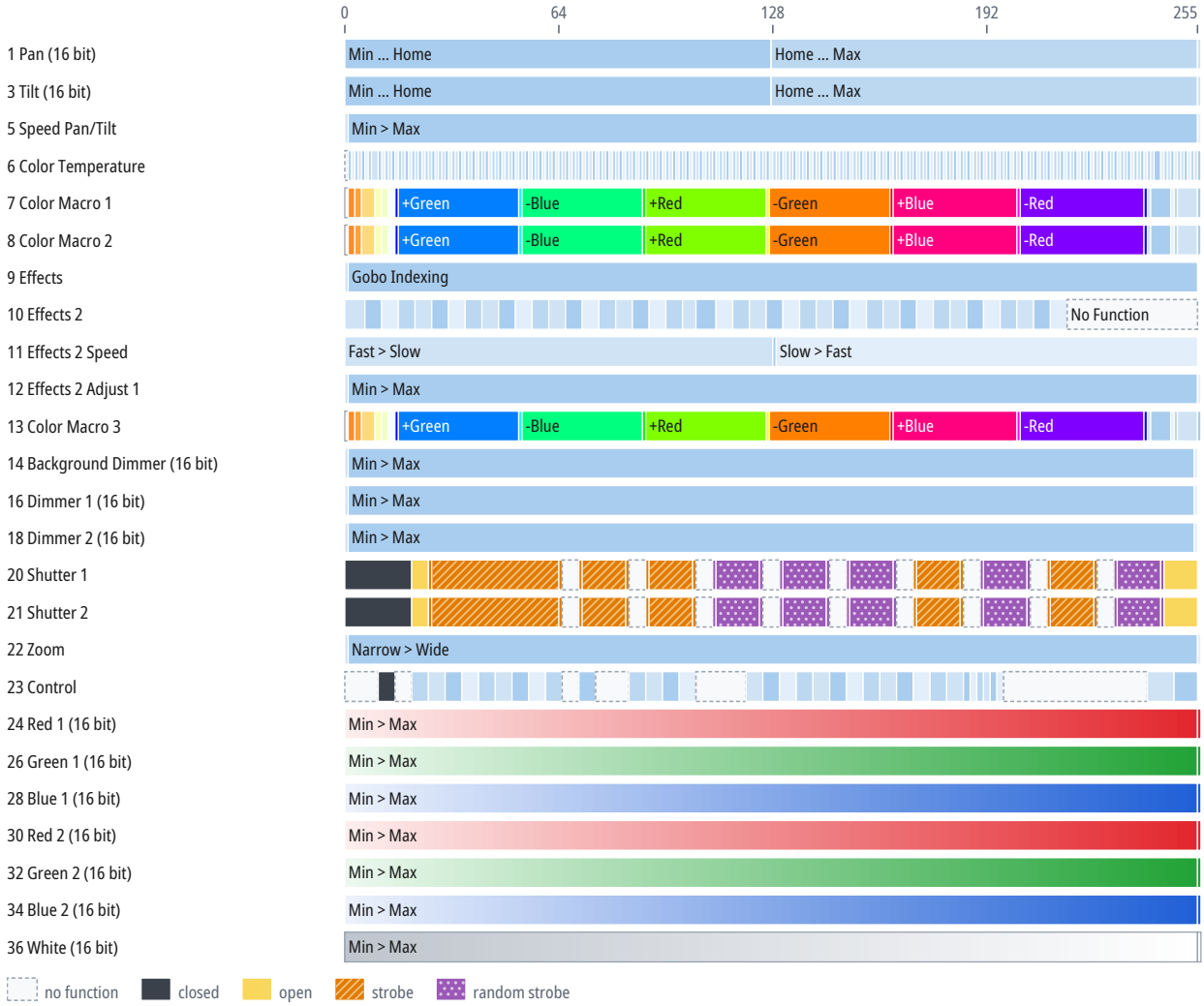
CH	Function	DMX	Description
16	Effects 2 2 (continued)	91–95	LED Built-In 18 - Macro
		96–100	LED Built-In 19 - Macro
		101–104	LED Built-In 20 - Macro
		105–110	LED Built-In 21 - Macro
		111–115	LED Built-In 22 - Macro
		116–120	LED Built-In 23 - Macro
		121–125	LED Built-In 24 - Macro
		126–130	LED Built-In 25 - Macro
		131–135	LED Built-In 26 - Macro
		136–140	LED Built-In 27 - Macro
		141–145	LED Built-In 28 - Macro
		146–150	LED Built-In 29 - Macro
		151–155	LED Built-In 30 - Macro
		156–160	LED Built-In 31 - Macro
		161–165	LED Built-In 32 - Macro
		166–170	LED Built-In 33 - Macro
		171–175	LED Built-In 34 - Macro
		176–180	LED Built-In 35 - Macro
		181–185	LED Built-In 36 - Macro
		186–190	LED Built-In 37 - Macro
		191–195	LED Built-In 38 - Macro
		196–200	LED Built-In 39 - Macro
		201–205	LED Built-In 40 - Macro
		206–210	LED Built-In 41 - Macro
		211–215	LED Built-In 42 - Macro
		216–255	LED BUILT-IN: No Function
17	Effects 2 Speed 2		Same as CH 16 in the mode “Single Control: Basic 31ch” (p. 29)
18	Zoom		Same as CH 26 in the mode “Single Control: Basic 31ch” (p. 33)
19	Control		Same as CH 27 in the mode “Single Control: Basic 31ch” (p. 33)

Mode Single Control: Basic3 37Ch

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

If the device receives DMX in this mode but gives no light, check these channels: CH 20 Shutter 1 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”; CH 21 Shutter 2 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”. The GDTF file gives these values for a console's Highlight function: CH 6 Color Temperature 0, CH 7 Color Macro 1 0, CH 8 Color Macro 2 0, CH 13 Color Macro 3 0, CH 16 Dimmer 1 255, CH 18 Dimmer 2 255, CH 24 Red 1 255, CH 26 Green 1 255, CH 28 Blue 1 255, CH 30 Red 2 255, CH 32 Green 2 255, CH 34 Blue 2 255, CH 36 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Single Control: Basic 31ch” (p. 13)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Single Control: Basic 31ch” (p. 14)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Single Control: Basic 31ch” (p. 14)
6	Color Temperature	0	No Function
		1	19000K - CTC

