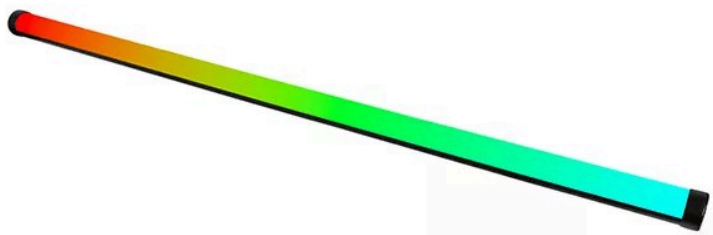
DMX REFERENCE

BaTube

AVTech BaTube

AVTECH



Manufacturer	AVTECH
GDTF file	AVTECH_BaTube_170030.gdtf
GDTF revision	BaTube v100 · 2026-11-19
Generated	2026-11-23

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1 About this manual

This document describes the AVTech BaTube by AVTECH. It was compiled from the GDTF file AVTECH_BaTube_170030.gdtf from the GDTF-Share library.

File revision: “BaTube v100”.

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 AVTECH; 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	1.4 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
5 Ch CTO	5	102	1, 6, 11, 16, ...
3 Ch HSV	3	170	1, 4, 7, 10, ...
5 CH RGBMA	5	102	1, 6, 11, 16, ...
10 Ch -RGBMA- 2 Pixel	10	51	1, 11, 21, 31, ...
12 Ch	12	42	1, 13, 25, 37, ...
20 Ch -RGBMA- 4 Pixel	20	25	1, 21, 41, 61, ...
40 Ch -RGBMA- 8 Pixel	40	12	1, 41, 81, 121, ...
85 Ch	85	6	1, 86, 171, 256, ...
80 Ch -RGBMA- 16 Pixel	80	6	1, 81, 161, 241, ...



Read the manual before use



Do not stare into the light



Indoor use only

3 Safety instructions



Read the manual before use



Do not stare into the light



Indoor use only

⚠ WARNING

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

⚠ WARNING

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

⚠ CAUTION

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

⚠ CAUTION

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

4 Installation

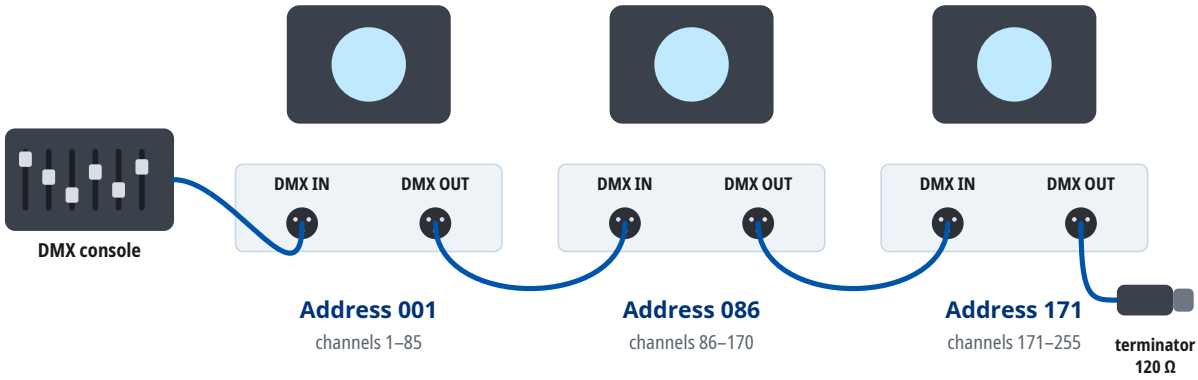
⚠ **WARNING**

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 1.35 kg.
- Use suitable mounting hardware (for example truss clamps) and tighten all screw connections properly.
- Always secure the suspended device against falling with a safety cable of adequate load capacity, routed through a fixed point of the device and around the supporting structure.
- During installation and removal, keep people out of the area below the work position.
- Regularly inspect the fixings and the safety cable for damage, corrosion and loosening.

5 Connections

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

DMX line



Mode 85 Ch: every unit occupies 85 channels from its address. At most 32 units on one line; for more units or longer runs use a DMX splitter. A 120 Ω terminator closes the last DMX OUT.

6 Operation

Setting the DMX address

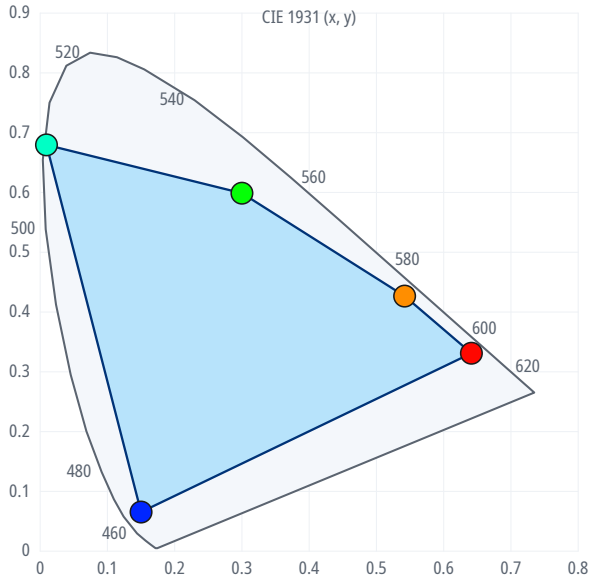
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “85 Ch”: 85.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in the DMX mode “85 Ch”, you can use, for example, the start addresses 1, 86, 171, 256.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

7 Functions at a glance

Functions in each DMX mode

	5 Ch CTO 5 channels	3 Ch HSV 3 channels	5 CH RGBMA 5 channels	10 Ch -RGBMA- 2 Pixel 10 channels	12 Ch 12 channels	20 Ch -RGBMA- 4 Pixel 20 channels	40 Ch -RGBMA- 8 Pixel 40 channels	85 Ch 85 channels
Dimmer	1			✓	1	✓	✓	1
Shutter / strobe					8			83
Color mixing			1–3	1–3, 6–8	3–5	12 channels (1–18)	24 channels (1–38)	48 channels (3–80)
Color temperature	3				10			
Pixel control						✓	8 cells	9 cells