CH	Function	DMX	Description
6	Color Temperature (continued)	2	18900K - CTC
		3	18900K - CTC ... 18800K - CTC
		4	18800K - CTC
		5	18800K - CTC ... 18700K - CTC
		6	18700K - CTC
		7	18600K - CTC
		8–9	18500K - CTC
		10	18400K - CTC
		11	18400K - CTC ... 18300K - CTC
		12	18300K - CTC
		13	18200K - CTC
		14	18200K - CTC ... 18100K - CTC
		15	18100K - CTC
		16	18000K - CTC
		17	18000K - CTC ... 17900K - CTC
		18	17900K - CTC
		19	17800K - CTC
		20	17800K - CTC ... 17700K - CTC
		21	17700K - CTC
		22	17600K - CTC
		23	17600K - CTC ... 17500K - CTC
		24	17500K - CTC
		25	17500K - CTC ... 17400K - CTC
		26	17400K - CTC
		27	17300K - CTC
		28	17300K - CTC ... 17200K - CTC
		29	17200K - CTC
		30	17100K - CTC
		31	17100K - CTC ... 17000K - CTC
		32	17000K - CTC
		33	16900K - CTC
		34	16900K - CTC ... 16800K - CTC
		35	16800K - CTC
		36	16800K - CTC ... 16700K - CTC
		37	16700K - CTC
		38	16600K - CTC
		39	16600K - CTC ... 16500K - CTC
		40	16500K - CTC
		41	16400K - CTC
		42	16400K - CTC ... 16300K - CTC
		43	16300K - CTC
		44	16200K - CTC

CH	Function	DMX	Description
6	Color Temperature (continued)	45	16200K - CTC ... 16100K - CTC
		46	16100K - CTC
		47	16000K - CTC
		48	16000K - CTC ... 15900K - CTC
		49	15900K - CTC
		50	15900K - CTC ... 15800K - CTC
		51	15800K - CTC
		52	15700K - CTC
		53	15700K - CTC ... 157600K - CTC
		54	157600K - CTC
		55	15500K - CTC
		56	15500K - CTC ... 15400K - CTC
		57	15400K - CTC
		58	15300K - CTC
		59	15300K - CTC ... 15200K - CTC
		60	15200K - CTC
		61	15200K - CTC ... 15100K - CTC
		62	15100K - CTC
		63	15000K - CTC
		64	15000K - CTC ... 14900K - CTC
		65	14900K - CTC
		66	14800K - CTC
		67	14800K - CTC ... 14700K - CTC
		68	14700K - CTC
		69	14600K - CTC
		70	14600K - CTC ... 14500K - CTC
		71	14500K - CTC
		72	14400K - CTC
		73	14400K - CTC ... 14300K - CTC
		74	14300K - CTC
		75	14300K - CTC ... 14200K - CTC
		76	14200K - CTC
		77	14100K - CTC
		78	14100K - CTC ... 14000K - CTC
		79	14000K - CTC
		80	13900K - CTC
		81	13900K - CTC ... 13800K - CTC
		82	13800K - CTC
		83	13700K - CTC
		84	13700K - CTC ... 13600K - CTC
		85	13600K - CTC
		86	13500K - CTC

CH	Function	DMX	Description
6	Color Temperature (continued)	87	13500K - CTC ... 13400K - CTC
		88	13400K - CTC
		89	13400K - CTC ... 13300K - CTC
		90	13300K - CTC
		91	13200K - CTC
		92	13200K - CTC ... 13100K - CTC
		93	13100K - CTC
		94	13000K - CTC
		95	13000K - CTC ... 12900K - CTC
		96	12900K - CTC
		97	12800K - CTC
		98	12800K - CTC ... 12700K - CTC
		99	12700K - CTC
		100	12700K - CTC ... 12600K - CTC
		101	12600K - CTC
		102	12500K - CTC
		103	12500K - CTC ... 12400K - CTC
		104	12400K - CTC
		105	12300K - CTC
		106	12300K - CTC ... 12200K - CTC
		107	12200K - CTC
		108	12100K - CTC
		109	12100K - CTC ... 12000K - CTC
		110	12000K - CTC
		111	12000K - CTC ... 11900K - CTC
		112	11900K - CTC
		113	11800K - CTC
		114	11800K - CTC ... 11700K - CTC
		115	11700K - CTC
		116	11600K - CTC
		117	11600K - CTC ... 11500K - CTC
		118	11500K - CTC
		119	11400K - CTC
		120	11400K - CTC ... 11300K - CTC
		121	11300K - CTC
		122	11200K - CTC
		123	11200K - CTC ... 11100K - CTC
		124	11100K - CTC
		125	11000K - CTC
		126	11000K - CTC ... 10900K - CTC
		127	10900K - CTC
		128	10900K - CTC ... 10800K - CTC

CH	Function	DMX	Description
6	Color Temperature (continued)	129	10800K - CTC
		130	10700K - CTC
		131	10700K - CTC ... 10600K - CTC
		132	10600K - CTC
		133	10500K - CTC
		134	10500K - CTC ... 10400K - CTC
		135	10400K - CTC
		136	10300K - CTC
		137	10300K - CTC ... 10200K - CTC
		138	10200K - CTC
		139	10200K - CTC ... 10100K - CTC
		140	10100K - CTC
		141	10000K - CTC
		142	10000K - CTC ... 9900K - CTC
		143	9900K - CTC
		144	9800K - CTC
		145	9800K - CTC ... 9700K - CTC
		146	9700K - CTC
		147	9600K - CTC
		148	9600K - CTC ... 9500K - CTC
		149	9500K - CTC
		150	9400K - CTC
		151	9400K - CTC ... 9300K - CTC
		152	9300K - CTC
		153	9300K - CTC ... 9200K - CTC
		154	9200K - CTC
		155	9100K - CTC
		156	9100K - CTC ... 9000K - CTC
		157	9000K - CTC
		158	8900K - CTC
		159	8900K - CTC ... 8800K - CTC
		160	8800K - CTC
		161	8700K - CTC
		162	8700K - CTC ... 8600K - CTC
		163	8600K - CTC
		164	8500K - CTC
		165	8500K - CTC ... 8400K - CTC
		166	8400K - CTC
		167	8300K - CTC
		168	8300K - CTC ... 8200K - CTC
		169	8200K - CTC
		170	8200K - CTC ... 8100K - CTC

CH	Function	DMX	Description
6	Color Temperature (continued)	171	8100K - CTC
		172	8000K - CTC
		173	8000K - CTC ... 7900K - CTC
		174	7900K - CTC
		175	7800K - CTC
		176	7800K - CTC ... 7700K - CTC
		177	7700K - CTC
		178	7600K - CTC
		179	7600K - CTC ... 7500K - CTC
		180	7500K - CTC
		181	7500K - CTC ... 7400K - CTC
		182	7400K - CTC
		183	7300K - CTC
		184	7300K - CTC ... 7200K - CTC
		185	7200K - CTC
		186	7100K - CTC
		187	7100K - CTC ... 7000K - CTC
		188	7000K - CTC
		189	6900K - CTC
		190	6900K - CTC ... 6800K - CTC
		191	6800K - CTC
		192	6800K - CTC ... 6700K - CTC
		193	6700K - CTC
		194	6600K - CTC
		195	6600K - CTC ... 6500K - CTC
		196	6500K - CTC
		197	6400K - CTC
		198	6400K - CTC ... 6300K - CTC
		199	6300K - CTC
		200	6200K - CTC
		201	6200K - CTC ... 6100K - CTC
		202	6100K - CTC
		203	6000K - CTC
		204	6000K - CTC ... 5900K - CTC
		205	5900K - CTC
		206	5900K - CTC ... 5800K - CTC
		207	5800K - CTC
		208	5700K - CTC
		209	5700K - CTC ... 5600K - CTC
		210	5600K - CTC
		211	5500K - CTC
		212	5500K - CTC ... 5400K - CTC

CH	Function	DMX	Description
6	Color Temperature (continued)	213	5400K - CTC
		214	5300K - CTC
		215	5300K - CTC ... 5200K - CTC
		216	5200K - CTC
		217	5100K - CTC
		218	5100K - CTC ... 5000K - CTC
		219	5000K - CTC
		220	5000K - CTC ... 4900K - CTC
		221	4900K - CTC
		222	4800K - CTC
		223	4800K - CTC ... 4700K - CTC
		224	4700K - CTC
		225	4600K - CTC
		226	4600K - CTC ... 4500K - CTC
		227	4500K - CTC
		228	4400K - CTC
		229	4400K - CTC ... 4300K - CTC
		230	4300K - CTC
		231	4300K - CTC ... 4200K - CTC
		232	4200K - CTC
		233	4100K - CTC
		234	4100K - CTC ... 4000K - CTC
		235	4000K - CTC
		236	3900K - CTC
		237	3900K - CTC ... 3800K - CTC
		238	3800K - CTC
		239	3700K - CTC
		240	3700K - CTC ... 3600K - CTC
		241	3600K - CTC
		242–243	3500K - CTC
		244	3400K - CTC
		245	3400K - CTC ... 3300K - CTC
		246	3300K - CTC
		247	3200K - CTC
		248	3200K - CTC ... 3100K - CTC
		249	3100K - CTC
		250	3000K - CTC
		251	3000K - CTC ... 2900K - CTC
		252	2900K - CTC
		253	2800K - CTC
		254	2800K - CTC ... 2700K - CTC
		255	2700K - CTC

CH	Function	DMX	Description
7	Color Macro 1		Same as CH 8 in the mode “Single Control: Basic 31ch” (p. 26)
8	Color Macro 2		Same as CH 9 in the mode “Single Control: Standard 143ch” (p. 44)
9	Effects	0	PATTERN OPEN: Open
		1–255	Gobo Indexing
10	Effects 2	0–5	LED BUILT-IN OPEN: Open
		6–10	LED Built-In 1 - Macro
		11–15	LED Built-In 2 - Macro
		16–20	LED Built-In 3 - Macro
		21–25	LED Built-In 4 - Macro
		26–30	LED Built-In 5 - Macro
		31–35	LED Built-In 6 - Macro
		36–40	LED Built-In 7 - Macro
		41–45	LED Built-In 8 - Macro
		46–50	LED Built-In 9 - Macro
		51–55	LED Built-In 10 - Macro
		56–60	LED Built-In 11 - Macro
		61–65	LED Built-In 12 - Macro
		66–70	LED Built-In 13 - Macro
		71–75	LED Built-In 14 - Macro
		76–80	LED Built-In 15 - Macro
		81–85	LED Built-In 16 - Macro
		86–90	LED Built-In 17 - Macro
		91–95	LED Built-In 18 - Macro
		96–100	LED Built-In 19 - Macro
		101–104	LED Built-In 20 - Macro
		105–110	LED Built-In 21 - Macro
		111–115	LED Built-In 22 - Macro
		116–120	LED Built-In 23 - Macro
		121–125	LED Built-In 24 - Macro
		126–130	LED Built-In 25 - Macro
		131–135	LED Built-In 26 - Macro
		136–140	LED Built-In 27 - Macro
		141–145	LED Built-In 28 - Macro
		146–150	LED Built-In 29 - Macro
		151–155	LED Built-In 30 - Macro
		156–160	LED Built-In 31 - Macro
		161–165	LED Built-In 32 - Macro
		166–170	LED Built-In 33 - Macro
		171–175	LED Built-In 34 - Macro
		176–180	LED Built-In 35 - Macro
		181–185	LED Built-In 36 - Macro

CH	Function	DMX	Description
10	Effects 2 (continued)	186–190	LED Built-In 37 - Macro
		191–195	LED Built-In 38 - Macro
		196–200	LED Built-In 39 - Macro
		201–205	LED Built-In 40 - Macro
		206–210	LED Built-In 41 - Macro
		211–215	LED Built-In 42 - Macro
		216–255	No Function
11	Effects 2 Speed		LED BUILT-IN SPEED
		0–127	Fast > Slow (10–0.1 Hz)
		128	Stop
		129–255	Slow > Fast (0.1–10 Hz)
12	Effects 2 Adjust 1		LED BUILT-IN DELAY
		0	Min
		1–254	Min > Max
		255	Max
13	Color Macro 3	0	BACKGROUND COLOR MACRO: Open
		1–2	White 2700K - CTC
		3–4	White 3200K - CTC
		5–8	White 4200K - CTC
		9–10	White 5600K - CTC
		11–12	White 6500K - CTC
		13–14	White 8000K - CTC
		15	Blue
		16–51	+Green
		52	Cyan
		53–88	-Blue
		89	Green
		90–125	+Red
		126	Yellow
		127–162	-Green
		163	Red
		164–200	+Blue
		201	Magenta
		202–238	-Red
		239	Blue
		240	BACKGROUND COLOR EFFECT FADE: Fast
		241–246	BACKGROUND COLOR EFFECT FADE: Fast > Slow
		247	BACKGROUND COLOR EFFECT FADE: Slow
		248	BACKGROUND COLOR EFFECT SNAP: Fast
		249–254	BACKGROUND COLOR EFFECT SNAP: Fast > Slow
		255	BACKGROUND COLOR EFFECT SNAP: Slow
14	Background Dimmer	0	Min