LED colors and the colors they mix

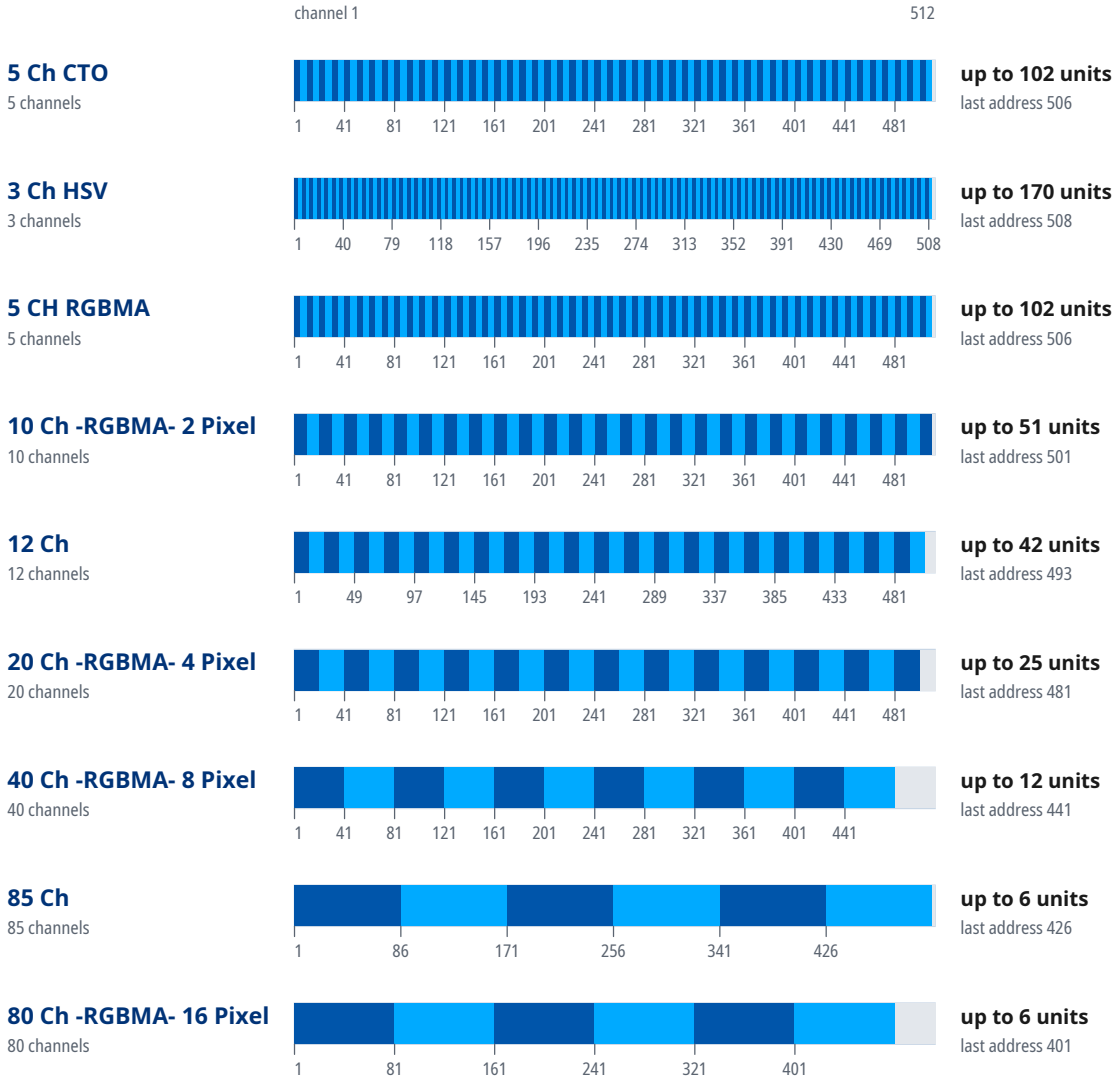


LED	x	y
Red	0.641	0.331
Green	0.300	0.599
Blue	0.150	0.065
Mint	0.009	0.680
Amber	0.542	0.427

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

8 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “85 Ch”

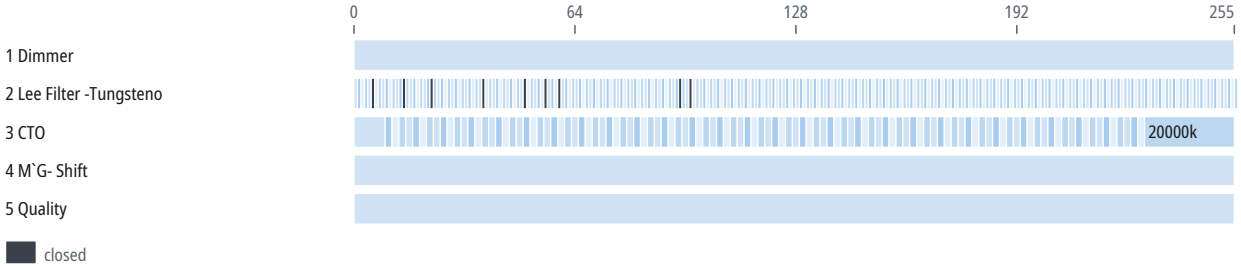
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	426	11	U2 · 341	16	U3 · 256
2	86	7	U2 · 1	12	U2 · 426	17	U3 · 341
3	171	8	U2 · 86	13	U3 · 1	18	U3 · 426
4	256	9	U2 · 171	14	U3 · 86	19	U4 · 1
5	341	10	U2 · 256	15	U3 · 171	20	U4 · 86

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

Mode 5 Ch CTO

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	
2	Lee Filter -Tungsteno	0	Lee Filter -Tungsteno 1
		1	Rose Pink
		2	Lavender _ Tint
		3	Medium Bastard Amber
		4	Pale Yellow _
		5	Dark Salmon
		6	Pale Amber _ _ Gold
		7	Medium Yellow
		8	Straw _ Tint
		9	Deep_ Straw
		10	Surprise _ Peach
		11	Fire
		12	Medium _ Amber
		13	Gold _ Amber
		14	Dark _ Amber
		15	Scarlet
		16	Sunset Red
		17	Bright Red
		18	Medium _ Red
		19	Plasa Red
		20	Light Pink
		21	Medium Pink
		22	Dark _ Magenta
		23	Rose _ Purple
		24	Medium _ Purple
		25	Light Lavender
		26	Paler Lavender
		27	Lavender
		28	Mist Blue

CH	Function	DMX	Description
2	Lee Filter -Tungsteno (continued)	29	Pale _ Blue
		30	Sky_ Blue
		31	Tokyo Blue
		32	Evening_ Blue
		33	Just Blue
		34	Deeper Blue
		35	Lime Green
		36	Moss Green
		37	Dark Yellow Green
		38	Spring_ Yellow
		39	Yellow
		40	Light Amber
		41	Straw
		42	Deep_ Amber
		43	Orange
		44	Primary_ Red
		45	Light Rose
		46	English Rose
		47	Light Salmon
		48	Middle Rose
		49	Dark Pink
		50	Magenta
		51	Peacock Blue
		52	Medium BlueGreen
		53	Steel Blue
		54	Light Blue
		55	Dark Blue
		56	Deep_ Blue
		57	LEE Green
		58	Fern Green
		59	Dark Green
		60	Mauve
		61	Smokey_ Pink
		62	Bright Pink
		63	Clear
		64	Marine Blue
		65	Medium Blue
		66	Golden _ Amber
		67	Deep_ Golden _ Amber
		68	Pale _ Lavender
		69	Special Lavender
		70	Pale _ Green