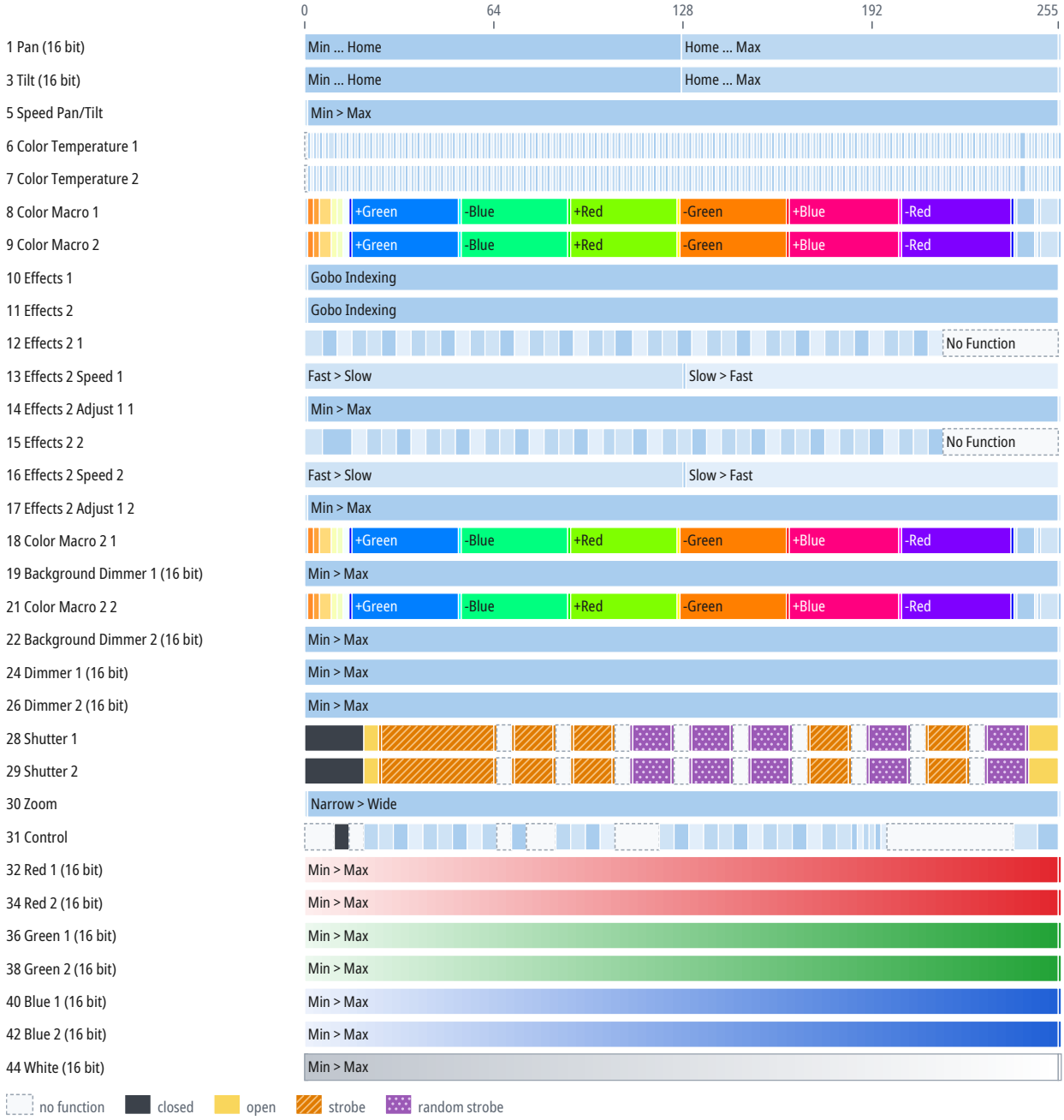
CH	Function	DMX	Description
14	Background Dimmer (continued)	1–254	Min > Max
		255	Max
15	Background Dimmer Fine	0–255	Fine adjustment of CH 14
16	Dimmer 1		Same as CH 22 in the mode “Single Control: Basic 31ch” (p. 31)
17	Dimmer 1 Fine	0–255	Fine adjustment of CH 16
18	Dimmer 2		Same as CH 23 in the mode “Single Control: Basic 31ch” (p. 31)
19	Dimmer 2 Fine	0–255	Fine adjustment of CH 18
20	Shutter 1		Same as CH 24 in the mode “Single Control: Basic 31ch” (p. 31)
21	Shutter 2		Same as CH 25 in the mode “Single Control: Basic 31ch” (p. 32)
22	Zoom		Same as CH 26 in the mode “Single Control: Basic 31ch” (p. 33)
23	Control		Same as CH 27 in the mode “Single Control: Basic 31ch” (p. 33)
24	Red 1		Same as CH 32 in the mode “Single Control: Advanced 263ch” (p. 51)
25	Red 1 Fine	0–255	Fine adjustment of CH 24
26	Green 1		Same as CH 34 in the mode “Single Control: Advanced 263ch” (p. 51)
27	Green 1 Fine	0–255	Fine adjustment of CH 26
28	Blue 1		Same as CH 36 in the mode “Single Control: Advanced 263ch” (p. 51)
29	Blue 1 Fine	0–255	Fine adjustment of CH 28
30	Red 2	0	Min
		0–255	Min > Max
		255	Max
31	Red 2 Fine	0–255	Fine adjustment of CH 30
32	Green 2	0	Min
		0–255	Min > Max
		255	Max
33	Green 2 Fine	0–255	Fine adjustment of CH 32
34	Blue 2	0	Min
		0–255	Min > Max
		255	Max
35	Blue 2 Fine	0–255	Fine adjustment of CH 34
36	White		Same as CH 36 in the mode “Single Control: Basic2 37ch” (p. 62)
37	White Fine	0–255	Fine adjustment of CH 36

Mode Dual Control Mode Movement: Advanced 45ch

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 28 Shutter 1 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”; CH 29 Shutter 2 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”. The GDTF file gives these values for a console's Highlight function: CH 6 Color Temperature 1 0, CH 7 Color Temperature 2 0, CH 8 Color Macro 1 0, CH 9 Color Macro 2 0, CH 18 Color Macro 2 1 0, CH 21 Color Macro 2 2 0, CH 24 Dimmer 1 255, CH 26 Dimmer 2 255, CH 32 Red 1 255, CH 34 Red 2 255, CH 36 Green 1 255, CH 38 Green 2 255, CH 40 Blue 1 255, CH 42 Blue 2 255, CH 44 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Single Control: Basic 31ch” (p. 13)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Single Control: Basic 31ch” (p. 14)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Single Control: Basic 31ch” (p. 14)
6	Color Temperature 1		Same as CH 6 in the mode “Single Control: Standard 143ch” (p. 38)
7	Color Temperature 2		Same as CH 7 in the mode “Single Control: Basic 31ch” (p. 20)
8	Color Macro 1		Same as CH 8 in the mode “Single Control: Basic 31ch” (p. 26)
9	Color Macro 2		Same as CH 9 in the mode “Single Control: Standard 143ch” (p. 44)
10	Effects 1		Same as CH 10 in the mode “Single Control: Basic 31ch” (p. 27)
11	Effects 2		Same as CH 11 in the mode “Single Control: Basic 31ch” (p. 27)
12	Effects 2 1		Same as CH 12 in the mode “Single Control: Basic 31ch” (p. 27)
13	Effects 2 Speed 1		Same as CH 13 in the mode “Single Control: Basic 31ch” (p. 28)
14	Effects 2 Adjust 1 1		Same as CH 14 in the mode “Single Control: Basic 31ch” (p. 28)
15	Effects 2 2		Same as CH 15 in the mode “Single Control: Basic 31ch” (p. 28)
16	Effects 2 Speed 2		Same as CH 16 in the mode “Single Control: Basic 31ch” (p. 29)
17	Effects 2 Adjust 1 2		Same as CH 17 in the mode “Single Control: Basic 31ch” (p. 30)
18	Color Macro 2 1		Same as CH 18 in the mode “Single Control: Basic 31ch” (p. 30)
19	Background Dimmer 1		Same as CH 19 in the mode “Single Control: Advanced 263ch” (p. 50)
20	Background Dimmer 1 Fine	0–255	Fine adjustment of CH 19
21	Color Macro 2 2		Same as CH 20 in the mode “Single Control: Basic 31ch” (p. 30)
22	Background Dimmer 2		Same as CH 22 in the mode “Single Control: Advanced 263ch” (p. 50)
23	Background Dimmer 2 Fine	0–255	Fine adjustment of CH 22
24	Dimmer 1		Same as CH 24 in the mode “Single Control: Advanced 263ch” (p. 50)
25	Dimmer 1 Fine	0–255	Fine adjustment of CH 24
26	Dimmer 2		Same as CH 26 in the mode “Single Control: Advanced 263ch” (p. 51)
27	Dimmer 2 Fine	0–255	Fine adjustment of CH 26
28	Shutter 1		Same as CH 24 in the mode “Single Control: Basic 31ch” (p. 31)

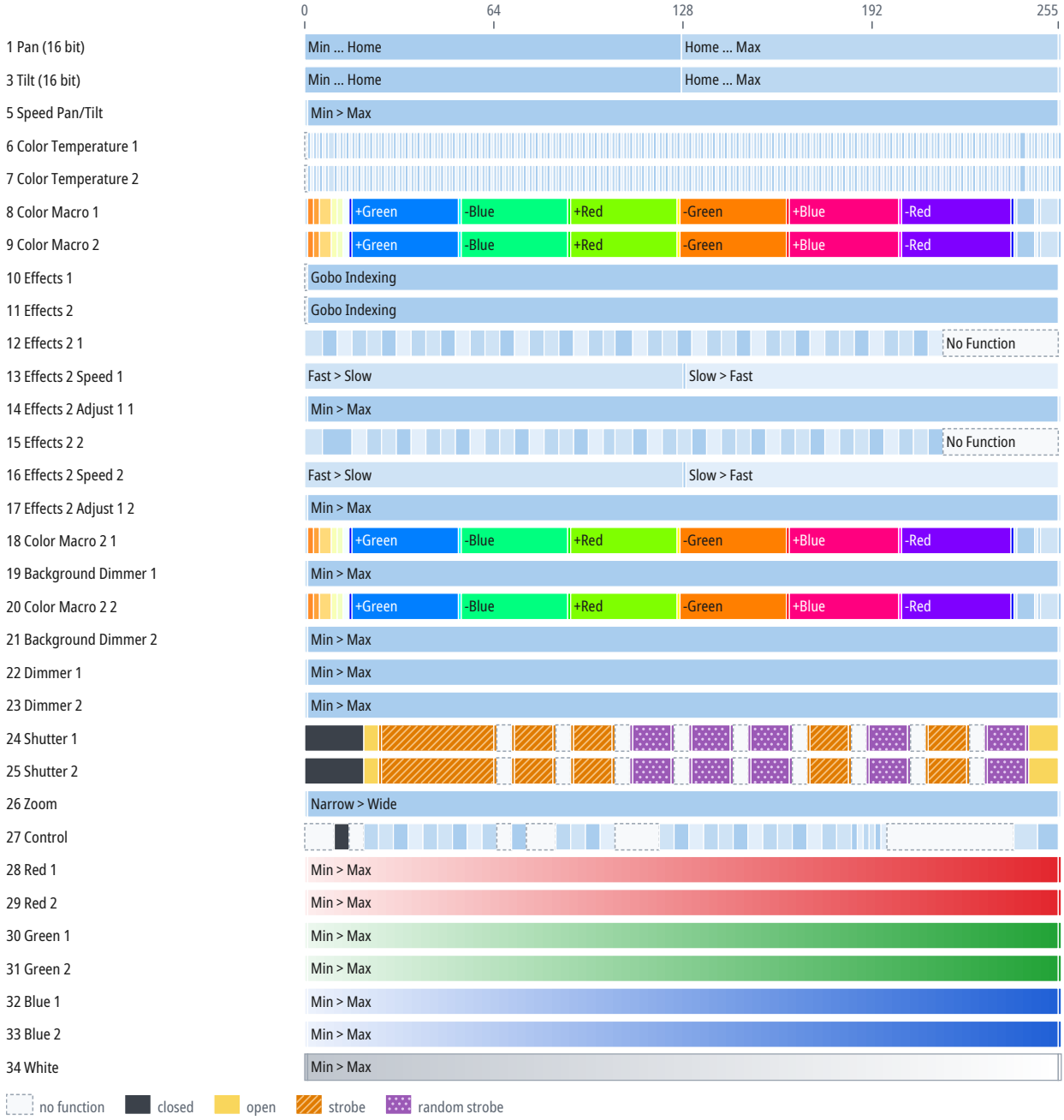
CH	Function	DMX	Description
29	Shutter 2		Same as CH 25 in the mode “Single Control: Basic 31ch” (p. 32)
30	Zoom		Same as CH 26 in the mode “Single Control: Basic 31ch” (p. 33)
31	Control		Same as CH 27 in the mode “Single Control: Basic 31ch” (p. 33)
32	Red 1		Same as CH 32 in the mode “Single Control: Advanced 263ch” (p. 51)
33	Red 1 Fine	0–255	Fine adjustment of CH 32
34	Red 2		Same as CH 30 in the mode “Single Control: Basic3 37Ch” (p. 78)
35	Red 2 Fine	0–255	Fine adjustment of CH 34
36	Green 1		Same as CH 34 in the mode “Single Control: Advanced 263ch” (p. 51)
37	Green 1 Fine	0–255	Fine adjustment of CH 36
38	Green 2		Same as CH 32 in the mode “Single Control: Basic3 37Ch” (p. 78)
39	Green 2 Fine	0–255	Fine adjustment of CH 38
40	Blue 1		Same as CH 36 in the mode “Single Control: Advanced 263ch” (p. 51)
41	Blue 1 Fine	0–255	Fine adjustment of CH 40
42	Blue 2		Same as CH 34 in the mode “Single Control: Basic3 37Ch” (p. 78)
43	Blue 2 Fine	0–255	Fine adjustment of CH 42
44	White		Same as CH 36 in the mode “Single Control: Basic2 37ch” (p. 62)
45	White Fine	0–255	Fine adjustment of CH 44