CH	Function	DMX	Description
2	Lee Filter -Tungsteno (continued)	71	Primary_ Green
		72	Summer Blue
		73	Bright Blue
		74	Pale Violet
		75	Pale _ Navy_ Blue
		76	No Colour Blue
		77	Apricot
		78	Bright Rose
		79	Gold Tint
		80	Pale Gold
		81	Pale Salmon
		82	Pale Rose
		83	Chocolate
		84	Pink
		85	Deep_ Orange
		86	No Colour Straw
		87	Slate _ Blue
		88	Bastard Amber
		89	Flame _ Red
		90	Daylight _ Blue
		91	Lilac _ Tint
		92	Deep_ Lavender
		93	Lagoon Blue
		94	Dark Steel Blue
		95	Loving_ Amber
		96	Chrome _ Orange
		97	Dark Lavender
		98	Congo Blue
		99	Light Red
		100	Moonlight Blue
		101	Flesh Pink
		102	Surprise Pink
		103	Zenith Blue
		104	True Blue
		105	Alice Blue
		106	Palace Blue
		107	Regal Blue
		108	Double C Blue
		109	Full C Blue
		110	Half C Blue
		111	Quarter Blue
		112	Full C _ _ Orange

CH	Function	DMX	Description
2	Lee Filter -Tungsteno (continued)	113	Half C _ _ Orange
		114	Quarter C _ _ Orange
		115	Full C _ _ Orange 3 _ _ ND
		116	Full C _ _ Orange 6 _ _ ND
		117	L C Yellow _ _ _ Y1
		118	White Flame Green
		119	Eighth C Blue
		120	LEE Fluorescent Green
		121	Eighth C _ _ Orange
		122	Super Correcion L C T Yellow
		123	Super Correcion W F Green
		124	H M _ I _ to _ _ Tungsten
		125	C I _ D _ to _ _ Tungsten
		126	C S _ I _ to _ _ Tungsten
		127	LEE Fluorescent 5700 Kelvin
		128	LEE Fluorescent 4300 Kelvin
		129	LEE Fluorescent 3600 Kelvin
		130	LEE Plus Green
		131	Half Plus Green
		132	Quarter Plus _ _ Green
		133	LEE Minus Green
		134	Half Minus _ _ Green
		135	Quarter Minus _ _ Green
		136	Eighth Plus Green
		137	Eighth Minus Green
		138	Three Quarter C Blue
		139	One and a Half C Blue
		140	Three Quarter C _ _ _ Orange
		141	One and a Half C _ _ _ _ _ Orange
		142	Double C
		143	Soft Green
		144	Jade
		145	Forest _ Green
		146	Follies Pink
		147	Special Rose Pink
		148	Special Medium Lavender
		149	Fuchsia _ Pink
		150	Glacier Blue
		151	Lighter Blue
		152	Special Steel Blue
		153	Special Medium Blue
		154	Cornflower

CH	Function	DMX	Description
2	Lee Filter -Tungsteno (continued)	155	Full C _ _ Straw
		156	Half C Straw
		157	Quarter C _ _ Straw
		158	Eighth C _ _ Straw
		159	Double New Colour Blue
		160	New Colour Blue Robertson Blue
		161	Half New Colour Blue
		162	Quarter New Colour Blue
		163	Waterfront Green
		164	Sally_ Green
		165	Marlene
		166	Madge
		167	Midnight _ Maya
		168	Bacon Brown
		169	Amber _ Delight
		170	Ice and a Slice
		171	Double GT
		172	Argent Blue
		173	ALD Gold
		174	Arctic White
		175	Silver
		176	Platinum
		177	Moonlight White
		178	Full C
		179	Half Mustard Yellow
		180	Quarter Mustard Yellow
		181	Industry_ Sodium
		182	HI Sodium
		183	Urban Sodium
		184	LO Sodium
		185	Perfect Lavender
		186	Provence
		187	Special Pale Lavender
		188	Cold Lavender
		189	Lily
		190	King_ Fals _ Lavender
		191	Ultimate Violet
		192	Cool Lavender
		193	Electric Lilac
		194	Spir Special _ _ Blue
		195	Cold _ Blue
		196	Bedford Blue

CH	Function	DMX	Description
2	Lee Filter -Tungsteno (continued)	197	J Winter Blue
		198	Elysian Blue
		199	Cabana Blue
		200	Mikkel Blue
		201	Colour Wash Blue
		202	Berry_ Blue
		203	Bray_ Blue
		204	Virgin Blue
		205	Ocean Blue
		206	Old Steel Blue
		207	QFD _ Blue
		208	Steel _ Green
		209	Scuba _ Blue
		210	Liberty_ Green
		211	Dirty_ Ice
		212	Damp_ Squib
		213	Velvet Green
		214	Twickenham Green
		215	JAS Green
		216	Aurora Borealis Green
		217	Mustard Yellow
		218	Bram Brown
		219	Dirty_ White
		220	Brown
		221	Easy_ White
		222	Seedy_ Pink
		223	Wheat
		224	Sun Colour Straw
		225	LEE Yellow
		226	Oklahoma Yellow
		227	Egg_ Yolk _ Yellow
		228	Burnt Yellow
		229	Cardbox Amber
		230	Nectarine
		231	Rust
		232	Millennium Gold
		233	Bastard Pink
		234	AS Golden Amber
		235	Terry_ Red
		236	Marius Red
		237	Blood Red
		238	Moroccan Pink

CH	Function	DMX	Description
2	Lee Filter -Tungsteno (continued)	239	Vanity_ Fair
		240	Pretty_ n _ Pink
		241	Magical _ Magenta
		242	Deep_ Purple
		243	Chrysalis Pink
		244	Special KH Lavender
		245	Half C O _ _ _ __ Acrylic _ Panel
		246	Full C O 0 3 ND Acrylic Panel
		247	Full C O 0 6 ND _ _ _ _ _ _ Acrylic _ Panel
		248	0 3 ND Acrylic Panel
		249	Cosmetic Peach
		250	Cosmetic Silver Rose
		251	Cosmetic _ Rouge
		252	Cosmetic _ Highlight
		253	Cosmetic Silver Moss
		254	Cosmetic _ Aqua _ Blue
		255	Lily_ Frost
3	CTO	0–8	1750k
		9–10	1800k
		11–12	1850k
		13–14	1900k
		15–16	1950k
		17–18	2000k
		19–20	2050k
		21–22	2100k
		23–24	2150k
		25–26	2200k
		27–28	2250k
		29–30	2300k
		31–32	2350k
		33–34	2400k
		35–36	2450k
		37–38	2500k
		39–40	2550k
		41–42	2600k
		43–44	2650k
		45–46	2700k
		47–48	2750k
		49–50	2800k
		51–52	2850k
		53–54	2900k
		55–56	2950k

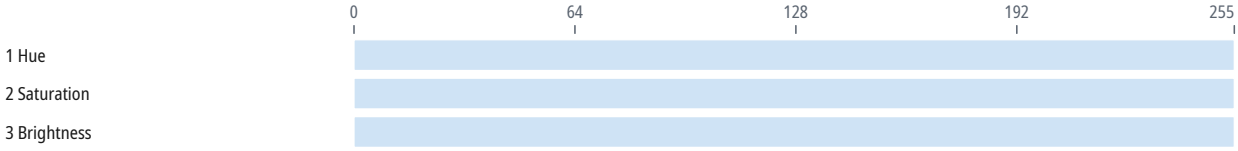
CH	Function	DMX	Description
3	CTO (continued)	57–58	3000k
		59–60	3050k
		61–62	3100k
		63–64	3150k
		65–66	3200k
		67–68	3250k
		69–70	3300k
		71–72	3350k
		73–74	3400k
		75–76	3450k
		77–78	3500k
		79–80	3550k
		81–82	3600k
		83–84	3650k
		85–86	3700k
		87–88	3750k
		89–90	3800k
		91–92	3850k
		93–94	3900k
		95–96	3950k
		97–98	4000k
		99–100	4050k
		101–102	4100k
		103–104	4150k
		105–106	4200k
		107–108	4250k
		109–110	4300k
		111–112	4350k
		113–114	4400k
		115–116	4450k
		117–118	4500k
		119–120	4550k
		121–122	4600k
		123–124	4650k
		125–126	4700k
		127–128	4750k
		129–130	4800k
		131–132	4850k
		133–134	4900k
		135–136	4950k
		137–138	5000k
		139–140	5050k

CH	Function	DMX	Description
3	CTO (continued)	141–142	5100k
		143–144	5150k
		145–146	5200k
		147–148	5250k
		149–150	5300k
		151–152	5350k
		153–154	5400k
		155–156	5450k
		157–158	5500k
		159–160	5550k
		161–162	5600k
		163–164	5650k
		165–166	5700k
		167–168	5750k
		169–170	5800k
		171–172	5850k
		173–174	5900k
		175–176	5950k
		177–178	6000k
		179–180	6250k
		181–182	6500k
		183–184	6750k
		185–186	7000k
		187–188	7250k
		189–190	7500k
		191–192	7750k
		193–194	8000k
		195–196	8250k
		197–198	8500k
		199–200	8750k
		201–202	9000k
		203–204	9250k
		205–206	9500k
		207–208	9750k
		209–210	10000k
		211–212	11000k
		213–214	12000k
		215–216	13000k
		217–218	14000k
		219–220	15000k
		221–222	16000k
		223–224	17000k

CH	Function	DMX	Description
3	CTO (continued)	225–226	18000k
		227–228	19000k
		229–255	20000k
4	M`G- Shift	0–255	
5	Quality	0–255	

Mode 3 Ch HSV

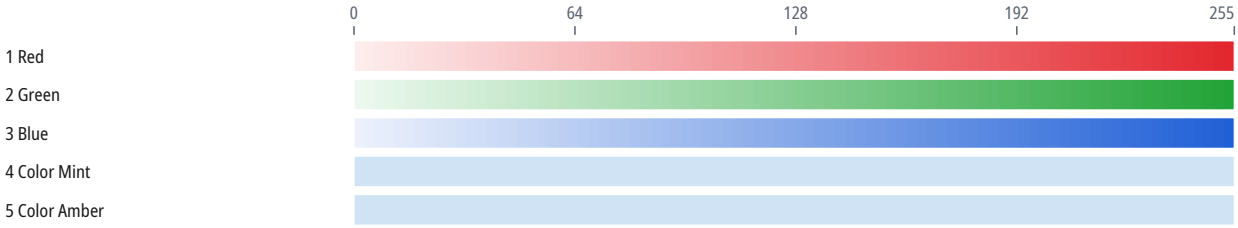
Channel functions at a glance



CH	Function	DMX	Description
1	Hue	0–255	
2	Saturation	0–255	
3	Brightness	0–255	

Mode 5 CH RGBMA

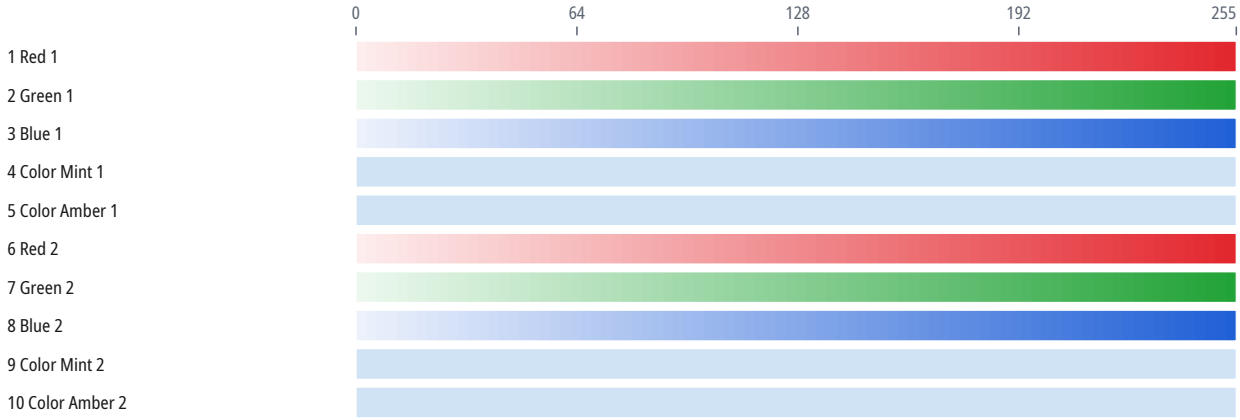
Channel functions at a glance



CH	Function	DMX	Description
1	Red	0–255	
2	Green	0–255	
3	Blue	0–255	
4	Color Mint	0–255	
5	Color Amber	0–255	