Mode Dual Control Mode Movement: Standard 34ch

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 24 Shutter 1 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”; CH 25 Shutter 2 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”. The GDTF file gives these values for a console's Highlight function: CH 6 Color Temperature 1 0, CH 7 Color Temperature 2 0, CH 8 Color Macro 1 0, CH 9 Color Macro 2 0, CH 18 Color Macro 2 1 0, CH 20 Color Macro 2 2 0, CH 22 Dimmer 1 255, CH 23 Dimmer 2 255, CH 28 Red 1 255, CH 29 Red 2 255, CH 30 Green 1 255, CH 31 Green 2 255, CH 32 Blue 1 255, CH 33 Blue 2 255, CH 34 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Single Control: Basic 31ch” (p. 13)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Single Control: Basic 31ch” (p. 14)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Single Control: Basic 31ch” (p. 14)
6	Color Temperature 1		Same as CH 6 in the mode “Single Control: Standard 143ch” (p. 38)
7	Color Temperature 2		Same as CH 7 in the mode “Single Control: Basic 31ch” (p. 20)
8	Color Macro 1		Same as CH 8 in the mode “Single Control: Basic 31ch” (p. 26)
9	Color Macro 2		Same as CH 9 in the mode “Single Control: Standard 143ch” (p. 44)
10	Effects 1		Same as CH 10 in the mode “Single Control: Basic 31ch” (p. 27)
11	Effects 2		Same as CH 11 in the mode “Single Control: Basic 31ch” (p. 27)
12	Effects 2 1		Same as CH 12 in the mode “Single Control: Basic 31ch” (p. 27)
13	Effects 2 Speed 1		Same as CH 13 in the mode “Single Control: Basic 31ch” (p. 28)
14	Effects 2 Adjust 1 1		Same as CH 14 in the mode “Single Control: Basic 31ch” (p. 28)
15	Effects 2 2		Same as CH 15 in the mode “Single Control: Basic 31ch” (p. 28)
16	Effects 2 Speed 2		Same as CH 16 in the mode “Single Control: Basic 31ch” (p. 29)
17	Effects 2 Adjust 1 2		Same as CH 17 in the mode “Single Control: Basic 31ch” (p. 30)
18	Color Macro 2 1		Same as CH 18 in the mode “Single Control: Basic 31ch” (p. 30)
19	Background Dimmer 1		Same as CH 19 in the mode “Single Control: Basic 31ch” (p. 30)
20	Color Macro 2 2		Same as CH 20 in the mode “Single Control: Basic 31ch” (p. 30)
21	Background Dimmer 2		Same as CH 21 in the mode “Single Control: Basic 31ch” (p. 31)
22	Dimmer 1		Same as CH 22 in the mode “Single Control: Basic 31ch” (p. 31)
23	Dimmer 2		Same as CH 23 in the mode “Single Control: Basic 31ch” (p. 31)
24	Shutter 1		Same as CH 24 in the mode “Single Control: Basic 31ch” (p. 31)
25	Shutter 2		Same as CH 25 in the mode “Single Control: Basic 31ch” (p. 32)
26	Zoom		Same as CH 26 in the mode “Single Control: Basic 31ch” (p. 33)
27	Control		Same as CH 27 in the mode “Single Control: Basic 31ch” (p. 33)

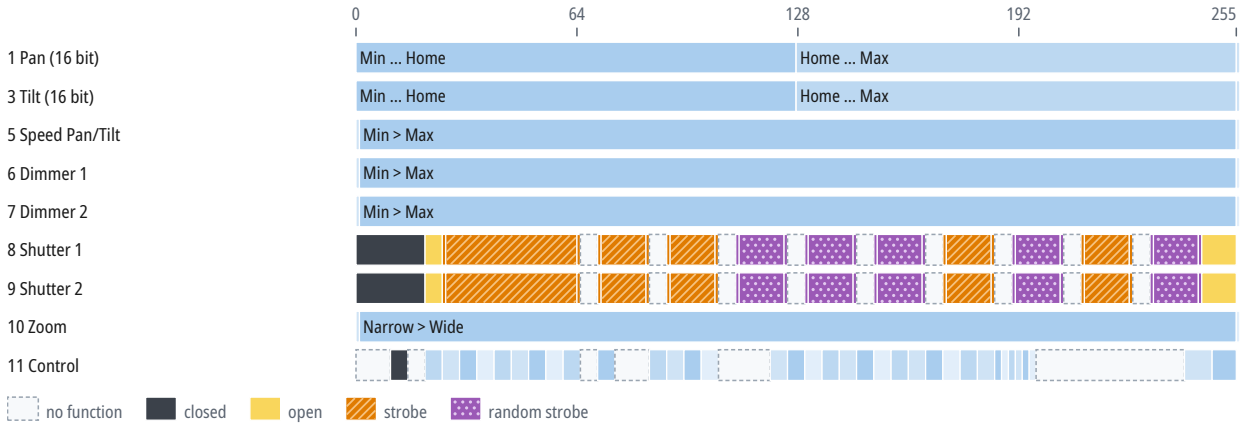
CH	Function	DMX	Description
28	Red 1		Same as CH 28 in the mode “Single Control: Standard 143ch” (p. 45)
29	Red 2	0	Min
		1–254	Min > Max
		255	Max
30	Green 1		Same as CH 29 in the mode “Single Control: Standard 143ch” (p. 45)
31	Green 2	0	Min
		1–254	Min > Max
		255	Max
32	Blue 1		Same as CH 30 in the mode “Single Control: Standard 143ch” (p. 45)
33	Blue 2	0	Min
		1–254	Min > Max
		255	Max
34	White		Same as CH 31 in the mode “Single Control: Basic 31ch” (p. 35)

Mode Dual Control Mode Movement: Basic 11ch

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 8 Shutter 1 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”; CH 9 Shutter 2 at 20–24, 65–69, 85–89, 105–109, 125–129, 145–149, 165–169, 185–189, 205–209, 225–229 or 245–255 “Shutter Open”. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 1 255, CH 7 Dimmer 2 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Single Control: Basic 31ch” (p. 13)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Single Control: Basic 31ch” (p. 14)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Single Control: Basic 31ch” (p. 14)

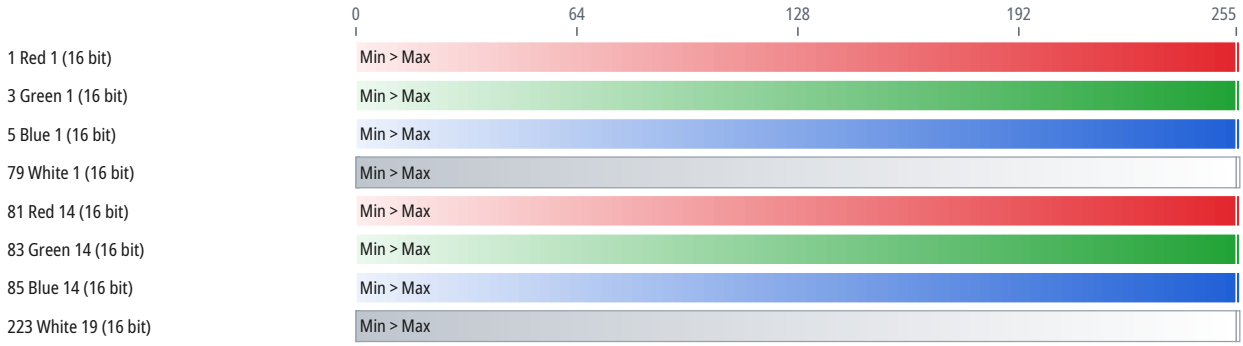
CH	Function	DMX	Description
6	Dimmer 1		Same as CH 22 in the mode “Single Control: Basic 31ch” (p. 31)
7	Dimmer 2		Same as CH 23 in the mode “Single Control: Basic 31ch” (p. 31)
8	Shutter 1		Same as CH 24 in the mode “Single Control: Basic 31ch” (p. 31)
9	Shutter 2		Same as CH 25 in the mode “Single Control: Basic 31ch” (p. 32)
10	Zoom		Same as CH 26 in the mode “Single Control: Basic 31ch” (p. 33)
11	Control		Same as CH 27 in the mode “Single Control: Basic 31ch” (p. 33)

Mode Dual Control Mode Pixels Advanced 224ch

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

The GDTF file gives these values for a console's Highlight function: CH 1 Red 255 (the same in each of the 13 cells), CH 3 Green 255 (the same in each of the 13 cells), CH 5 Blue 255 (the same in each of the 13 cells), CH 79 White 255 (the same in each of the 18 cells), CH 81 Red 255 (the same in each of the 18 cells), CH 83 Green 255 (the same in each of the 18 cells), CH 85 Blue 255 (the same in each of the 18 cells), CH 223 White 19 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Red 1	0	Min
		0–255	Min > Max
		255	Max
2	Red 1 Fine	0–255	Fine adjustment of CH 1
3	Green 1	0	Min
		0–255	Min > Max
		255	Max
4	Green 1 Fine	0–255	Fine adjustment of CH 3
5	Blue 1	0	Min
		0–255	Min > Max
		255	Max
6	Blue 1 Fine	0–255	Fine adjustment of CH 5

CH	Function	DMX	Description
79	White 1	0	Min

CH	Function	DMX	Description
79	White 1 (continued)	0–255	Min > Max
		255	Max
80	White 1 Fine	0–255	Fine adjustment of CH 79
81	Red 14	0	Min
		0–255	Min > Max
		255	Max
82	Red 14 Fine	0–255	Fine adjustment of CH 81
83	Green 14	0	Min
		0–255	Min > Max
		255	Max
84	Green 14 Fine	0–255	Fine adjustment of CH 83
85	Blue 14	0	Min
		0–255	Min > Max
		255	Max
86	Blue 14 Fine	0–255	Fine adjustment of CH 85
223	White 19	0	Min
		0–255	Min > Max
		255	Max
224	White 19 Fine	0–255	Fine adjustment of CH 223

CH 1–78: 13 cells of 6 channels each. Every cell works as cell 1 in the table above (CH 1–6); the table below gives each cell's channel numbers.

Cell	Red	Red Fine	Green	Green Fine	Blue	Blue Fine
1	1	2	3	4	5	6
2	7	8	9	10	11	12
3	13	14	15	16	17	18
4	19	20	21	22	23	24
5	25	26	27	28	29	30
6	31	32	33	34	35	36
7	37	38	39	40	41	42
8	43	44	45	46	47	48
9	49	50	51	52	53	54
10	55	56	57	58	59	60
11	61	62	63	64	65	66
12	67	68	69	70	71	72
13	73	74	75	76	77	78

CH 79–222: 18 cells of 8 channels each. Every cell works as cell 1 in the table above (CH 79–86); the table below gives each cell's channel numbers.

Cell	White	White Fine	Red	Red Fine	Green	Green Fine	Blue	Blue Fine
1	79	80	81	82	83	84	85	86

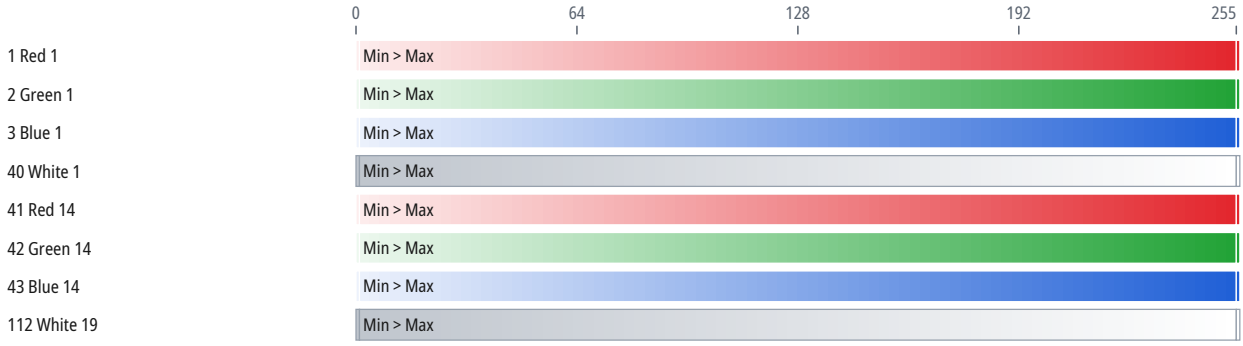
2	87	88	89	90	91	92	93	94
3	95	96	97	98	99	100	101	102