Mode 10 Ch -RGBMA- 2 Pixel

Channel functions at a glance

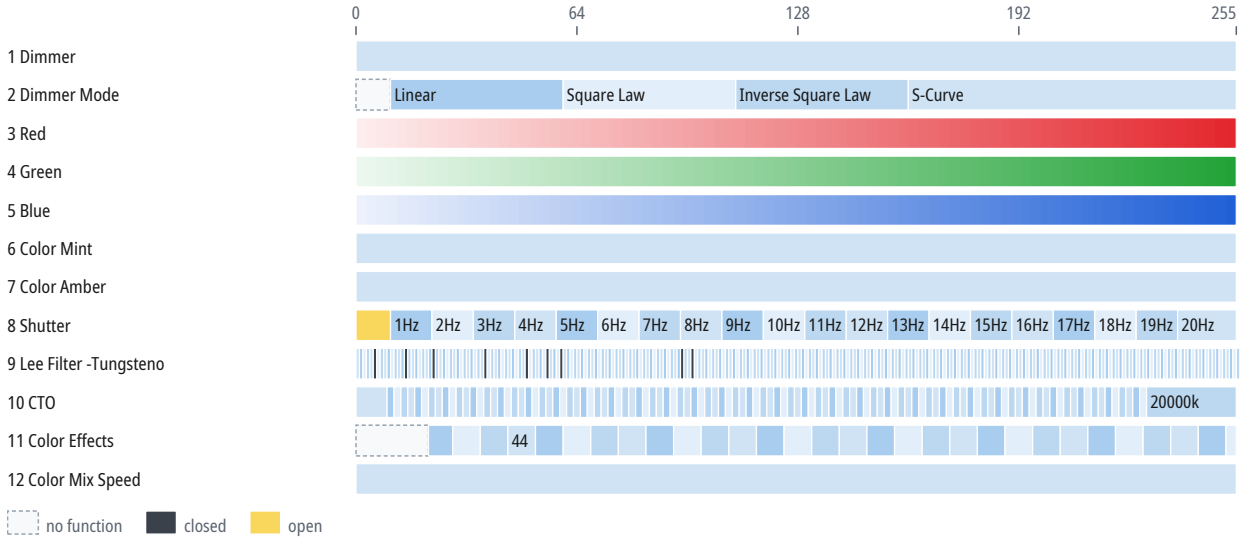


CH	Function	DMX	Description
1	Red 1	0–255	
2	Green 1	0–255	
3	Blue 1	0–255	
4	Color Mint 1	0–255	
5	Color Amber 1	0–255	
6	Red 2	0–255	
7	Green 2	0–255	
8	Blue 2	0–255	
9	Color Mint 2	0–255	
10	Color Amber 2	0–255	

Mode 12 Ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Dimmer Mode above 9; CH 8 Shutter at 0–9 “No Function”.

Channel functions at a glance



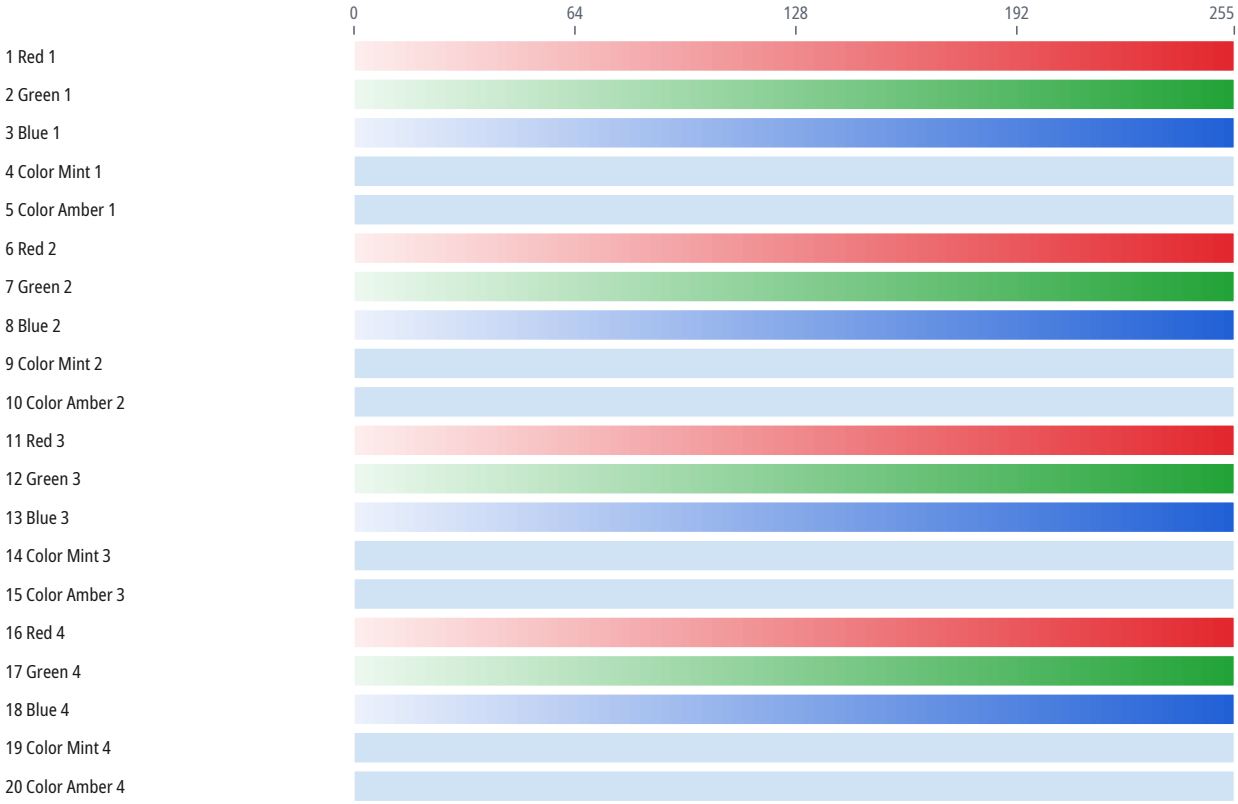
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Mode	0–9	No Function
		10–59	Linear
		60–109	Square Law
		110–159	Inverse Square Law
		160–255	S-Curve
3	Red	0–255	
4	Green	0–255	
5	Blue	0–255	
6	Color Mint	0–255	
7	Color Amber	0–255	
8	Shutter	0–9	No Function
		10–21	1Hz
		22–33	2Hz
		34–45	3Hz
		46–57	4Hz
		58–69	5Hz
		70–81	6Hz
		82–93	7Hz
		94–105	8Hz
		106–117	9Hz
		118–129	10Hz
		130–141	11Hz

CH	Function	DMX	Description
8	Shutter (continued)	142–153	12Hz
		154–165	13Hz
		166–177	14Hz
		178–189	15Hz
		190–201	16Hz
		202–213	17Hz
		214–225	18Hz
		226–237	19Hz
		238–255	20Hz
9	Lee Filter -Tungsteno		Same as CH 2 in the mode “5 Ch CTO” (p. 9)
10	CTO		Same as CH 3 in the mode “5 Ch CTO” (p. 15)
11	Color Effects	0–20	No Function
		21–27	Fx 1
		28–35	Fx 2
		36–43	Fx 3
		44–51	44
		52–59	Fx 5
		60–67	Fx 6
		68–75	Fx 7
		76–83	Fx 8
		84–91	Fx 9
		92–99	Fx 10
		100–107	Fx 11
		108–115	Fx 12
		116–123	Fx 13
		124–131	Fx 14
		132–139	Fx 15
		140–147	Fx 16
		148–155	Fx 17
		156–163	Fx 18
		164–171	Fx 19
		172–179	Fx 20
		180–187	Fx 21
		188–195	Fx 22
		196–203	Fx 23
		204–211	Fx 24
		212–219	Fx 25
		220–227	Fx 26
		228–235	Fx 27
		236–243	Fx 28

CH	Function	DMX	Description
11	Color Effects (continued)	244–251	Fx 29
		252–255	Fx 30
12	Color Mix Speed	0–255	

Mode 20 Ch -RGBMA- 4 Pixel

Channel functions at a glance

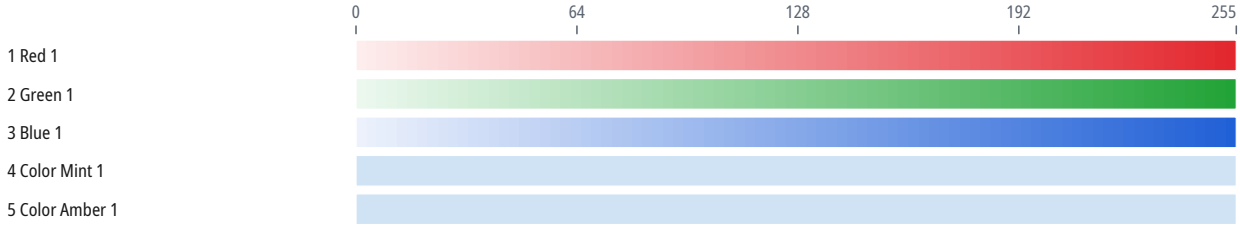


CH	Function	DMX	Description
1	Red 1	0–255	
2	Green 1	0–255	
3	Blue 1	0–255	
4	Color Mint 1	0–255	
5	Color Amber 1	0–255	
6	Red 2	0–255	
7	Green 2	0–255	
8	Blue 2	0–255	
9	Color Mint 2	0–255	
10	Color Amber 2	0–255	
11	Red 3	0–255	
12	Green 3	0–255	
13	Blue 3	0–255	
14	Color Mint 3	0–255	

CH	Function	DMX	Description
15	Color Amber 3	0–255	
16	Red 4	0–255	
17	Green 4	0–255	
18	Blue 4	0–255	
19	Color Mint 4	0–255	
20	Color Amber 4	0–255	

Mode 40 Ch -RGBMA- 8 Pixel

Channel functions at a glance



CH	Function	DMX	Description
1	Red 1	0–255	
2	Green 1	0–255	
3	Blue 1	0–255	
4	Color Mint 1	0–255	
5	Color Amber 1	0–255	

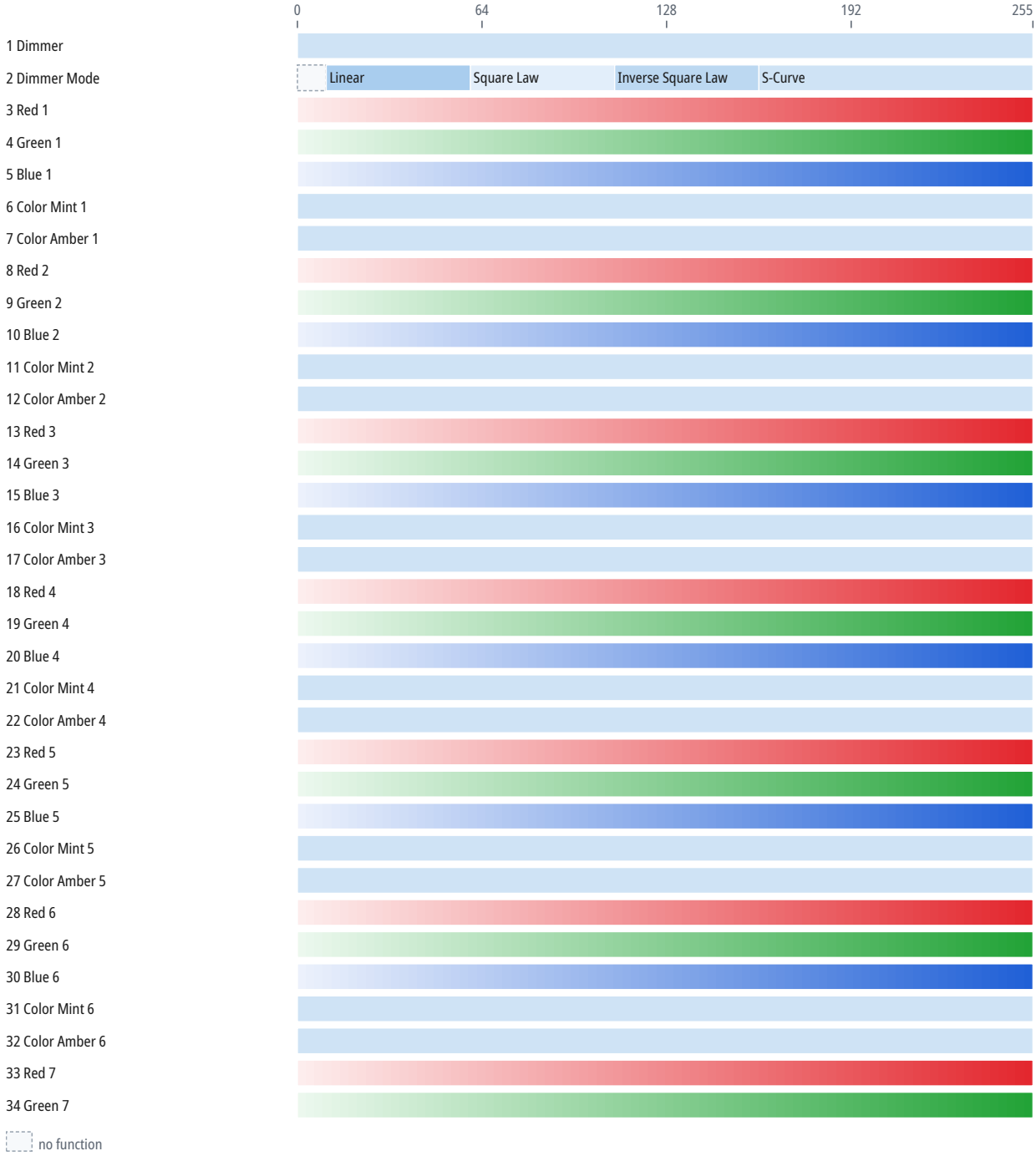
CH 1–40: 8 cells of 5 channels each. Every cell works as cell 1 in the table above (CH 1–5); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Color Mint	Color Amber	Cell	Red	Green	Blue	Color Mint	Color Amber
1	1	2	3	4	5	2	6	7	8	9	10
3	11	12	13	14	15	4	16	17	18	19	20
5	21	22	23	24	25	6	26	27	28	29	30
7	31	32	33	34	35	8	36	37	38	39	40