Cell	White	White Fine	Red	Red Fine	Green	Green Fine	Blue	Blue Fine
4	103	104	105	106	107	108	109	110
5	111	112	113	114	115	116	117	118
6	119	120	121	122	123	124	125	126
7	127	128	129	130	131	132	133	134
8	135	136	137	138	139	140	141	142
9	143	144	145	146	147	148	149	150
10	151	152	153	154	155	156	157	158
11	159	160	161	162	163	164	165	166
12	167	168	169	170	171	172	173	174
13	175	176	177	178	179	180	181	182
14	183	184	185	186	187	188	189	190
15	191	192	193	194	195	196	197	198
16	199	200	201	202	203	204	205	206
17	207	208	209	210	211	212	213	214
18	215	216	217	218	219	220	221	222

Mode Dual Control Mode Pixels: Standard 112ch

The GDTF file gives these values for a console's Highlight function: CH 1 Red 255 (the same in each of the 13 cells), CH 2 Green 255 (the same in each of the 13 cells), CH 3 Blue 255 (the same in each of the 13 cells), CH 40 White 255 (the same in each of the 18 cells), CH 41 Red 255 (the same in each of the 18 cells), CH 42 Green 255 (the same in each of the 18 cells), CH 43 Blue 255 (the same in each of the 18 cells), CH 112 White 19 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Red 1	0	Min
		1–254	Min > Max
		255	Max
2	Green 1	0	Min
		1–254	Min > Max
		255	Max
3	Blue 1	0	Min
		1–254	Min > Max
		255	Max

CH	Function	DMX	Description
40	White 1	0	Min
		1–254	Min > Max
		255	Max
41	Red 14	0	Min
		1–254	Min > Max
		255	Max
42	Green 14	0	Min
		1–254	Min > Max
		255	Max
43	Blue 14	0	Min
		1–254	Min > Max
		255	Max
112	White 19	0	Min
		1–254	Min > Max
		255	Max

CH 1–39: 13 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 1–3); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	1	2	3	2	4	5	6	3	7	8	9
4	10	11	12	5	13	14	15	6	16	17	18
7	19	20	21	8	22	23	24	9	25	26	27
10	28	29	30	11	31	32	33	12	34	35	36
13	37	38	39								

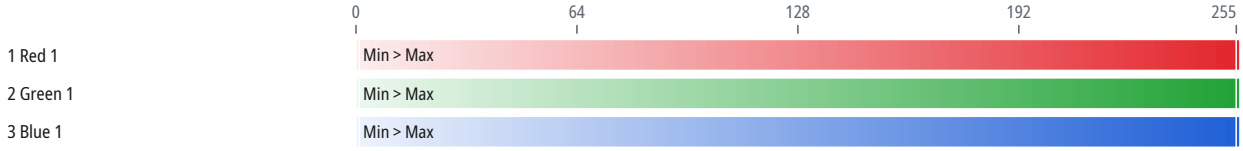
CH 40–111: 18 cells of 4 channels each. Every cell works as cell 1 in the table above (CH 40–43); the table below gives each cell's channel numbers.

Cell	White	Red	Green	Blue	Cell	White	Red	Green	Blue
1	40	41	42	43	2	44	45	46	47
3	48	49	50	51	4	52	53	54	55
5	56	57	58	59	6	60	61	62	63
7	64	65	66	67	8	68	69	70	71
9	72	73	74	75	10	76	77	78	79
11	80	81	82	83	12	84	85	86	87
13	88	89	90	91	14	92	93	94	95
15	96	97	98	99	16	100	101	102	103
17	104	105	106	107	18	108	109	110	111

Mode Dual Control Mode Pixels: Basic 93ch

The GDTF file gives these values for a console's Highlight function: CH 1 Red 255 (the same in each of the 31 cells), CH 2 Green 255 (the same in each of the 31 cells), CH 3 Blue 255 (the same in each of the 31 cells).

Channel functions at a glance



CH	Function	DMX	Description
1	Red 1	0	Min
		1–254	Min > Max
		255	Max
2	Green 1	0	Min
		1–254	Min > Max
		255	Max
3	Blue 1	0	Min
		1–254	Min > Max
		255	Max

CH 1–93: 31 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 1–3); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	1	2	3	2	4	5	6	3	7	8	9
4	10	11	12	5	13	14	15	6	16	17	18
7	19	20	21	8	22	23	24	9	25	26	27
10	28	29	30	11	31	32	33	12	34	35	36
13	37	38	39	14	40	41	42	15	43	44	45
16	46	47	48	17	49	50	51	18	52	53	54
19	55	56	57	20	58	59	60	21	61	62	63
22	64	65	66	23	67	68	69	24	70	71	72
25	73	74	75	26	76	77	78	27	79	80	81
28	82	83	84	29	85	86	87	30	88	89	90
31	91	92	93								

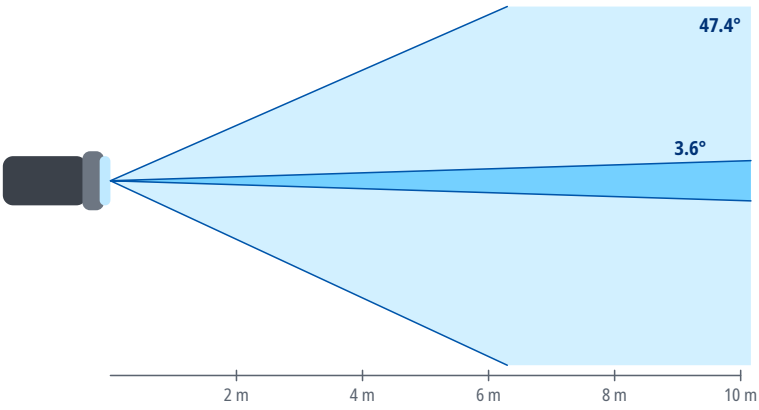
10 Technical specifications

Parameter	Value
Light	
Light source	LED
Optics	
Zoom	3.6–47.4°
Movement	
Pan	540°
Tilt	260°
Control	
RDM	yes (manufacturer ID 0x21A4, device model ID 0x0761)
Dimensions and construction	
Weight	23.8 kg
Operating environment	
Ingress protection	IP65
Meaning of the IP code (IEC 60529)	Dust-tight; protected against water jets
Operating temperature	-20 to 45 °C

Speeds and ranges

Parameter	Value
Color temperature range	2700–19000 K
Strobe frequency	0.1–20 Hz

Spot diameter



Distance	Ø 3.6°	Ø 47.4°
2 m	0.13 m	1.8 m
4 m	0.25 m	3.5 m
6 m	0.38 m	5.3 m
8 m	0.5 m	7 m
10 m	0.63 m	8.8 m
15 m	0.94 m	13.2 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.