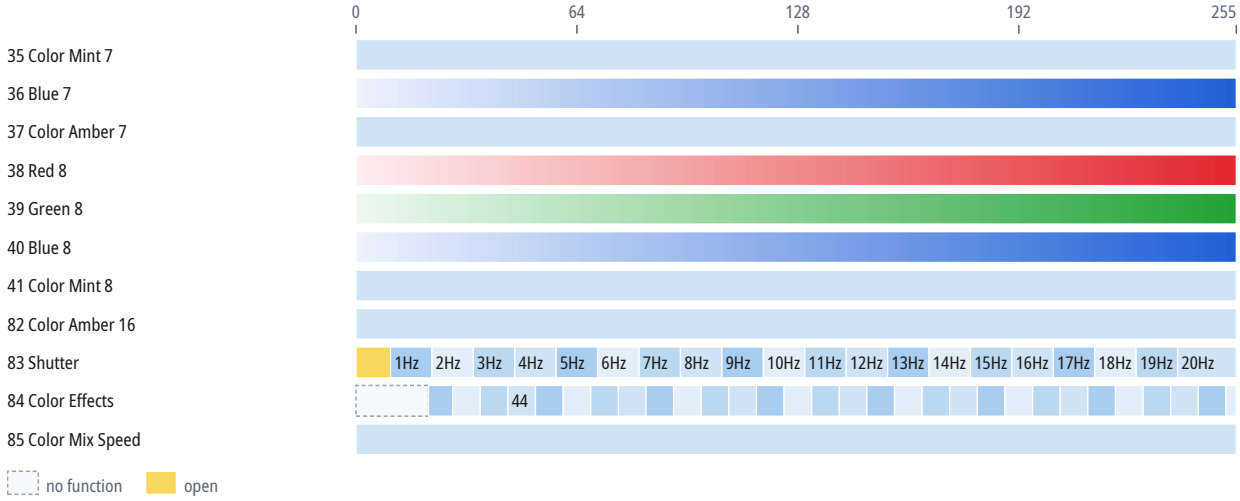
Mode 85 Ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Dimmer Mode above 9; CH 83 Shutter at 0–9 “No Function”.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Mode		Same as CH 2 in the mode “12 Ch” (p. 20)
3	Red 1	0–255	
4	Green 1	0–255	
5	Blue 1	0–255	
6	Color Mint 1	0–255	
7	Color Amber 1	0–255	
8	Red 2	0–255	
9	Green 2	0–255	
10	Blue 2	0–255	
11	Color Mint 2	0–255	
12	Color Amber 2	0–255	
13	Red 3	0–255	
14	Green 3	0–255	
15	Blue 3	0–255	
16	Color Mint 3	0–255	
17	Color Amber 3	0–255	
18	Red 4	0–255	
19	Green 4	0–255	
20	Blue 4	0–255	
21	Color Mint 4	0–255	
22	Color Amber 4	0–255	
23	Red 5	0–255	
24	Green 5	0–255	
25	Blue 5	0–255	
26	Color Mint 5	0–255	
27	Color Amber 5	0–255	

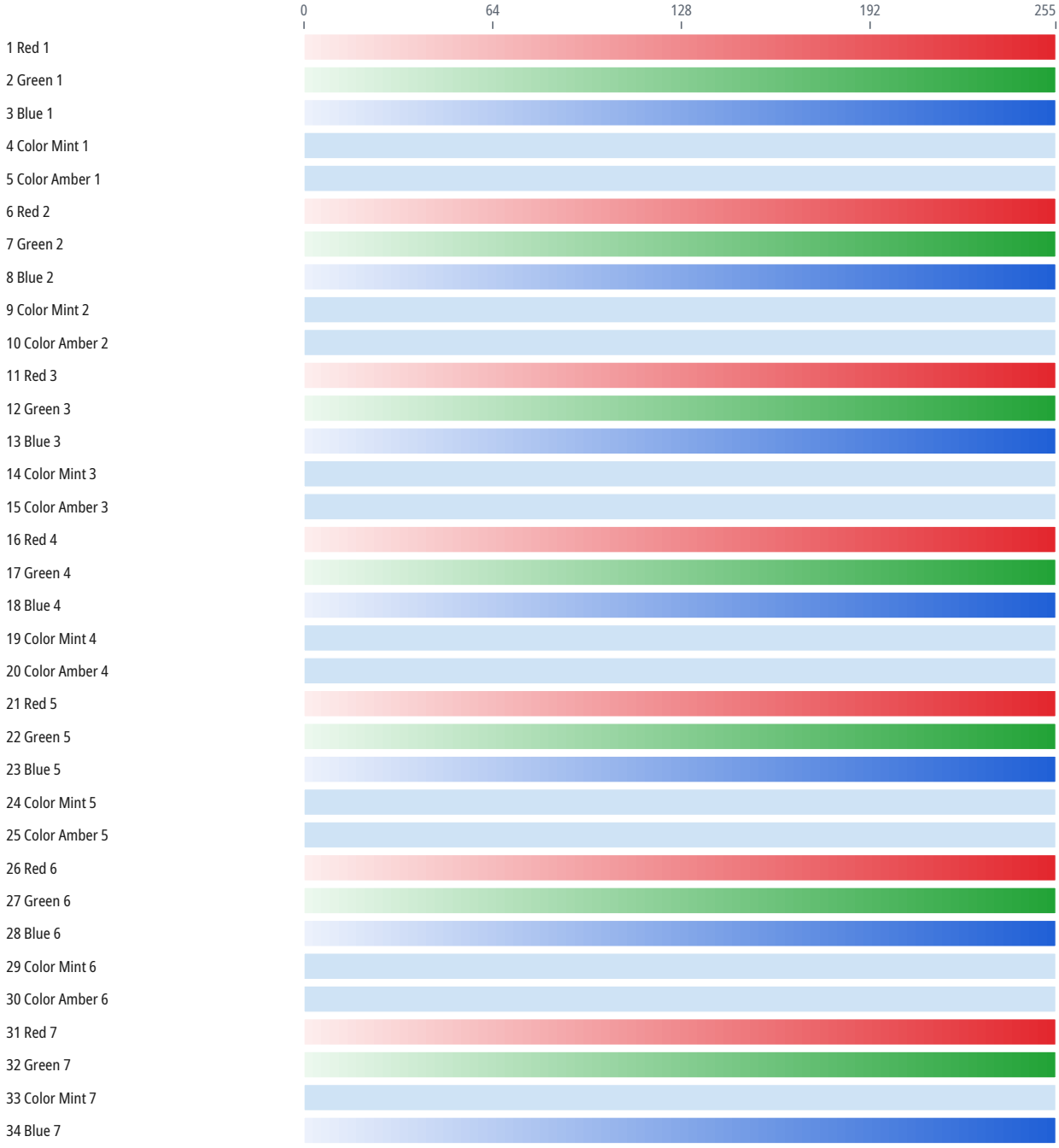
CH	Function	DMX	Description
28	Red 6	0–255	
29	Green 6	0–255	
30	Blue 6	0–255	
31	Color Mint 6	0–255	
32	Color Amber 6	0–255	
33	Red 7	0–255	
34	Green 7	0–255	
35	Color Mint 7	0–255	
36	Blue 7	0–255	
37	Color Amber 7	0–255	
38	Red 8	0–255	
39	Green 8	0–255	
40	Blue 8	0–255	
41	Color Mint 8	0–255	
82	Color Amber 16	0–255	
83	Shutter		Same as CH 8 in the mode “12 Ch” (p. 20)
84	Color Effects		Same as CH 11 in the mode “12 Ch” (p. 21)
85	Color Mix Speed	0–255	

CH 37–81: 9 cells of 5 channels each. Every cell works as cell 1 in the table above (CH 37–41); the table below gives each cell's channel numbers.

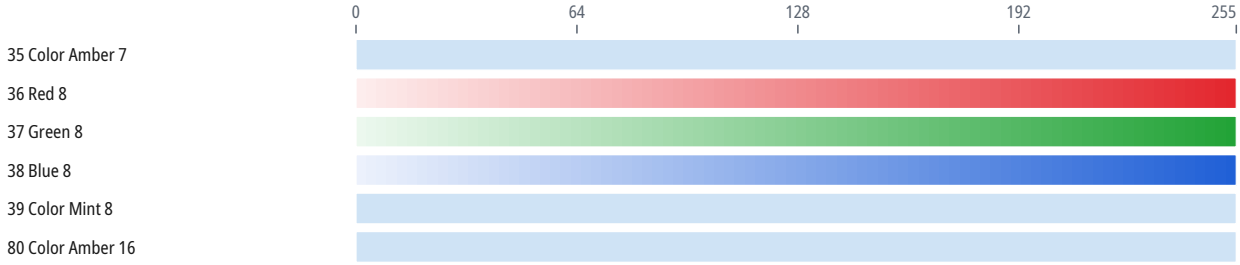
Cell	Color Amber	Red	Green	Blue	Color Mint	Cell	Color Amber	Red	Green	Blue	Color Mint
1	37	38	39	40	41	2	42	43	44	45	46
3	47	48	49	50	51	4	52	53	54	55	56
5	57	58	59	60	61	6	62	63	64	65	66
7	67	68	69	70	71	8	72	73	74	75	76
9	77	78	79	80	81						

Mode 80 Ch -RGBMA- 16 Pixel

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Red 1	0–255	
2	Green 1	0–255	
3	Blue 1	0–255	
4	Color Mint 1	0–255	
5	Color Amber 1	0–255	
6	Red 2	0–255	
7	Green 2	0–255	
8	Blue 2	0–255	
9	Color Mint 2	0–255	
10	Color Amber 2	0–255	
11	Red 3	0–255	
12	Green 3	0–255	
13	Blue 3	0–255	
14	Color Mint 3	0–255	
15	Color Amber 3	0–255	
16	Red 4	0–255	
17	Green 4	0–255	
18	Blue 4	0–255	
19	Color Mint 4	0–255	
20	Color Amber 4	0–255	
21	Red 5	0–255	
22	Green 5	0–255	
23	Blue 5	0–255	
24	Color Mint 5	0–255	
25	Color Amber 5	0–255	
26	Red 6	0–255	
27	Green 6	0–255	
28	Blue 6	0–255	
29	Color Mint 6	0–255	
30	Color Amber 6	0–255	
31	Red 7	0–255	
32	Green 7	0–255	
33	Color Mint 7	0–255	

CH	Function	DMX	Description
34	Blue 7	0–255	
35	Color Amber 7	0–255	
36	Red 8	0–255	
37	Green 8	0–255	
38	Blue 8	0–255	
39	Color Mint 8	0–255	
80	Color Amber 16	0–255	

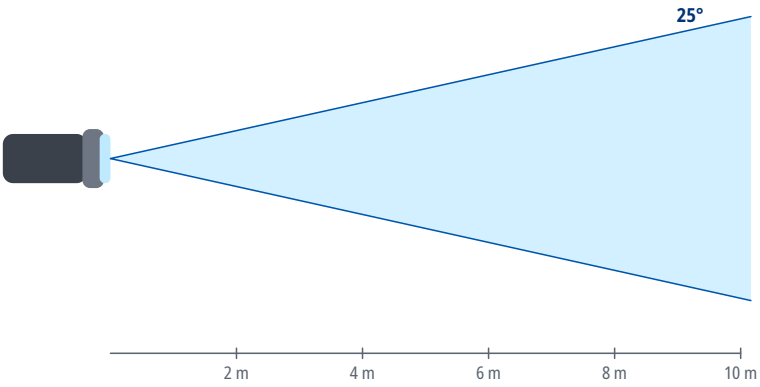
CH 35–79: 9 cells of 5 channels each. Every cell works as cell 1 in the table above (CH 35–39); the table below gives each cell's channel numbers.

Cell	Color Amber	Red	Green	Blue	Color Mint	Cell	Color Amber	Red	Green	Blue	Color Mint
1	35	36	37	38	39	2	40	41	42	43	44
3	45	46	47	48	49	4	50	51	52	53	54
5	55	56	57	58	59	6	60	61	62	63	64
7	65	66	67	68	69	8	70	71	72	73	74
9	75	76	77	78	79						

9 Technical specifications

Parameter	Value
Light source	discharge lamp
Weight	1.4 kg
Operating temperature	0 to 40 °C

Spot diameter



Distance	Ø 25°
2 m	0.89 m
4 m	1.8 m
6 m	2.7 m
8 m	3.5 m
10 m	4.4 m
15 m	6.7 m

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

10 Maintenance and cleaning

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

11 Troubleshooting

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

12 Disposal

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

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

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

Recycle the packaging materials according to their type.